Collegio Carlo Alberto
UNIVERSITÀ DEGLI STUDI DI TORINO

ALLIEVO HANDBOOK 2017 - 2018

Founders

Compagnia di San Paolo

UNIVERSITÀ DEGLI STUDI DI TORINO
“No wonder Lord Keynes insisted that the master economist fulfill a set of attributes more extraordinary than those needed for Knighthood or even Sainthood. He must be a mathematician, historian, statesman, philosopher... He must contemplate the particular in terms of the general, and touch abstract and concrete in the same plight of thought. He must study the present in the light of the past for the purposes of the future. No part of man’s nature or his institution must lie entirely outside his regard. He must be purposeful and disinterested in a simultaneous mood, as aloof and incorruptible as an artist yet sometimes as near the earth as a politician”.

Todd G. Buchholz “New Ideas from Dead Economists: An Introduction to Modern Economic Thought”
Dear Allievi,

it is my greatest pleasure to welcome you at Collegio Carlo Alberto. Your commitment and enthusiasm will be a fundamental part of this enterprise. Here you will have the opportunity to develop your intellectual skills not only through courses, but also through frequent interactions with the researchers of the Collegio.

Welcome once again,

Pietro Garibaldi
Director, Allievi Honors Program

THE COLLEGIO

The Collegio Carlo Alberto was created in 2004. It is a foundation jointly established by the Compagnia di San Paolo and the University of Torino. Its mission is to foster research and teaching in Economics and the Social Sciences, upholding the values and best practices of the international academic community.

The Collegio is a dynamic research community formed by faculty of the University of Torino, full-time junior and senior faculty, hired on the international academic job market, visiting scholars. They conduct interdisciplinary research within the Social Sciences, with both empirical and theoretical emphasis.

As far as education is concerned, the Collegio promotes and coordinates the “Allievi Program.” The Allievi are outstanding students of the University and the Politecnico of Torino who, in addition to fulfilling their university requirements, receive advanced training (courses and seminars) at the Collegio. The program’s goal is to nurture the best talents, directing them towards either the best graduate programs in economics and statistics or successful high-level business careers.

The Collegio also organizes four Master’s degree programs: a Master in Economics, a Master in Data Science for Complex Economic Systems, a Master in Finance, Insurance & Risk Management and a Master in Public Policy and Social Change (the latter two in collaboration with the University of Torino). Finally, two Doctoral Programs of the University of Torino are hosted at the Collegio.

Every two years, the Collegio awards the Carlo Alberto Medal to an outstanding Italian economist under the age of 40. The Medal award ceremony takes place in mid-June alongside the Vilfredo Pareto Lectures, a series of lectures delivered by distinguished scholars in Economics and Social Sciences.

The Collegio also organizes several outreach events addressed to the general public. The Collegio Aperto Lectures are a series of lectures on current economic, social and political events, given by leading international scholars and professionals. The annual Onorato Castellino Lecture, also featuring distinguished scholars and public intellectuals, honors the memory of the first President of the Collegio and member of the research unit CeRP, who bestowed the institution his vision, integrity, and grace. Besides the events listed above, research interaction with the international community is fostered by the seminar series and numerous conferences that the Collegio organizes during the academic year.

For those who are interested in Economics, Finance and other Social Sciences, the Collegio is a unique research and educational opportunity, spanning academic research and public policy.
ABOUT THE FOUNDERS

Compagnia di San Paolo
The Compagnia di San Paolo is one of the largest foundations in Europe. It pursues socially useful objectives in order to promote cultural, civil and economic development with the income from its assets.

The Compania operates in the broad areas in which its institutional activity is organized: as research and education, the arts, cultural heritage and activities, health, and social policy.

The Compagnia’s work is carried out through grants and projects directly managed by its own organisation and instrumental bodies, including the Collegio Carlo Alberto.

www.compagniadisanpaolo.it

Università di Torino
The University of Turin is one of the most ancient and prestigious Italian Universities.

Hosting about 70,000 students, 4,000 academic, administrative and technical staff, 1,800 post-graduate and post-doctoral students and with 120 buildings in different areas in Turin and in key places in Piedmont, the University of Turin can be considered as "city-within-a-city", promoting culture and producing research, innovation, training and employment.

The University of Turin is today one of the largest Italian Universities, open to international research and training. It carries out scientific research and organizes courses in all disciplines, except for Engineering and Architecture. It is an integral part of the community, acting for reviving urban and suburban areas, promoting cultural interaction, social integration and development, encouraging dialogue and insight into current realities.

www.unito.it
The Allievi Program of the Collegio Carlo Alberto is an "honors" program that enhances the education of outstanding students from the University and the Politecnico of Torino. The objective is to help them succeed in their international academic or professional career. The Allievi attend courses and tutorials at the Collegio that are in addition to the students' university requirements. The Allievi Program thus complements and strengthens the preparation students get during their college years.

The Allievi of the Collegio Carlo Alberto are enrolled either in a laurea triennale or in a laurea magistrale in economics and related subjects at the University or at the Politecnico of Torino. Related subjects are widely defined and include, for instance, Mathematics, Statistics, Engineering and Political Science. These students are expected to fulfill their university requirements, as well as to participate in additional activities (classes and tutorials) at the Collegio.

The admission to the Allievi Program is purely based on merit. The Collegio awards a scholarship and provides a study station to each student admitted to the program. The Allievi interact on a daily basis with faculty members, Fellows and Affiliates of the Collegio. Moreover, they have access to the Collegio's facilities and scientific activities, such as seminars, conferences, masters and doctoral courses. The studies of each Allievo are supervised by a mentor assigned upon enrollment.

The Allievi are subdivided into:
- **Junior Allievi**: these are students enrolled in a laurea triennale program at the University or at the Politecnico of Torino. In addition to the university degree, the Junior Allievi who successfully fulfill the Collegio requirements are awarded the Allievi Diploma from the Collegio.
- **Senior Allievi**: these are students enrolled in a laurea magistrale program at the University or at the Politecnico of Torino. In addition to the university degree, the Senior Allievi who successfully fulfill the Collegio requirements are awarded the Master in Economics from the Collegio. Alternatively, depending on the Allievi’s interests and inclinations, and in agreement with the Program Director, specific study programs may be designed which then lead to the award of the Master in one of the following three subjects: Economics and Complexity; Financial Economics; Statistics and Applied Mathematics.

**ORGANIZATION OF STUDIES**
All lectures held at the Collegio are delivered in English. Courses are scheduled in 12-weeks semesters. The first semester runs from the last week of September, whereas the second semester starts in mid February.

The following types of courses are offered:
- **Standard semester courses**: these courses meet twice a week and last for 30-40 hours overall. The average class size is of 15 students.
• **Directed studies**: a faculty member individually advises an Allievo on a mutually agreed topic.
• **Tutorials**: a faculty member advises a small group of Allievi on a topic of mutual interest.
• **Seminar courses**: the instructor selects a suitable number of seminars in the Collegio’s seminar series relevant for the Allievi’s training; the Allievi are then expected to attend these seminars, to meet the speakers, and to discuss the papers presented at the seminars with the instructor.

For each course, the instructor distributes a syllabus detailing the topics to be covered, office hours and grading policy. Class attendance is compulsory. At the end of each course there is a written test, and the grade earned by the Allievo is reported in her/his academic records at the Collegio (both in thirtieth, according to the standard Italian university grading system, and in letters; see the conversion table at the end of the section with grades explanation). Subject to seating availability and class size limit, the Program Director can authorize students of other institutions to attend semester courses at the Collegio. The exchange students are expected to be honors students at their home institution.

**DEGREE REQUIREMENTS**

The Allievi must enroll either in a laurea triennale or in a laurea magistrale program at the University or at the Politecnico of Torino. The additional activities of Junior and Senior Allievi at the Collegio last, respectively, for three and two years.

Upon enrollment, the Program Director nominates a mentor who supervises each Allievo’s studies at the Collegio. The mentor is a faculty member of the Collegio. At the beginning of each academic year, the Allievo prepares a study program for the given year in accordance with her/his mentor. Such a program must comply with the specific rules set below and is then submitted, for approval, to the Program Director.

If an Allievo fails an exam at the Collegio, the Program Director can, at her/his discretion, ask the Allievo to either quit the program or take the exam again during the following academic year.

At the end of each academic year, an Allievo is expected to complete at least 75% of her/his required university coursework (measured in credits), with an overall grade average of at least 27/30. Otherwise, the Program Director can, at her/his discretion, ask the Allievo to quit the program.

The Allievo who successfully completes her/his course requirements both at the University and at the Collegio with an overall average grade of at least 27/30 is admitted to the final examination.

**JUNIOR ALLIEVI**

The **program of studies** of a Junior Allievo must include at least two courses per year, for an overall course load of at least 60 hours, to be agreed with the Program Director among the courses offered at the Collegio.

For the Junior Allievi, the **final examination** consists of an oral discussion where the Allievo discusses an essay that she/he wrote on a subject of her/his choice. The Allievo’s essay is
expected to demonstrate that she/he fruitfully attended the Collegio’s courses and that her/his preparation is adequate for undertaking the Master’s degree program offered in the second level of the Allievi Program - *laurea magistrale*. The essay is supervised either by a faculty member or by a fellow of the Collegio. Based on the oral examination and on the Allievo’s curriculum of studies at the Collegio, the Final Examination Committee, composed by three faculty members, decides whether or not to award the Diploma to the Allievo (with or without distinction). The final examination cannot be taken more than once and must take place by the month of December immediately following the official end of the *laurea triennale*. Otherwise, the Allievo must quit the program and the Diploma cannot be awarded.

The Junior Allievi who earn the degree with distinction are automatically admitted to the Master’s program as Senior Allievi. Junior Allievi who earn the degree without distinction can be admitted to the Master’s program only via the regular Senior Allievi admission procedure.

**SENIOR ALLIEVI**

The *program of studies* of a Senior Allievo must include at least three courses per year, for an overall course load of at least 90 hours, to be agreed with the Program Director among the courses offered at the Collegio.

For the Senior Allievi, the *final examination* consists of an original thesis to be written on a subject of her/his choice. Its contents are presented in a scientific seminar, called thesis defense, to an *ad hoc* Thesis Committee. The Allievi are expected to master the recent scientific literature on the topic and to give some original insight into the problem. The thesis work is supervised either by a faculty member or by a fellow of the Collegio. The Allievo is expected to communicate to the Program Director the name of her/his supervisor at the latest by the end of the third semester. Once nominated, the supervisor replaces the mentor. The Thesis Committee acts on behalf of the teaching board and consists of three members nominated by the Program Director among the Board’s members.

Based on the quality of the written thesis and of the seminar, the Thesis Committee decides whether to recommend to the Collegio’s Director to award, with or without distinction, the Master to the Allievo (the distinction requires a unanimous vote of the Committee). The supervisor is expected to attend the final examination seminar and, before the seminar and behind closed doors, to present the Allievo and her/his achievements to the Committee. However, she/he does not participate in the deliberations of the Committee regarding her/his advisee. The thesis defense is open to public.

The final examination cannot be taken more than once and must take place by the month of May immediately following the end of the *laurea magistrale*. Otherwise, the Allievo must quit the program, and the Degree cannot be awarded. Based on the Committee’s recommendation, the Program Director decides whether the Allievo can be awarded the Degree with or without distinction. The Collegio officially awards the Degrees to the Allievi in a public graduation ceremony.
After graduation, the Senior Allievi become Alumni of the Collegio. As such, they can join the Alumni Association, they are invited to all public ceremonies and events at the Collegio and they have access to the Collegio's facilities and resources.

**FINANCIAL AID**

The Collegio may provide an Allievo with individual scholarships that contribute to:
- fees and tuitions due to the University;
- lodging (only for students non-resident in the Piedmont area);
- teaching and research material (such as books and software) related to the activities performed at the Collegio.
  
Lunch meals are provided for all students.

Allievi from outside the Piedmont Region are typically offered a single room accommodation at the Collegio “R. Einaudi” (http://www.collegioeinaudi.it/), a renowned university residence, which provides high standard student accommodation since 1935.

The Program Director can also award funds to the Allievi to cover their participation to conferences and workshops relevant for their final dissertations.

**ADMISSION**

Any Italian or foreign student eligible to enroll or already enrolled in a laurea triennale or magistrale in economics or related subjects at the University and at the Politecnico of Torino is entitled to apply to the Allievi Program. Related subjects are widely defined and include, for instance, Mathematics, Statistics, Engineering and Political Science.

A call for candidates for a given academic year is typically available starting from February of the previous year.
## Conversion Table and Grades’ Explanation

<table>
<thead>
<tr>
<th>Grades on a 30-Point Scale</th>
<th>Letter Grades</th>
<th>GPA</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 cum laude</td>
<td>A+</td>
<td>4.0</td>
<td>Outstanding</td>
</tr>
<tr>
<td>30</td>
<td>A</td>
<td>4.0</td>
<td>Excellent</td>
</tr>
<tr>
<td>29</td>
<td>A</td>
<td>4.0</td>
<td>Excellent</td>
</tr>
<tr>
<td>28</td>
<td>A-</td>
<td>3.7</td>
<td>Very Good</td>
</tr>
<tr>
<td>27</td>
<td>A-</td>
<td>3.7</td>
<td>Very Good</td>
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<tr>
<td>26</td>
<td>B+</td>
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</tr>
<tr>
<td>25</td>
<td>B</td>
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<tr>
<td>23</td>
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</tr>
<tr>
<td>22</td>
<td>C+</td>
<td>2.3</td>
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<tr>
<td>21</td>
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<td>2.0</td>
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<tr>
<td>20</td>
<td>C</td>
<td>2.0</td>
<td>Satisfactory</td>
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<tr>
<td>19</td>
<td>C-</td>
<td>1.7</td>
<td>Barely Satisfactory</td>
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<tr>
<td>18</td>
<td>D</td>
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<td>0-17</td>
<td>F</td>
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<td>Fail</td>
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**CALENDAR**

The Allievi’s courses are organized according to the calendar below:

<table>
<thead>
<tr>
<th>INTRODUCTORY COURSES (3 weeks)</th>
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<tbody>
<tr>
<td>Classes</td>
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<tr>
<td>Exam Session</td>
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</tbody>
</table>

<table>
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<tr>
<th>FIRST SEMESTER (10 weeks)</th>
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<tbody>
<tr>
<td>Classes</td>
</tr>
<tr>
<td>Exam Session</td>
</tr>
<tr>
<td>Holiday, Classes Suspended</td>
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</tbody>
</table>

<table>
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<tr>
<th>SECOND SEMESTER (11 weeks)</th>
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<tbody>
<tr>
<td>Classes</td>
</tr>
<tr>
<td>Exam Session</td>
</tr>
<tr>
<td>Holiday, Classes Suspended</td>
</tr>
</tbody>
</table>
Initial placement of students who completed the Allievi Program after 2009:

Gloria Allione PhD student in Economics, University of Pennsylvania, Philadelphia (USA)
Matteo Assandri Magneti Marelli S.p.A., Torino
Marco Ballesio PhD student in Uncertainty Quantification, King Abdullah University of Science and Technology, Saudi Arabia
Cecilia Balocchi PhD student in Statistics, Wharton School, University of Pennsylvania, Philadelphia (USA)
Valentina Barbero Reale Mutua Assicurazioni, Torino
Alice Battiston PhD student in Economics, University College London, London (UK)
Paolo Baudissone PhD student in Operations Research, Columbia University, New York (USA)
Jolanda Beraldi Ernst&Young - Actuarial Services, Milan
Matteo Bizzarri Accenture, Milano
Carlotta Bonsignori Frontier Economics, London (UK)
Marta Bruschi Banca Sella, Biella
Mario Cannella PhD student in Economics, Northwestern University, Evanston, IL (USA)
Giampaolo Caramellino PhD student in Economics, London School of Economics, London (UK)
Gabriele Carcaiso PhD student in Economics, Istituto Universitario Europeo, Fiesole (FI)
Oriana Cesari KPMG, Torino
Alberto Ciancio PhD student in Economics, University of Pennsylvania, Philadelphia (USA)
Mattia Ciofalo PhD student in Statistics, Carnegie Mellon University, Pittsburgh (USA)
Jacopo Cicatiello Fiat Chrysler Finance S.p.A., Torino
Francesco Cosentino PhD student in Computer Science, University of Oxford, Alan Turing Institute, London (UK)
Marco D'Aurelio BlueThink, Milano
Isabella David PhD student in Economics, University College London, London (UK)
Federico De Andrea PhD student in Economics, University of Wisconsin, Madison (USA)
Alessandro De Sanctis Financial Research Division, European Central Bank, Frankfurt (Germany)
Gianluca Detommaso PhD student in Applied Mathematics, University of Bath, Bath (UK)
Giulia Devecchi Reale Mutua Assicurazioni, Torino
Giuseppe Di Benedetto PhD student in Statistics, Oxford-Warwick Statistics Programme (OxWaSP), Oxford and Coventry (UK)
Claudio Di Loreto Fondaco SGR, Torino
Mattia Duma Research Analyst, European Central Bank, Frankfurt (Germany)
Simone Fabiole-Nicoletto PhD student in Economics, London School of Economics, London (UK)
Marta Fana PhD student in Economics, SciencesPo Paris (France)
Augusto Fasano  PhD student in Statistics, Università Commerciale Luigi Bocconi, Milano
Ilaria Febbo  Directorate General Statistics, European Central Bank, Frankfurt (Germany)
Cecilia Ferrando  Fellow, Master of Science in Computational Design, Carnegie Mellon University, Pittsburgh (USA)
Federico Ferrari  PhD student in Statistics, Duke University, Durham (USA)
Riccardo Fogliato  PhD student in Statistics, Carnegie Mellon University, Pittsburgh (USA)
Alberto Frascarolo  Ernst & Young, Milano
Gianni Ghetti  PriceWaterhouseCoopers, Torino
Marco Ghiani  PhD student in Economics, Boston College, Boston (USA)
Michela Giorcelli  PhD student in Economics, Stanford University, Palo Alto (USA)
Matteo Giordano  PhD student in Mathematical Statistics, University of Cambridge (UK)
Alessandro Grande  PhD student in Statistics, Columbia University, New York (USA)
Francesco Grande  PhD student in Mathematics, Berlin Mathematical School, Berlin (Germany)
Fabio Iannuzzelli  PhD student in Economics and Finance, CEMFI, Madrid (Spain)
Aleksandra Kolndrekaj  Master Fellow in Public Policy and Development, Paris School of Economics, Paris (France)
Ilaria Laganà  Italian Embassy, Beirut (Lebanon)
Mattia Landolfi  Quality Manager - Procter & Gamble, Gattatico (RE)
Fabrizio Lecci  PhD student in Statistics, Carnegie Mellon University, Pittsburgh (USA)
Vincenzo Maccarrone  PhD student in Industrial Relations, Smurfit School of Business, University College Dublin (Ireland)
Roberto Marfè  PhD student in Finance, Swiss Finance Institute and HEC, Université de Lausanne (Switzerland)
Chiara Margaria  PhD student in Economics, Yale University, New Haven (USA)
Giorgio Martini  PhD student in Economics, Graduate School of Business, Stanford University, Palo Alto (USA)
Lorenzo Masoero  PhD student in Electrical Engineering and Computer Science, MIT, Boston (USA)
Marco Masoero  PhD student in Mathematical Finance, Paris-Dauphine (France)
Diego Mattone  Ernst & Young, Milano
Alessandro Milazzo  PhD student in Stochastic Analysis and Mathematical Finance, Imperial College, London (UK)
Andrea Maresi  Technology Consulting Analyst, Accenture, Milano
Silvia Montagna  PhD student in Statistics, Duke University, Durham (USA)
Vito Musci  MBA Fellow, Collège des Ingénieurs, Paris (France)
Enrico Nano  Bruegel, Brussels
<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consuelo Nava</td>
<td>PhD student in Statistics and Applied Maths, Università di Torino, Torino</td>
</tr>
<tr>
<td>Federica Odifreddi</td>
<td>Policy Adviser, HM Treasury, London (UK)</td>
</tr>
<tr>
<td>Noemi Oggero</td>
<td>Global Financial Literacy Excellence Center, The George Washington University School of Business, Washington, DC (USA)</td>
</tr>
<tr>
<td>Francesca Panero</td>
<td>PhD student in Statistics, Oxford-Warwick Statistics Programme (OxWaSP), Oxford and Coventry (UK)</td>
</tr>
<tr>
<td>Giulia Pasquale</td>
<td>ERSEL Gestione Patrimoni, Torino</td>
</tr>
<tr>
<td>Alberto Pellicoli</td>
<td>PhD student in Finance, London School of Economics, London (UK)</td>
</tr>
<tr>
<td>Marco Pelosi</td>
<td>PhD student in Finance, London School of Economics, London (UK)</td>
</tr>
<tr>
<td>Luca Perdoni</td>
<td>PhD student in Economics, Yale University, New Haven (USA)</td>
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<tr>
<td>Valerio Perrone</td>
<td>PhD student in Statistics, Oxford-Warwick Statistics Programme (OxWaSP), Oxford and Coventry (UK)</td>
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<td>Federico Petri</td>
<td>Aviva Assicurazioni, Milano</td>
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<td>Federico Petrini</td>
<td>Reale Mutua Assicurazioni, Torino</td>
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<tr>
<td>Lorenzo Piccinini</td>
<td>PhD student in Economics, Università degli Studi di Siena, Siena</td>
</tr>
<tr>
<td>Stefano Pietrosanti</td>
<td>PhD student in Economics, University of Pennsylvania, Philadelphia (USA)</td>
</tr>
<tr>
<td>Deborah Pistorio</td>
<td>PhD student in Economics, University College London, London (UK)</td>
</tr>
<tr>
<td>Luciano Pomatto</td>
<td>PhD student in Managerial Economics and Strategy, Kellog School of Management, Northwestern University, Evanston (USA)</td>
</tr>
<tr>
<td>Alberto Racca</td>
<td>McKinsey &amp; Company, Milano</td>
</tr>
<tr>
<td>Sarah Raviola</td>
<td>PhD student in Economics, Duke University, Durham (USA)</td>
</tr>
<tr>
<td>Lorenzo Rimella</td>
<td>PhD student in Statistics, University of Bristol (UK)</td>
</tr>
<tr>
<td>Giorgia Romagnoli</td>
<td>PhD student in Economics, New York University, New York (USA)</td>
</tr>
<tr>
<td>Michele Rosenberg</td>
<td>PhD Student in Economics, Universidad Carlos III, Madrid (Spain)</td>
</tr>
<tr>
<td>Elisa Rubbo</td>
<td>PhD student in Economics, Harvard University, Cambridge (USA)</td>
</tr>
<tr>
<td>Maddalena Saccone</td>
<td>Ferrero, Alba (CN)</td>
</tr>
<tr>
<td>Alexandra Scudo</td>
<td>PhD student in Economics, Stockholm School of Economics, Stockholm (Sweden)</td>
</tr>
<tr>
<td>Claudio Senatore</td>
<td>Olivieri e Associati Acturial and Financial Consulting, Roma</td>
</tr>
<tr>
<td>Matteo Sesia</td>
<td>PhD student in Statistics, Stanford University, Palo Alto (USA)</td>
</tr>
<tr>
<td>Katia Sette</td>
<td>Ernst &amp; Young, Torino</td>
</tr>
<tr>
<td>Emilia Soldani</td>
<td>PhD student in Economics, New York University, New York (USA)</td>
</tr>
<tr>
<td>Matteo Sordello</td>
<td>PhD student in Statistics, Wharton School, University of Pennsylvania, Philadelphia (USA)</td>
</tr>
<tr>
<td>Federico Tadei</td>
<td>PhD student in Social Sciences, California Institute of Technology, Pasadena (USA)</td>
</tr>
<tr>
<td>Federico Tagliati</td>
<td>PhD student in Economics, University College London, London (UK)</td>
</tr>
</tbody>
</table>
ALUMNI ASSOCIATION

The Alumni Association was launched in 2014. Its mission is to foster the academic excellence of the Collegio Carlo Alberto and of the Allievi Program at an international level by promoting the communication between its members, the Collegio and its friends.

The Alumni Association aims at assisting the Allievi and the Alumni of the Collegio by providing a strong and beneficial network over which knowledge, information, academic and professional experiences can be shared with other members.

The Alumni Association also contributes to a successful transition of the Allievi of the Collegio towards top level international careers and Ph.D. programs by organizing meetings and conferences.

More information can be found on:
www.alumni.carloalberto.org

Alumni Association

Collegio Carlo Alberto
UNIVERSITÀ DEGLI STUDI DI TORINO
<table>
<thead>
<tr>
<th>Name</th>
<th>Name</th>
</tr>
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<tbody>
<tr>
<td>Ayoub Amil</td>
<td>Giulia Oddone</td>
</tr>
<tr>
<td>Filippo Ascolani</td>
<td>Marco Pontin</td>
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<tr>
<td>Martino Banchio</td>
<td>Pietro Ramella</td>
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<td>Riccardo Battiston</td>
<td>Gaia Rigodanza</td>
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<td>Enrico Maria Belliardo</td>
<td>Laura Risso</td>
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<td>Francesco Beraldì</td>
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<td>Samuele Bertaina</td>
<td>Alex Antony Saja</td>
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<td>Gian Luca Salvarani</td>
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<tr>
<td>Lucia Donato</td>
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<td>Cedomir Malgieri</td>
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<td>Paolo Jonica Nova</td>
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AYOUB AMIL

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www.carloalberto.org/education/allievi/students
Date of birth: 12/1/1994

EDUCATION
• 2014-current: Allievo (honors student), Collegio Carlo Alberto
• 2016-current: Student, M.Sc. in Stochastics and Data Science (Laurea Magistrale), Università di Torino. Graduation expected in 2018
• 2013-2016: B.Sc. in Economics - “Banca, borsa e assicurazione” (Laurea Triennale), Università di Torino. 110/110 cum laude
• 2013-2016: B.Sc. in Economics - “Banca, borsa e assicurazione” (Laurea Triennale), Università di Torino. 100/100 cum laude
• 2008-2013: Istituto Tecnico Commerciale “Erasmo da Rotterdam” (technical institute), Nichelino (TO). Grade 98/100

AWARDS AND SCHOLARSHIPS
• June 2017: ABS 2017, Summer School in Applied Bayesian Statistics, Villa del Grumello, Como
• School grant “Erasmo da Rotterdam” obtained in 2009 and 2010
• 2013: Participation in "Imprese in Rete per competere" at "Banca Popolare di Novara", Torino
• 2008-2013: Participation in several editions of “Olimpiadi della Matematica”

WORK EXPERIENCE
• Tutor for High School students in Nichelino (Torino)
• 2009-2012: Private tutorship for IIS “Erasmo da Rotterdam” students during school year
• 2009: Staff member in a children’s camp (5-11 years old)

LANGUAGES
• Italian: Mother tongue
• English: Good knowledge
• French: Good knowledge
• Arabic: Basic knowledge

COMPUTER SKILLS
• Competent in the following programming languages: R, Python, LateX
• Competent in both Microsoft Windows and Mac OS X environments
• European Computer Driving License, ECDL (2013)

OTHER SKILLS AND INTERESTS
• Sports practiced: Football, boxing
• Other interests: Politics, travelling
EDUCATION
• 2014–Current: Allievo (honors student), Collegio Carlo Alberto
• 2017–Current: Student, M.Sc. in Stochastics and Data Science. Graduation expected in 2019
• 2014–2017: B.Sc. in Mathematics for Finance and Insurance. Grade: 110/110 cum laude
• 2009–2014: Liceo Classico “Vincenzo Gioberti” (high school with emphasis on humanities), Torino. Grade 100/100 cum laude

AWARDS AND SCHOLARSHIPS
• 2017: Participation to “Advanced Statistics and Data Mining”, Summer School in Madrid
• 2016: Participation in “Partial differential equations” summer school in Lisbon
• 2015: Selected for participation in “Alpha-class”, Progetto Diderot, Fondazione Crt, 3rd-ranked team
• 2014: 2nd place at “Certamen Augusteum Taurinense”, a Latin translation contest
• 2013–2014: Participation to a political philosophy seminar at “Centro Einaudi”
• 2013: Participation to “Hermes”, a Latin and Ancient Greek translation contest
• 2012: Participation to “Sandy Spring Friend College” summer program in Washington
• 2010: Participation to “18° Convegno Interregionale della Stampa Studentesca”

WORK EXPERIENCE
• 2017: Tutor for younger student in Numerical Analysis and Probability Calculus, Università di Torino
• 2017: Teaching Assistant for a course in Matlab, Università di Torino
• 2015–2017: Representative student for Maths Department
• 2015–Current: Representative student of Mathematics Department
• 2013–2014: Latin and Ancient Greek tutoring for High School students
• 2013: Apprenticeship at “Building S.p.A.”

LANGUAGES
• Italian: Mother tongue
• English: 2013 FCE (First Certificate of English, level B2), grade B

COMPUTER SKILLS
• Programming languages: C++, Python, R, Java (basics)
• Competent in Microsoft Windows, Mac OS, Linux/Unix environment
• Programming languages: C++, Phyton
• Good knowledge of math software: Matlab, Sas
• 2014 ECDL (European Computer Driving Licence) full

OTHER SKILLS AND INTERESTS
• Political philosophy, reading, playing soccer, rowing
MARTINO BANCHIO

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Date of birth: 23/10/1994

EDUCATION

• 2014-current: Allievo (honors student), Collegio Carlo Alberto
• 2016-current: Student, M.Sc. in Mathematics (Laurea Magistrale), Università di Torino. Graduation expected in 2018
• 2013-2016: B.Sc. in Mathematics (Laurea Triennale), Università di Torino. Grade 110/110 cum laude
• 2008-2013: Liceo Classico “Silvio Pellico” (high school with emphasis on humanities), Cuneo. Grade 100/100

AWARDS AND SCHOLARSHIPS

• 2014: Participation in summer school Alfaclass of Progetto Diderot, Torino
• 2006-2014: Participation in Math games of Università Commerciale “Bocconi”, Milano
• 2013: Scholarship Istituto Musicale “A. Vivaldi”, Busca (CN)
• 2012: Participation in summer school “Scientific Summer Academy” of Agorà Scienza, Torino
• 2011: Participation in a three months exchange program of Intercultura in Surgut, Russia

WORK EXPERIENCE

• 2016-2017: Tutor at Università di Torino for the course: Geometry 2 (general topology, projective geometry)
• 2015-2016: Tutor at Università di Torino for the following courses: Precorso, Basi di Informatica
• 2013: Participation in a three month work experience in Cork, Ireland, organised by CRT

LANGUAGES

• Italian: Mother tongue
• English: Good knowledge
• Russian: Good speaking skills
• French: Basic knowledge

COMPUTER SKILLS

• Good knowledge of Microsoft Word, Excel, Powerpoint, Photoshop and InDesign
• Basic knowledge of Maple
• Programming, scripting and markup languages: C, C++, some Assembly

OTHER SKILLS AND INTERESTS

• Playing the piano, reading, cinema, juggling, cycling, boardgames, IT
EDUCATION
• 2014-current: Allievo (honors student), Collegio Carlo Alberto
• 2015-current: Student, M.Sc. in Economics (Laurea Magistrale), Università di Torino. Graduation expected in 2017
• 2012-2015: Student, B.Sc. in Economics - "Banca Borsa e Assicurazione" (Laurea Triennale), Università di Torino. Grade 110/110 cum laude
• 2007-2012: Liceo Scientifico "Galileo Ferraris" (high school with emphasis on Sciences), Torino. Grade 87/100.

AWARDS AND SCHOLARSHIPS
• 2013: One month studying holiday in Cambridge, UK
• 2007-2012: Participation in several editions of "Mathematics Olympiads"

WORK EXPERIENCE
• September 2017-current: European Central Bank Traineeship in DG Statistis - Supervisory Data Management Division
• 2010-2014: Latin, Mathematics and Economics tutoring for students of secondary school and enrolled to the first year of university

LANGUAGES
• Italian: Mother tongue
• English: 2013 BEC (Business English Certification, level B2), grade C

COMPUTER SKILLS
• Competent in both Microsoft Windows and Mac OS X environments
• 2015: ECDL certificate
• Basic knowledge of EViews
• Competent in LaTeX (good)

OTHER SKILLS AND INTERESTS
• Sports: Waterpolo (taking part in national competitions, 2007-2011), boxing
• Other interests: Cinema, Astronomy
ENRICO MARIA BELLARDO

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Piazza Arbarello, 8-10122 Torino, Italy
enrico.belliardo@carloalberto.org
www.carloalberto.org/education/allievi/students
Date of birth: 28/5/1994

EDUCATION
• 2014-current: Allievo (honors student), Collegio Carlo Alberto
• 2016-current: M.Sc in Stochastics and Data Science, Università di Torino
• 2013-2016: B.Sc. in Economics (Laurea Triennale), Università di Torino. Grade 110/110 cum laude
• 2008-2013: Liceo Scientifico “Giuseppe Peano” (high school with emphasis on Sciences), Cuneo. Grade 100/100 cum laude

AWARDS AND SCHOLARSHIPS
• 2017: Participation in summer school in Applied Bayesian Statistics, Villa del Grumello, Como
• 2010-2013: Participation in several editions of “Math Olympics” and “Physics Olympics”
• 2010-2011: Participation in 2 editions of “Montefiore Conca Piano Masterclass” (Rimini)
• 2007-2011: Participation in several Piano competitions in Piedmont and Liguria (always winning the 1st or 2nd prize)

WORK EXPERIENCE
• 2014: Piano and Music teaching to young students
• 2012-2013: Math and Physics tutoring for High School students

LANGUAGES
• Italian: Mother tongue
• English: Good knowledge

COMPUTER SKILLS
• Knowledge of Python and R
• Competent in both Microsoft Windows and Mac OS X environments
• Proficient in Microsoft Word, Excel and Powerpoint
• 2013: ECDL Full

OTHER SKILLS AND INTERESTS
• Music (admission to undergraduate degree in Pianoforte, Conservatorio “G. Verdi”, Torino. Grade 99/100; Compimento Inferiore in Pianoforte, grade 10/10)
• Hobbies: Skiing, swimming
EDUCATION
- 2014–current: Allievo (honors student), Collegio Carlo Alberto
- 2014–current: Student, B.Sc. in Economics (Laurea Triennale), Università di Torino. Graduation expected in 2017
- 2009–2014: Liceo Scientifico Statale "Gobetti-Segrè" PNI (high school with emphasis on sciences and mathematics), Torino. Grade: 100/100.

AWARDS AND SCHOLARSHIPS
- 2016: Summer School in Entrepreneurship (with scholarship), European Innovation Academy
- 2015: Summer School in Analysis and Management of Financial Risk, London School of Economics
- 2013: Winner of the EU sponsored contest "E-gomotion", Universidade Politécnica de Cataluña
- 2009-2013: Participation in five editions of the "Olimpiadi della Matematica" and classification to the provincial competition

WORK EXPERIENCE
- 2015–current: Freelance Journalist (La Stampa, Quadrante Futuro, Neos Magazine)

LANGUAGES
- Italian: Mother tongue
- English: Ielts: 7.5 (level C1), 2016
- French: basic knowledge

COMPUTER SKILLS
- Competent in Microsoft Windows
- 2014: European Computer Driving License ECDL-Core Full

OTHER SKILLS
- Sailing at competitive level, participating to the national and international competitions
SAMUELE BERTAINA

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Date of birth: 21/6/1994

EDUCATION
- 2016-current: Allievo (honors student), Collegio Carlo Alberto
- 2016-current: Student, M.Sc. in Stochastics and Data Science (Laurea Magistrale), Università di Torino. Graduation expected in 2018
- 2013-2016: B.Sc. in Mathematics for Finance and Insurance (Laurea Triennale), Università di Torino. Grade 110/110 cum laude
- 2008-2013: Istituto Tecnico Commerciale “Luigi Einaudi" (high school with emphasis on finance and computer programming), Alba (CN). Grade 100/100

AWARDS AND SCHOLARSHIPS
- 2017: Participation in Applied Bayesian Statistics summer school on “Modeling Spatial and Spatio-Temporal Data with Environmental Applications”, Villa del Grumello, Como
- 2013: Winner of competition “Diventiamo Cittadini Europei"
- 2008-2013: Participation in several editions of “Mathematics Olympiads” and “Informatics Olympics”

WORK EXPERIENCE
- 2016: Part-time collaboration at Università di Torino in administrative offices and Disabled and DSA Students Office
- 2014-2015: Part-time collaboration at Università di Torino. Teaching Assistant for Informatics, first-year course of bachelor's degree in Mathematics for Finance and Insurance
- 2011-current: Summer and weekend jobs as waiter and cook
- 2010: Internship in “Agenzia AXA di Ferrero Assicurazioni" in Alba

LANGUAGES
- Italian: Mother tongue
- English: 2013 FCE (First Certificate of English, level B2)
- French: Basic knowledge

COMPUTER SKILLS
- 2010: ECDL Certificate (European Computer Driving Licence)
- Good knowledge of MATLAB, SAS and R
- Excellent knowledge of C++
- Programming, scripting and markup languages: LaTeX, Java and Joomla

OTHER SKILLS AND INTERESTS
- Sports: Football (football referee), cycling, basketball, trekking
- Music, cinema and reading
FILIPPO BUONCOMPAGNI

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Date of birth: 17/12/1995

EDUCATION
• 2017-current: Allievo (honors student), Collegio Carlo Alberto
• 2017-current: Student, M.Sc. in Mathematical Engineering (Laurea Magistrale), Politecnico di Torino. Graduation expected in 2019
• 2014-2017: Student, B.Sc in Physical Engineering (Laurea Triennale), Politecnico di Torino. Graduation expected in September 2017
• Liceo Scientifico

AWARDS AND SCHOLARSHIPS
• 2013: Participation to “Stages estivi e residenziali – “From macro to micro: Nanostructured materials and electron microscopy””, INFN, Istituto Nazionale di Fisica Nucleare, Frascati (Roma)
• 2014: Participation to summer school of Brown University, Providence, RI, USA

LANGUAGES
• Italian: Mother tongue
• English: FCE (First Certificate of English, level B2), TOEFL (89)
• Spanish: Fluent (level B2)

COMPUTER SKILLS
• Proficient in Microsoft Word, Excel and Powerpoint
• Good knowledge of MATLAB
• Programming: C, Python.

OTHER SKILLS AND INTERESTS
• Volunteering experience with AMKA onlus in Lubumbashi, RDC
• Trekking and running
• Photography
• I love reading
• Football, tennis and cycling
ALBERTO CAPPELLO
Collegio Carlo Alberto
Piazza Arbarello, 8-10122 Torino, Italy
alberto.cappello@carloalberto.org
www.carloalberto.org/education/allievi/students
Date of birth: 25/1/1994

EDUCATION
• 2014-current: Allievo (honors student), Collegio Carlo Alberto
• 2016-current: Student, M.Sc. in Stochastics and Data Science (Laurea Magistrale), Università di Torino
• 2014-2016: B.Sc. in Economics (Laurea Triennale), Università di Torino. Grade 110/110 cum laude
• 2008-2013: Liceo Scientifico P.N.I. “Giolitti-Gandino”, (high school with emphasis on Sciences), Bra (CN). Grade 100/100

AWARDS AND SCHOLARSHIPS
• 2015: summer school in Maastricht. Course: “Economics of European Integration”. Grade A
• 2013: Winner of “Diventiamo Cittadini Europei” competition, organized by Piedmont Regional Council, with a school trip to Brussels
• 2012: Finalist of Generation Euro student’s Award competition, organized by ECB
• 2012: Participation in a formation process entitled “In viaggio per la legalità”

WORK EXPERIENCE
• Poll clerk at 2013 Italian national elections in Sommariva Bosco

LANGUAGES
• Italian: Mother tongue
• English: 2012 FCE (First Certificate of English, level B2), grade C

COMPUTER SKILLS
• ECDL Certification
• Good in R, Python, Latex
• Basic Microsoft Office (Word, Excel, Power Point)

OTHER SKILLS AND INTERESTS
• Cofounder of the blog “NEOS Magazine”
• Interests: math, statistics, social sciences
• Sports: Tennis, Football, Jogging
• Hobbies: Reading books, essays and newspapers
PAOLO COLUSSO

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Piazza Arbarello, 8-10122 Torino, Italy
paolo.colusso@carloalberto.org
www.carloalberto.org/education/allievi/students/

Date of birth: 10/10/1995

EDUCATION

• 2014–current: Allievo Honors Student, Collegio Carlo Alberto
• 2014–current: Student, B.Sc. in Mathematical Engineering, Politecnico di Torino. Graduation expected in 2017
• 2016: Exchange Student, Lund University LTH
• 2009–2014: Liceo Classico “Vincenzo Gioberti” (high school with emphasis on humanities), Torino. Grade 100/100

AWARDS AND SCHOLARSHIPS

• 2014–2017: Young Talents (Percorso per Giovani Talenti), Fondazione CRT and Politecnico di Torino
• 2016: Mobilità Talenti, winner of a scholarship for one semester abroad
• 2014: Master of Talents (Master dei Talenti), Fondazione CRT
• 2014: Giochi d'Autunno, mathematics competition, Università Bocconi
• 2011–2014: Agon and Certamen Augusteum Taurinense, Greek language translation competitions
• 2013–2014: “School of Physics” (1st and 2nd edition) and “Masterclass” in particle physics (1st edition), Università di Torino
• 2011–2013: EEE project on the physics of cosmic rays, Liceo “Vincenzo Gioberti”
• 2013: Summer school of Scuola Normale Superiore di Pisa

WORK EXPERIENCE

• 2013–current: Tutor for students attending high school
• 2016: Volunteer at “Hilbert Café”, Lund LTH (Sweden)
• 2015, September: Volunteer in the Yap-Worldwide Friends work camp “Health and environment”, Hveragerdi (Iceland)
• 2014–2015: Tutor at Liceo “Vincenzo Gioberti” as part of the project Dopooscuola
• 2014, August–September: Internship at “English Language Academy”, Edinburgh
• 2013, July: Internship at “Luxemburg” international bookstore, Torino

LANGUAGES

• Italian: mother tongue.
• French: basic knowledge, level B1.

COMPUTER SKILLS

• Competent in Matlab, Wolfram Mathematica, Python, C, Java, Stata, R, Latex
• ECDL

OTHER SKILLS AND INTERESTS

• Swimming, waterpolo
• Novels, music, theatre
ALICE CORTESE

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www.carloalberto.org/education/allievi/students
Date of birth: 16/1/1993

EDUCATION
• 2014-current: Allievo (honors student), Collegio Carlo Alberto
• 2016-current: Student, M.Sc. in Economics (Laurea Magistrale), Università di Torino
• 2012-2015: B.Sc. in Economics (Laurea Triennale), Università di Torino. Grade 110/110 cum laude
• 2007-2012: Liceo Scientifico"Leonardo Cocito" (high school with emphasis on Sciences) Alba (CN). Grade 94/100

AWARDS AND SCHOLARSHIPS
• 2011: 3 weeks Students Exchange in Medford, Oregon
• 2011: Participation in "Mathematics Olympics"

WORK EXPERIENCE
• 2013: hostess for "Well Com" (Public relation, events organization, communication company)

LANGUAGES
• Italian: Mother tongue
• English: 2011 PET (Preliminary English test, level B1), with Merit

COMPUTER SKILLS
• Competent in both Microsoft Windows and Mac OS X environments
• Proficient in Microsoft Word, Excel and Powerpoint

OTHER SKILLS AND INTERESTS
• Course of BLS (Basic Life Support)
• Volleyball player and coach with "diploma" from CSI (Centro Sportivo Italiano), Alba
JONAS DALMAZZO

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Piazza Arbarello, 8–10122 Torino, Italy
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www.carloalberto.org/education/allievi/students
Date of birth: 26/9/1994

EDUCATION
• 2014–current: Allievo (honors student), Collegio Carlo Alberto
• 2016–current: Student, M.Sc. in Economics (Laurea Magistrale), Università di Torino
• 2013–current: Student, B.Sc. in Economics (Laurea Triennale), Università di Torino. Grade 110/110 cum laude
• 2008–2013: Liceo Scientifico Tecnologico “Tito Sarrocchi” (high school with emphasis on Sciences), Siena. Grade 100/100

LANGUAGES
• Italian: Mother tongue
• English: 2012 FCE (First Certificate of English, level B2), grade B

COMPUTER SKILLS
• Competent in both Microsoft Windows and Linux environments
• Proficient in Microsoft Word, Excel and Powerpoint
• Basic knowledge of programming languages: HTML, CSS, C++

OTHER SKILLS AND INTERESTS
• Reading, photography, travelling, practicing sports, cinema
VALERIO DI TOMMASO

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www.carloalberto.org/education/allievi/students
Date of birth: 20/6/1994

EDUCATION
• 2016-current: Allievo (honors student), Collegio Carlo Alberto
• 2016-current: Student, M.Sc. in Economics (Laurea Magistrale), Università di Torino. Graduation expected in 2018
• 2013-2016: Student, B.Sc. in Scienze economiche (Laurea Triennale), Università degli Studi di Roma La Sapienza. Grade 110/110 cum laude
• 2008-2013: Liceo Classico “Torquato Tasso” (high school with emphasis on humanities), Rome. Grade 95/100

WORK EXPERIENCE
• 2012-2016: IT Support for doctor’s office, Rome
• 2011-2013: Tutor in Latin and Ancient Greek for high school students

LANGUAGES
• Italian: Mother tongue
• English: Fluent (IELTS 7.5, March 2016)
• French: Basic knowledge

COMPUTER SKILLS
• Competent in Microsoft Windows, Mac OS X, Linux/Unix environments
• Proficient in Microsoft Word, Excel and PowerPoint
• Basic knowledge of R, LaTeX

OTHER SKILLS AND INTERESTS
• Technology, History, Reading, Sports
LUCIA DONATO
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www.carloalberto.org/education/allievi/students
Date of birth: 22/11/1993

EDUCATION
• 2012-current: Allievo (honors student), Collegio Carlo Alberto
• September 2016-February 2017: Erasmus exchange student at Catholic University Leuven, Belgium
• 2015-current: Student, M.Sc. in Economics (Laurea Magistrale), Università di Torino. Graduation expected in October 2017
• 2012-2015: B. Sc. in Economics (Laurea Triennale), Università di Torino, Grade 110/110 cum laude
• 2007-2012: Liceo Classico Statale “Edmondo De Amicis” - PNI project (high school with emphasis on Mathematics), Imperia. Grade: 100/100

AWARDS AND SCHOLARSHIPS
• 2010: School experience at “Glenfield College”, Aukland, New Zealand (3 months)

WORK EXPERIENCE
• 2012: High School students Tutor on math
• 2008-2014: Babysitting

LANGUAGES
• Italian: Mother tongue
• English: Good knowledge
• French: Basic knowledge

COMPUTER SKILLS
• Basic knowledge of python, eviews, stata
• ECDL (2015)
• Good knowledge of Windows, Internet tools and Microsoft Office

OTHER SKILLS AND INTERESTS
• 2013–2014: Student representative, Corso di Laurea in Economics, Università di Torino
• 2004–2013: Drama school “Lo Spazio Vuoto” (Imperia)
• 2009–2014: Staff member Agesci Imperia I
• 2012–2013: Voluntary member of “Libera, associazioni nomi e numeri contro le mafie”
MADELEINE DURETETE

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Piazza Arbarello, 8-10122 Torino, Italy
madeleine.duretete@carloalberto.org
www.carloalberto.org/education/allievi/students/
Date of birth: 30/11/1993

EDUCATION
- 2016-current: Allievo (honors student), Collegio Carlo Alberto
- 2016-current: Student, M.Sc. in Stochastics and Data Science (Laurea Magistrale), Università di Torino. Graduation expected in 2018
- 2012-2016: Bachelor of Arts in Mathematics and French Studies, University of Portland, United States. Cum Laude
- 2008-2012: Milwaukie High School, Portland, Oregon, United States. Grade 4.00/4.00, Valedictorian

AWARDS AND SCHOLARSHIPS
- 2014: Sopko Family Scholarship for Women in Technology, University of Portland
- Highest Cumulative GPA, Women's Track and Field, 2013
- AP Scholar with Honor, 2012
- National Merit Commended Scholar, 2011

WORK EXPERIENCE
- 2016: Analytics Intern, FP Transitions, Portland, Oregon
- 2015: Student Grader in Statistics, University of Portland, Oregon
- 2014: Web Development Intern, Squishymedia, Portland, Oregon
- 2013, 2015: Teaching Assistant in Mathematics, French; George Middle School, Le Monde International School, respectively; Portland, Oregon

LANGUAGES
- English: Native language
- French: Fluent

COMPUTER SKILLS
- Competent in both Microsoft Windows and Mac OS X environments
- Excellent knowledge of Excel; proficient in Microsoft Word and Powerpoint
- Basic capabilities in R
- Strong knowledge of Java, VBA, LaTeX
- Experience with C, HTML et CSS, Javascript

OTHER SKILLS AND INTERESTS
- 2014: Intercollegiate Rowing, University of Portland
- 2012-2013: Intercollegiate Track and Field, University of Portland
- Camp Counselor: Caldera Arts; elementary outdoor school
- Pottery, work featured in two local showcases
DANILO FORASTIERE

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danilo.forastiere@carloalberto.org
www.carloalberto.org/education/allievi/students/
Date of birth: 22/04/1993

EDUCATION
• 2013–current: Allievo (honors student), Collegio Carlo Alberto
• 2015–current: Student, M.Sc. in Physics of Complex Systems (statistical physics and biophysics track), Università di Torino
• 2013–2015: B.Sc. in Physics, Università di Torino, Grade 110/110
• 2012–2013: Student, Laurea Triennale (undergraduate degree) in Physical Engineering, Politecnico di Torino
• 2007–2012: Liceo Scientifico PNI “G. De Lorenzo” (high school with emphasis on sciences), Lagonegro (PZ). Grade 100/100 cum laude

AWARDS AND SCHOLARSHIPS
• 2011: Participation in summer school of Scuola Normale Superiore di Pisa (after a nationwide selection)

OTHER ACTIVITIES
• 2011, 2012: Participation in “Physics Olympics”
• 2011: Participation in “Natural Sciences Olympics”

LANGUAGES
• Italian: mother tongue
• English: good knowledge (2013 FCE, First Certificate of English, level B2)
• French: basic knowledge

COMPUTER SKILLS
• General knowledge of Windows and Linux operating systems
• Experience in C/C++, Python, Latex
• Other programming and scripting languages used: Julia, Java, Bash, Wolfram Mathematica, Matlab, R
EDUCATION
• 2013-current: Allievo (honors student), Collegio Carlo Alberto
• 2015-current: Student, M.Sc. in Economics (Laurea Magistrale), Università di Torino. Graduation expected in 2017
• 2015: Exchange student at University of Technology, Sydney, for one semester
• 2012-2015: B.Sc. in Economics (Laurea Triennale), Università di Torino. Grade 110/110 cum laude
• 2007-2012: Liceo Classico “Vincenzo Gioberti” (high school with emphasis on humanities), Torino. Grade 90/100

AWARDS AND SCHOLARSHIPS
• 2016: Summer School in Macroeconomics held by Paris School of Economics
• 2016: Participation in the biennial conference held by the National Bank of Belgium on “The transmission mechanism of new and traditional instruments of monetary and macroprudential policy” in Brussels
• 2015: Scholarship granted by Università degli Studi di Torino within the project “Mobilità Extraeuropea” for studying one semester in University of Technology, Sydney
• 2009: Participation to the stage “Mathematics days” in Bardonecchia
• 2008, 2009: Intensive English course in Canterbury for one month in summer

WORK EXPERIENCE
• 2014: Volunteer in giving legal assistance in a refugee camp in Calabria, Italy
• 2013-current: Building superintendent
• 2013: Usher at Auditorium Rai in Torino
• 2012: Volunteer in a project to help children to do their homework

LANGUAGES
• Italian: Mother tongue
• English: 2012 Certificate in Advanced English, CAE grade C
• French: Basic knowledge

COMPUTER SKILLS
• 2015: ECDL (European Computer Driving License)
• Basic knowledge of Python, Matlab, Eviews, Stata

OTHER SKILLS AND INTERESTS
• 2013-current: Member of the “Consiglio di Dipartimento”, Department of Economics and Statistics, Università di Torino
• 2013-2016: Member of the organizing committee of “Tesoro, parliamone”, an yearly festival of Economics in Torino
• Other interests: Dance, theatre, playing guitar
MATTEO GODIO

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Date of birth: 19/01/1996

EDUCATION
• 2016-current: Allievo (honors student), Collegio Carlo Alberto
• 2014-current: Student, B.Sc. (Laurea Triennale) in Economics, Università di Torino. Graduation expected in September 2017
• 2009-2014: Liceo Scientifico “Valsalice” (high school with emphasis on sciences), Torino

AWARDS AND SCHOLARSHIPS
• 2009-2014: Participation in several editions of “Mathematics Olympiads”
• 2011: Participation in Summer English Schoool, Edinburgh, UK

WORK EXPERIENCE
• 2015: Football player instructor at the amateur society Bacigalupo during the summer holidays of 2015
• 2014-2015: Football player for Società professionista Cuneo-calcio, Serie D
• 2013-2014: Football player for Società professionista Cuneo-calcio, Lega Pro

LANGUAGES
• Italian: Mother tongue
• English: Good knowledge
• French: Basic knowledge

COMPUTER SKILLS
• Competent in both Microsoft Windows and Mac environments
• Proficient in Microsoft Word, Excel and Powerpoint
• Basic knowledge of MATLAB, STATA
• Basic knowledge of C++ programming language

OTHER SKILLS AND INTERESTS
• Football, tennis, philosophy
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Date of birth: 29/09/1995

Education
- 2017-current: Allievo (honors student), Collegio Carlo Alberto
- 2014-2017: Student, B.Sc. (Laurea Triennale) in Physics, Università di Torino. Grade: 110/110
- 2009-2014: Liceo Scientifico "Amedeo Avogadro" (high school with emphasis on sciences), Vercelli. Grade: 100/100 cum laude

Awards and Scholarships
- 2014: Participation to the program "Master dei Talenti Neodiplomati" in Portsmouth

Work Experience
- April-July 2017: Stage at the INFN Computing Centre in Turin
- July-August 2015: Work for Publishow
- March-April 2015/2016/2017: Work at the Buronzo's castle

Languages
- Italian: Mother tongue
- English: 2014 FCE (First Certificate of English, level B2), grade B

Computer Skills
- Competent in both Microsoft Windows and Linux environments
- Proficient in Microsoft Word, Excel and Powerpoint
- Good knowledge of Mathematica and ROOT
- Good knowledge of agent-based modelling with JADE and GAMA
- Programming, scripting and markup languages: C++, Java, Python, SQL (basic)

Other Skills and Interests
- I like reading as well as mountain hikes and climbing
- I practiced football and karate
MARCELLO LANCIANI

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Date of birth: 19/06/1995

EDUCATION

• 2015-current: Allievo (honors student), Collegio Carlo Alberto
• Fall 2016: Exchange student at Vanderbilt University (Nashville, TN)
• 2014-current: Student, B.Sc. in Mechanical Engineering (Laurea Triennale), Politecnico di Torino. Graduation expected in 2017
• 2014-current: Student, Percorso Giovani Talenti, Politecnico di Torino
• 2009-2014: Liceo Scientifico "Marco Vitruvio Pollione" (high school with emphasis on sciences), Avezzano (AQ). Grade 100/100 cum laude

AWARDS AND SCHOLARSHIPS

• 2016: Winner of the SEC-U Project with scholarship
• 2014: Winner of the contest "EconoMia 2014" an participation in the National Festival of Economics of Trento
• 2010-2014: Participation in several editions of Mathematics Olympics passing at national level
• 2010-2014: Participation in several editions of Physics Olympics passing at regional level
• 2013: Participation, after a nationwide selection, in summer school of Scuola Normale Superiore di Pisa
• 2013: Participation, after a nationwide selection, in summer school of Scuola Superiore Sant’Anna di Pisa

LANGUAGES

• Italian: Mother tongue
• English: 2016 IELTS band 7, 2014 FCE (First Certificate of English, level B2)

COMPUTER SKILLS

• Basic knowledge of MATLAB, LaTeX and Solidworks (3D modeling)
• Good knowledge of Microsoft Word, Excel and Powerpoint
• Programming languages: C

OTHER SKILLS AND INTERESTS

• Member of Mensa International
• Member of AVIS
• Skiing, chess
GABRIELE LUBATTI

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Date of birth: 17/05/1995

EDUCATION
• 2015-current: Allievo (honors student), Collegio Carlo Alberto
• 2014-2017: Student, B.Sc. in Physics (Laurea Triennale), Università di Torino, 110/110 cum laude
• 2014-current: Student, B.Sc. in Physics (Laurea Triennale), Università di Torino. Graduation expected in October 2017
• 2009-2014: Liceo Scientifico “Vasco” (high school with emphasis on sciences), Mondovi (Cuneo). Grade 100/100

AWARDS AND SCHOLARSHIPS
• 2017: Participation in the international summer school “Rewriting Nuclear Physics Textbooks”, Istituto Nazionale di Fisica Nucleare (INFN), Pisa
• 2016: Participation in international summer school” European Innovation Academy”, Torino
• 2014: Winner of the third prize in the literary contest “La Scienza narrata”, Merck Serono Foundation, Rome
• 2014: Participation in “Progetto Diderot: matematica all’ennesima Potenza”, Accademia delle Scienze, Torino
• 2013: Participation in “Campus of game theory, astrophysics, theory of relativity”, Bard (AO)
• 2012: Participation in summer school “Scientific Summer Academy” of Agorà Scienza, Torino

WORK EXPERIENCE
• 2017: Private tutorship for high school students
• 2016: Tutor for the courses “Calculus II” and “Physics Laboratory I”, Department of Physics, Università degli Studi di Torino
• 2014: Blogger of the “La Scienza narrate” website
• 2014: Participation in the project “Master dei talenti neo-diplomati - Fondazione CRT”, with a three month work experience in the astronomical observatory “Blackrock Castle Observatory”, Cork, Ireland

LANGUAGES
• Italian: Mother tongue
• English: 2013 Certificate Effective Frequency (CEF), level C1 (60 hours), Moyle Park College, Dublin, Ireland; 2012 Certificate Effective Frequency (CEF), level B2 (60 hours), Moyle Park College, Dublin, Ireland; 2012 PET (Preliminary English Test, level B1)
• French: 2009 Diplome d’étude en langue française (DELF), Ministère de l’Education nationale française, leval A2

COMPUTER SKILLS
• Programming languages: C++, Java
• Good knowledge of Mathematica
• 2012: European Computer Driving Licence (ECDL)

OTHER SKILLS AND INTERESTS
• History and philosophy of science, scientific dissemination, reading Sherlock Holmes novels
CEDOMIR MALGIERI

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Date of birth: 10/01/1996

EDUCATION

• 2014–current: Allievo (honours student), Ernst&Young Junior Allievo for the Academic Year 2015/2016
• 2017–current: Student, M.Sc. in Economics (Laurea Magistrale), Università di Torino
• 2014–2017: Student, B.Sc. in Economics (Laurea Triennale), Università di Torino
• 2014–current: Student, B.Sc. in Economics (Laurea Triennale), Università di Torino
• 2009–2014: Liceo Scientifico “Galileo Galilei” (high school with emphasis on sciences), Bitonto (BA). Grade 100/100 cum laude

AWARDS AND SCHOLARSHIPS

• 2013: Participation, after a nationwide selection, in summer school of Scuola Superiore Sant’Anna (Volterra)
• 2010–2014: Participation in several editions of Mathematics Olympics passing at national level
• 2011–2014: Participation in several editions of Physics Olympics passing at provincial level

WORK EXPERIENCE

• 2015: Internship Top Source (management consulting)
• 2013–2014: Volunteer working for “Banco Alimentare Foundation”

LANGUAGES

• English: Good knowledge; (FCE)
• French: Basic knowledge
• Italian: Mother tongue

COMPUTER SKILLS

• Competent in Microsoft Windows, Mac OS and Linux environments
• Good user of Microsoft Word, Excel and PowerPoint
• Basic knowledge of C++ programming language
• Good knowledge of Network and Internet

OTHER ACTIVITIES

• 2013: English courses for 1 month at Royal Spa English, Tunbridge Wells (UK)
• 2012: English courses for 1 month at Twin Group, London (UK)

OTHER SKILLS AND INTERESTS

• Basketball, trekking, literature, philosophy, astronomy
PAOLO JONICA NOVA

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Date of birth: 17/9/1994

EDUCATION
• 2016-current: Allievo (honors student), Collegio Carlo Alberto
• 2016-current: Student, M.Sc. in Quantitative Finance and Insurance (Laurea Magistrale), Università degli Studi di Torino
• 2013-current: Student, B.Sc. in Economics (Laurea Triennale), curr. Quantitativo, Università degli Studi di Siena. Grade 110/110 cum laude
• 2008-2013: Liceo Scientifico Tecnologico “Tito Sarrocchi” (high school with emphasis on Sciences), Siena. Grade 100/100

AWARDS AND SCHOLARSHIPS
• 2013-2016: Participation in several doctoral seminars at Università degli Studi di Siena
• 2011-2013: Participation in several editions of “Olimpiadi della Chimica”, passing at Regional Level

WORK EXPERIENCE
• 2016 Internship at Università degli Studi di Siena

LANGUAGES
• Italian: Mother tongue
• Albanian: Mother tongue
• English: 2012 FCE (First Certificate of English, level B2), grade B
• Spanish: Basic knowledge

COMPUTER SKILLS
• Competent in both Microsoft Windows and Linux environments
• Proficient in Microsoft Word, Excel and Powerpoint
• European Computer Driving License, ECDL (2012)
• Basic knowledge of R, Stata and SAS
• Basic knowledge of programming languages: HTML and C++

OTHER SKILLS AND INTERESTS
• Politics: Member of “Consulta Territoriale dei Cittadini n.3, Siena”; Member of Giovani Democratici Siena
• Sport practiced: Soccer (11 years), Basketball
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Date of birth: 22/12/1993

EDUCATION
• 2013-current: Allievo (honors student), Collegio Carlo Alberto
• 2015-current: Student, M.Sc. in Economics (Laurea Magistrale), Università di Torino. Graduation expected in 2017
• 2012–2015: B.Sc. in Economics (Laurea Triennale), Università di Torino. Grade 110/110 cum laude
• 2007–2012: Liceo Scientifico S.G. Calasanzio (high school with emphasis on Sciences), Carcare (SV). Grade 100/100

AWARDS AND SCHOLARSHIPS
• 2009-2010: 4 weeks in Grenoble (France), Exchange Program

WORK EXPERIENCE
• 2010: Secondary school students’ tutoring in French and Mathematics
• 2010-2011: 6 week of work in accountancy office (Comune di Calizzano)
• 2011–2013: work placement in 2 Tourist Office

LANGUAGES
• Italian: Mother tongue
• English: 2012 FCE (First Certificate of English, level B2), grade C
• French: 2012 Diplôme du Baccalauréat Général en série SCIENTIFIQUE avec la mention Tres Bien

COMPUTER SKILLS
• Competent in both Microsoft Windows and Mac OS X environments
• ECDL certificate

OTHER SKILLS AND INTERESTS
• Knowledge of music
• Singing (competitions and concerts)
• Tennis (racing at a competitive level)
• Cinema
MARCO PONTIN

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Date of birth: 14/02/1993

EDUCATION
• 2012-current: Allievo (honors student), Collegio Carlo Alberto
• 2015-current: Student, M.Sc. in Mechanical Engineering (Laurea Magistrale), Politecnico di Torino. Graduation expected in 2017
• 2012-2015: Student, B.Sc. in Mechanical Engineering (Laurea Triennale), Politecnico di Torino. Grade 108/110
• 2007-2012: Liceo Classico (high school with emphasis on humanities) “C. Cavour”, Torino. Grade: 100/100

SUMMER SCHOOLS
• 2011: Two week studying holiday in Beckenham, UK
• 2010: Two week studying holiday in Bournemouth, UK

LANGUAGES
• Italian: Mother tongue
• English: PET Certificate, Grade: Passed with merit (2010); FCE (First Certificate in English, level B2), Grade: A (2011)

COMPUTER SKILLS
• 2011: ECDL

OTHER SKILLS AND INTERESTS
• Astronomy, Physics, Mathematics, guitar, basketball, designing and building things, I have practiced judo for eleven years, chess, skateboard
PIETRO RAMELLA

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Date of birth: 28/07/1995

EDUCATION

- 2015-current: Allievo (honors student), Collegio Carlo Alberto
- 2017-current: Student, M.Sc. in Stochastics and Data Science (Laurea Magistrale), Università di Torino
- 2016 August-December: Exchange program at Waterloo University (Ontario, Canada)
- 2014-current: Student, B.Sc. in Mathematics for Finance and Insurance (Laurea Triennale), Università di Torino. Graduation expected in 2017
- 2009-2014: Liceo Scientifico “Charles Darwin” (high school with emphasis on languages), Rivoli (TO). Grade 83/100

AWARDS AND SCHOLARSHIPS

- 2012: Internship at Catholic University of America (CUA) in Washington D.C.

WORK EXPERIENCE

- 2017-current: Internship at IHS Markit, business Analyst
- 2013: Internship in Jacobacci & Parteners S.P.A.

LANGUAGES

- Italian: Mother tongue
- English: 2013 FCE (First Certificate of English, level B2), grade B
- French: 2010 DELPH, grade B1

COMPUTER SKILLS

- Matlab, R, SAS and Excel
- Competent in both Microsoft Windows and Mac OS X environments
- Competent user of C++
- Basic knowledge of programming language Java
- Basic knowledge of Arduino’s hardware and environment

OTHER SKILLS AND INTEREST

- European economic policy, travel and sports
GAIA RIGODANZA

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Date of birth: 05/07/1993

EDUCATION
• 2015-current: Allievo (honors student), Collegio Carlo Alberto
• 2015-current: Student, M.Sc. in Economics (Laurea Magistrale), Università di Torino. Graduation expected in 2017
• 2012-2015: B.Sc. in Economics (Laurea Triennale), Università di Bergamo. Grade 110/110 cum laude
• 2007-2012: Liceo Scientifico “Filippo Lussana” PNI (high school with emphasis on Sciences), Bergamo

AWARDS AND SCHOLARSHIPS
• 2015: Top Ten Student Program (tuition fee exemption for deserving students)
• 2015: INPS scholarship with reference to a.y. 2012-2013

WORK EXPERIENCE
• 2014-2015: Occasional assignment of collaboration in the area of Undergraduate degree in Economics Master (as tutor for freshmen)
• 2014-2015: 150 hours student collaboration at Bergamo University office

LANGUAGES
• Italian: Mother tongue
• English: Good knowledge

COMPUTER SKILLS
• Competent in Microsoft Windows environment
• Proficient in Microsoft Word, Excel and PowerPoint
• Good knowledge of STATA

OTHER SKILLS AND INTERESTS
• Traveling, reading, cinema and yoga
LAURA RISSO

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Date of birth: 21/05/1993

EDUCATION
• 2012-current: Allievo (honors student), Collegio Carlo Alberto
• 2016-current: Student, M.Sc. in Stochastics and Data Science (Laurea Magistrale), Università di Torino
• 2012–2015: B.Sc. in Mathematics (Laurea Triennale), Università di Torino. Grade 106/110
• 2007–2012: Liceo Scientifico “G. Arimondi” (high school with emphasis on Sciences), Savigliano (CN). Grade 100/100

EXTRA CURRICULAR ACTIVITIES
• 2009–2011: Participation in 3 stages “Mathematics Days” in Bardonecchia
• 2010: Participation in the workshop “Festa della Matematica”, organized by A.S. Mathesis, Torino
• 2011: Participation in “Scientific Summer Academy”, organized by Fondazione Agnelli and Centro Universitario Agorà Scienza, Torino
• 2012: Participation in the lecture “Formazione giovani, Diffusione conoscenza e Sviluppo capitale intellettuale” organized by Gruppo Piemontese Cavalieri del Lavoro, Torino
• 2013: Participation in “Alpha-class”, Progetto diderot, Fondazione CRT

WORK EXPERIENCE
• 2009–2010: Internship at the Municipal Historical Archive and Civic Library, Savigliano
• 2009–2011: Peer supporter in Latin, English and Mathematics for young students

LANGUAGES
• Italian: Mother tongue
• English: Good knowledge, 2010 FCE (First Certificate of English, level B2), grade A
• French: Basic knowledge, DELF (Diplôme d’études en Langue Française, level A2)

COMPUTER SKILLS
• Programming, scripting and markup language in C++, R, Python, Matlab, LaTeX

OTHER SKILLS AND INTERESTS
• Tennis, swimming, hiking
• Chess, reading, music and cinema
• Travelling and meeting different cultures
• Volunteering: clown doctor (Nodo Comix member), blood donor and vice president of Leo Club Saluzzo - Savigliano
EDUCATION
- 2017-current: Allievo (honors student), Collegio Carlo Alberto
- 2014 - 2017: Student, B.Sc. (Laurea Triennale) in Scienze Economiche, Università degli Studi di Roma Tor Vergata. Graduation expected in October 2017
- 2009-2014: Liceo Classico “Luciano Manara” (high school with emphasis on humanities), Roma. Grade 97/100

AWARDS AND SCHOLARSHIPS
- 2010: Participation to “Certamen Marinum”, Ostia, Italy

WORK EXPERIENCE
- 01/2015 - 09/2015: Recruiting manager for AIESEC Italia (Roma Tre)

LANGUAGES
- Italian: Mother tongue
- English: Fluent. [2017 IELTS 7.0 (C1)]
- Spanish: Basic

COMPUTER SKILLS
- Competent in Microsoft Windows environment
- Proficient in Microsoft Word and good in Excel
- Basic knowledge of Python, MATLAB, R
- Programming, scripting and Markus. languages: LaTeX (good)

OTHER SKILLS AND INTERESTS
- History, politics, coins collector, basketball
EDUCATION
- 2012–current: Allievo (honors student), Collegio Carlo Alberto
- 2015–current: Student, M.Sc. in Mathematical Engineering (Laurea Magistrale), Politecnico di Torino. Graduation expected in October 2017
- 2015–current: Alta Scuola Politecnica (honors student), Politecnico di Milano & Politecnico di Torino
- 2012–2015: B.Sc. in Mathematics for Engineering (Laurea Triennale), Politecnico di Torino. Grade 110/110 cum laude
- 2007–2012: Liceo Scientifico “L. da Vinci” (high school with emphasis on Sciences), Gallarate (VA). Grade 100/100

AWARDS AND SCHOLARSHIPS
- September 2016: ABS 2016, Summer School in Applied Bayesian Statistics, Como
- August 2016: London School of Economics and Political Sciences, Summer School in Finance, Alternative Investments. Scholarship provided by Unicredit & Universities Foundation
- September 2013: Alpha Class - Progetto Diderot, summer school in mathematics for excellence students from Turin Universities
- September 2010: Scholarship for two weeks in Philadelphia (USA) sponsored by the city council of Gallarate
- May 2011: Participation in the national final of the Maths Olympics in Cesenatico
- July 2011: Scholarship of a month stay in Texas (USA), sponsored by the Lions Club of Gallarate
- 2011–2012: Member of the twice winning school team of the “Premio Filippini” (competition of Physics organized in the province of Varese)

WORK EXPERIENCE
- 2014: Part-time receptionist at Collegio R. Einaudi, Torino
- 2012: Voluntary help in a group for disabled people
- 2012: Math tutoring
- 2011: Weekly homework repetition for disadvantaged students

LANGUAGES
- Italian: Mother tongue
- English: Advanced knowledge (IELTS Certificate Band 8)
- French: Basic knowledge

COMPUTER SKILLS
- Proficient in Microsoft Word, Excel and Powerpoint
- Competent in the following programming languages: C, SQL, Matlab, R

OTHER SKILLS AND INTERESTS
- Football, tennis, bike-riding and chess
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Date of birth: 19/03/1993

EDUCATION
- 2012-current: Allievo (honors student), Collegio Carlo Alberto
- 2015-current: Student, M.Sc. in Economics (Laurea Magistrale), Università di Torino. Graduation expected in 2017
- 2012-2015: B.Sc. in Economics (Laurea Triennale), Università di Torino. Grade 110/110 cum laude
- 2007-2012: Liceo Scientifico “Giacomo Ulivi” (high school with emphasis on Sciences), Parma. Grade 100/100

AWARDS AND SCHOLARSHIPS
- 2016: The future Makers, Boston Consulting Group
- 2016: Scholarship for an English summer school in Dublin, awarded by Collegio Einaudi
- 2011: Participation in Bocconi Talent Scout Program after a national wide selection
- 2011: Summer school at Wagner College, NY
- 2010: Summer school at Rider University, NJ

WORK EXPERIENCE
- 2016-current: Associate and team leader of The Future Makers Association
- 2015-current: Volunteer of Collegio Einaudi
- 2015: Tutor’s Library, Part-Time collaboration with Università di Torino

LANGUAGES
- Italian: Mother tongue
- English: 2015 IELTS, Advance

COMPUTER SKILLS
- Competent in both Microsoft Windows and Mac OS X environments
- Proficient in Microsoft Word, Excel and Powerpoint
- Intermediate knowledge of MATLAB, STATA
- Programming, scripting and markup languages: Python, LaTeX

OTHER SKILLS AND INTERESTS
- Sailing, Snowboard, Soccer
- interested in design and in fashion, travel and meet different cultures
MARCO SCHIAVONE

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Date of birth: 20/06/1993

EDUCATION
• 2013-current: Allievo (honors student), Collegio Carlo Alberto
• 2015-current: Student, M.Sc. in Economics (Laurea Magistrale), Università di Torino. Graduation expected in 2017
• 2012-2015: B.Sc. in Economics (Laurea Triennale), Università di Torino. Grade 110/110 cum laude
• 2007-2011: Liceo Scientifico “G. Battaglini” (high school with emphasis on Sciences), Taranto. Grade 95/100

AWARDS AND SCHOLARSHIPS
• August 2010: Participation in 2 weeks course of English Fluency Development at Dublin City University Language Services (DCULS), accredited by the Advisory Council for English Language Schools Ltd
• July-August 2011: Participation in 2 weeks course of English Studies Course at Anglia Ruskin University of Cambridge (ACCENT), accredited by the British Council

WORK EXPERIENCE
• 2012-2013: Mathematics and Economics tutoring for students of secondary school and enrolled in the first year of university, during the summer period
• 2011-2012: Swimming instructor, during the summer period

LANGUAGES
• Italian: Mother tongue
• English: Good knowledge (level B2)

COMPUTER SKILLS
• Competent in both Microsoft Windows environment
• Proficient in Microsoft Word, Excel and Powerpoint
• ECDL FULL course at Economics faculty, Università di Torino (May-June 2013)
• Basic knowledge of STATA, PYTHON, MATLAB and EVIEWS

OTHER SKILLS AND INTERESTS
• Running, swimming and basket
DEBORA SESIA
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Date of birth: 17/10/1994

EDUCATION
• 2014-current: Allievo (honors student), Collegio Carlo Alberto
• 2016-current: Student, M.Sc. in Stochastics and Data Science (Laurea Magistrale), Università di Torino
• 2014-2016: B.Sc. in Mathematics for Finance and Insurance (Laurea Triennale), Università di Torino
• 2008-2013: Liceo Scientifico “Giuseppe Peano” P.N.I. (high school with emphasis on Sciences), Cuneo. Grade 94/100

AWARDS AND SCHOLARSHIPS
• 2014: Summer School in English for Academic Purposes, Utrecht University, The Netherlands
• 2014: Alfaclass Summer School in Mathematics, Fondazione CRT

WORK EXPERIENCE
• 2011-2012: Kids summer day camp entertainer, Country Club Cuneo
• 2011: International sports event receptionist, Country Club Cuneo

LANGUAGES
• Italian: Mother tongue
• English: 2012 FCE (First Certificate of English, level B2), grade B
• French: 2009 DELF (Diplome d’Études en Langue Française, level B1)

COMPUTER SKILLS
• C++ programming
• General knowledge of office software and internet tools

OTHER SKILLS AND INTERESTS
• High jump (national champion 2009, 2013; competed in European Athletics Junior Championships, 2013)
• Tennis, skiing, ice skating
JACOPO TOZZO

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Date of birth: 15/10/1993

EDUCATION
• 2015-current: Allievo (honors student), Collegio Carlo Alberto
• 2015-current: Student, Laurea Magistrale (advanced undergraduate degree) in Economics, Università di Torino. Graduation expected in 2017
• 2013-2014: Erasmus Student, Business School, Napier University, Edinburgh (UK)
• 2012-2015: Student, B.Sc. in Economics and Finance (Laurea Triennale), Università degli Studi di Bologna
• 2007-2012: Liceo Scientifico “Leonardo da Vinci” (high school with emphasis on Sciences), Jesi (AN)

AWARDS AND SCHOLARSHIPS
• 2013-2014: Erasmus Scholarship, ten months, Napier University Business School, Edinburgh

LANGUAGES
• Italian: Mother tongue
• English: 2015 IELTS (level C1)
• Spanish: 2014 Unibo certificate (level B2)

COMPUTER SKILLS
• Competent in both Microsoft Windows and Mac OS X environments
• Proficient in Microsoft Word, Excel and Powerpoint
• Competent in GRETL, SPSS 20

OTHER SKILLS AND INTERESTS
• 2011-2015: Voluntary work experience, AGESCI
• Politics
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www.carloalberto.org/education/allievi/students/
Date of birth: 12/01/1995

EDUCATION
• 2015-current: Allievo (honors student), Collegio Carlo Alberto
• 2014-current: Student, B.Sc. in Physics (Laurea Triennale), Università di Torino
• 2009-2014: Liceo Scientifico “Federico II di Svevia” (high school with emphasis on sciences), Melfi (PZ). Grade 100/100 cum laude

AWARDS AND SCHOLARSHIPS
• 2013-2014: Participation in several editions of Giochi della Chimica passing at national level
• 2011-2014: Participation in several editions of Olimpiadi della Matematica passing at regional level
• 2013: Participation, after a nationwide selection, in summer school of Scuola Nazionale Superiore di Pisa

LANGUAGES
• Italian: Mother tongue
• English: Good knowledge; 2013 Trinity College London GESE (Graded Examinations in Spoken English, Grade 9), passed with Merit
• French: Basic knowledge; 2009 DELF A1, score: 97/100

COMPUTER SKILLS
• Competent in both Microsoft Windows and Mac OS X environments
• Proficient in Microsoft Word, Excel and Powerpoint
• Basic knowledge of Adobe Illustrator, Adobe Photoshop and Wolfram Mathematica
• Programming, scripting and markup languages: C++ (basic), LaTeX (good)

OTHER SKILLS AND INTERESTS
• Auteur Films, Contemporary History
GIACOMO ZOPPI

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Piazza Arbarello, 8-10122 Torino, Italy
giacomo.zoppi@carloalberto.org
www.carloalberto.org/education/allievi/students/

Date of birth: 06/11/1995

EDUCATION
• 2015-current: Allievo (honors student), Collegio Carlo Alberto
• 2014-current: Student, B.Sc. in Mathematics for Finance and Insurance (Laurea Triennale), Università di Torino. Graduation expected in 2017
• 2009-2014: Liceo Scientifico “Galileo Ferraris” (high school with emphasis on sciences), Sperimentazione Matematica P.N.I e Scienze, Torino. Grade 100/100

AWARDS AND SCHOLARSHIPS
• 2012: Second place in team competition “Matematica all’N-esima potenza - Promesse” organized by CRT Foundation
• 2011: Participation in “Olimpiadi della Matematica” (national level)
• Participation in several editions of “Olimpiadi dell’Informatica” and “Olimpiadi della Chimica” (regional level)

WORK EXPERIENCE
• 2013: Internship at “Consorzio Riva Sinistra Stura”, Ciriè (TO)

LANGUAGES
• Italian: Mother tongue
• English: 2014 FCE (First Certificate of English, level B2), grade B

COMPUTER SKILLS
• Competent in Microsoft Windows
• 2012 ECDL (European Computer Driving Licence) full
• Proficient in Microsoft Office Suite.
• Programming, Scripting and Markup languages: C++, Pascal and Latex (basic knowledge)

OTHER SKILLS AND INTERESTS
• Sport: Football, Hiking
• Hobbies: Cinema, IT, Reading
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<tr>
<th>Luca Aglietta</th>
<th>Diego Salvatore Lamorea</th>
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<td>Emil Bandoni</td>
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<td>Badr Hasnaoui</td>
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LUCA AGLIETTA

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luca.aglietta@carloalberto.org
www.carloalberto.org/education/allievi/students/
Date of birth: 06/10/1998

EDUCATION
• 2017-current: Allievo (honors student), Collegio Carlo Alberto
• 2017- current: Student, B.Sc. (Laurea Triennale) in Physics, Università di Torino
• 2012-2017: Liceo Classico “Vincenzo Gioberti” (high school with emphasis on humanities), Torino. Grade 100/100

AWARDS AND SCHOLARSHIPS
• 2017: Participation to Fermi Masterclass 2017 organized by Università di Torino, Physics department and Fermi LAB
• 2010-2017: Participation to several editions of Mathematics Olympics
• 2012-2016: Participation in four editions of Maths internship MATH in Bardonecchia (Associazione Subalpina Mathesis)
• 2016: English intensive summer course in “Stafford House”, London
• 2015: Participation to Philosophy Olympics, merit recognition at school level

WORK EXPERIENCE
• 2013-2016 Peer tutoring in Maths and Physics in Liceo Classico "Vincenzo Gioberti"

LANGUAGES
• Italian: mother tongue
• English: very good knowledge (equivalent C2 level)
• French: good knowledge

COMPUTER SKILLS
• Competent in Microsoft Windows and Android environments
• Proficient in Microsoft Word, Excel and Powerpoint
• Basic skills in Geogebra

OTHER SKILLS AND INTERESTS
• Sports: 2008/2016 Swimming at an agonistic level, participating to national and regional competitions; skiing; rowing and tennis
• Sailing instructor
• 2016-2017: Psychoanalysis course with SRSP (Scuola per la Ricerca del Sapere Psicoanalitico)
• Progressive rock and jazz music, geopolitics, philosophy and literature
EMIL BANDONI

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Date of birth: 15/01/1997

EDUCATION
• 2017-current: Allievo (honors student), Collegio Carlo Alberto
• 2016-current: Student, B.Sc. (Laurea Triennale) in Economics, Università di Torino. Graduation expected in 2019
• 2011-2016: Liceo Scientifico “S. G. Calasanzio” (high school with emphasis on sciences), Carcare (Savona). Grade 100/100

AWARDS AND SCHOLARSHIPS
• 2015: one-week Erasmus+ workshop “Think globally” in Asker (Norway) with presentation of a year-long project.
• 2014: Intensive English course at ICE, Portsmouth (UK)
• 2014: Finalist at Olimpiadi della Cultura e del Talento, Civitavecchia and Tolfa
• 2013 and 2016: Semifinalist at Olimpiadi di Italiano, Savona

WORK EXPERIENCE
• 2015-current: Freelance journalist
• 2014 and 2015: Summer traineeship at Banco di Credito P. Azzoaglio, Carcare (Savona)

LANGUAGES
• Italian: mother tongue
• English: 2014 FCE (First Certificate of English, level B2), grade B
• French: Basic knowledge

COMPUTER SKILLS
• Competent Microsoft Windows environment
• Proficient in Microsoft Word, Excel, PowerPoint, Sway and Mathematics
• Basic knowledge of CAD 2D
• Good knowledge of Google web services

OTHER SKILLS AND INTERESTS
• 2016-current: Member, blogger and private tutor at Angeli di Carcare (voluntary association)
• 2015-current: Collaboration with CartaBianca News as practising journalist
• Sports: Gym
• Hobbies: Collecting flags
EDOARDO BELLA
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Date of birth: 30/01/1997

EDUCATION
• 2017-current: Allievo (Honors student), Collegio Carlo Alberto
• 2016-current: Student, B.Sc. (Laurea Triennale) in Economia e Commercio, Università di Torino. Graduation expected in 2019
• 2011-2016: Liceo Scientifico “Guglielmo Marconi” (high school with emphasis on sciences), Sassari. Grade 100/100 cum laude

AWARDS AND SCHOLARSHIPS
• 2015, 2016: Participation to “Young Business Talent” national final (in 2016 achieved the 5th national place)
• 2014, 2015, 2016: Participation to the European Youth Parliament (1st edition: prized as best delegate; 2nd and 3rd editions: prized as part of the best delegation)
• 2011–2016: Participation to several editions of “Rally di Matematica”, “Giochi di Archimede”, “Olimpiadi di matematica”, “Olimpiadi di Fisica”
• 2015: Participation to Normale Superiore University Lectures
• 2015: Creation of a start-up in the renewable energy field as part of the project “Il Banco di Sardegna per la scuola”
• 2014: Participation to the Model United Nation MUN in Sassari
• 2010: Participation to the national final of the “Giochi di Matematica Bocconi”

LANGUAGES
• Italian: Mother tongue
• English: 2016, CAE (Certificate in Advanced English, level C1), grade C
• Spanish: 2011, Diploma de español como lengua extranjera (Nivel A2)

COMPUTER SKILLS
• Competent in Microsoft Windows and Android environments
• Proficient in Microsoft Word, Excel and PowerPoint
• Programming, scripting and mark-up languages: basic knowledge of HTML, C and C++

OTHER SKILLS AND INTERESTS
• 2003-2015: Agonistic swimmer at regional level;
• Other interests: Politics, reading
FRANCESCO BILOTTA

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www.carloalberto.org/education/allievi/students/
Date of birth: 20/10/1997

EDUCATION
• 2016–current: Allievo (honors student), Collegio Carlo Alberto
• 2016–current: Student, B.Sc. in Mathematics for Engineering (Laurea Triennale), Politecnico di Torino. Graduation expected in 2019
• 2011–2016: Liceo Classico “D.A. Azuni” (high school with emphasis on humanities), Sassari. Grade 100/100 cum laude

AWARDS AND SCHOLARSHIPS
• 2016: TIL POLITO, Young Talents Project
• 2013–2016: Yearly participation in “Olimpiadi della Matematica” and in “Giochi Matematematici Università Bocconi”, taking part in regional stage and in playoffs to national stage
• 2013, 2015, 2016: Participation in several certamina (latin and greek translation competions), both at regional level, winning 2nd prizes, and at national level (Certamnen Lucretianum and Certamen Horatianum)
• 2015, 2016: Progetto UNISCO, university courses for high school students, organised by Università di Sassari (participation in “Visual Thinking in Matematica” and in “Pensiero critico, argomentazione e ragionamento logico”)
• 2015: Participation in “LISS – A lezione sulla stazione spaziale internazionale”, a series of lessons and conferences organised by ASI focusing on astrobiology, life in microgravity conditions, space exploration
• 2014: Study stay at Kaplan International College, Torquay, UK

WORK EXPERIENCE
• Maths and English private lessons
• 2014–2015: participation in “Ne faccio parte!” volunteering program organised by Caritas

LANGUAGE
• Italian: Mother tongue
• English: 2015 CPE (Certificate of Proficiency in English, CEFR level C2), grade B
• French: basic knowledge

COMPUTER SKILLS
• Proficient in Microsoft Word, Powerpoint, Excel, Publisher; good skills in GeoGebra
• Competent in Windows, Linux and Android environments

OTHER SKILLS AND INTERESTS
• Philosophy, neurosciences, literature, theatre and cinema, basketball, athletics, swimming, skiing
EDUCATION
• 2015-current: Allievo (honors student), Collegio Carlo Alberto
• 2015-current: Student, B.Sc. in Mathematics for Finance and Insurance (Laurea Triennale), Università di Torino. Graduation expected in 2018
• 2010-2015: Liceo Classico “Vincenzo Gioberti” (high school with emphasis on humanities), Torino. Grade 100/100

AWARDS AND SCHOLARSHIPS
• 2016: Participation in AlfaClass Summer School organized by Politecnico-Università di Torino
• 2015: Participation in mathematics stages organized by Università di Torino
• 2014: Member of European Student Parliaments
• 2014: Participation in "Scientific Summer Academy" organized by Fondazione Agnelli and Centro Universitario Agorà Scienza, Torino
• 2014: Experimental research activities at NICO, (Neuroscience Institute Cavaliere Ottolenghi, Azienda Ospedaliera S. Luigi Gonzaga, Orbassano, Torino)
• 2013-2014: Participation in the 1st and 2nd edition of “Scuola di Fisica” organized by Università di Torino
• Participation in several editions of “Giochi d’Autunno”, mathematics (centro Pristem-Università Bocconi)

WORK EXPERIENCE
• 2014-current: Private tutorship for high school and secondary school students
• 2014: Summer Internship at law firm

LANGUAGES
• Italian: Mother tongue
• English: 2016 CPE (Certificate of Proficiency in English, level C2)
• French: basic knowledge

COMPUTER SKILLS
• Competent in Microsoft Windows
• Proficient in Microsoft Word, Excel and Powerpoint
• Good knowledge of Web Browser and Internet tools
• 2014: NEW ECDL Full Standard and Using Databases Module
• Basic knowledge of C++, Python, Matlab and SAS

OTHER SKILLS AND INTERESTS
• 2015: Certificate in first-aid, Croce Rossa Italiana
• Physics (in particular quantum mechanics), philosophy, journalism, reading, impressionist and abstract art, theatre, travelling and cooking
EDUCATION

- 2016-current: Allievo (honors student), Collegio Carlo Alberto
- 2015-current: Student, B.Sc. in Economics (Laurea Triennale), Università di Torino. Graduation expected in 2018
- 2009-2014: Liceo Scientifico “Galileo Ferraris” (high school with emphasis on sciences and mathematics), Torino. Grade 100/100

AWARDS AND SCHOLARSHIPS

- 2015-2016: Participation in “Scuola di buona politica” - Fondazione Lelio Basso (Roma)
- 2015-2016: Participation in “Scuola di buona politica” Torino
- 2009-2014: Participation in several editions of “Olimpiadi della matematica” (regional and national level)
- 2010-2014: Participation in several editions (national level) of “Olimpiadi della matematica a squadre”, (2013-2014 team leader)
- 2014: Participation in “Giornate di orientamento Sant’Anna di Pisa” (After national selection) and in “Scopri il tuo Talento” - Università Bocconi (after national selection)
- 2009-2014: Participation in several editions of “Kangourou della Matematica” (2010 50th place in Italy)
- 2012-2013: Participation in “Olimpiadi della fisica” (regional level)
- 2012-2013: Participation in “Progetto Diderot” - Fondazione CRT (ranked 3rd in the region)
- 2010-2014: Participation in “EEE project” (extreme energy events) with physics department of Università di Torino

WORK EXPERIENCE

- 2016: Writer for NEOS (online newspaper of politics and economics)
- 2013-2014: Director of the school newspaper (“Liberamente”)

LANGUAGES

- Italian: Mother tongue
- English: Very good knowledge

COMPUTER SKILLS

- ECDL full (2012)
- Competent in both Microsoft Windows and Mac OS X environments
- Proficient in Microsoft Word, Excel and Powerpoint
- Programming, scripting and markup languages: C++, SQL

OTHER SKILLS AND INTERESTS

- Reading (economic books and newspapers)
**EDUCATION**

- 2015-current: Allievo (honors student), Collegio Carlo Alberto
- 2015-current: Student, B.Sc. in Mathematics (Laurea Triennale), Università di Torino. Graduation expected in October 2018
- 2010-2015: Liceo Classico Europeo "Umberto I" (high school with emphasis on humanities and languages), Torino. Grade 100/100 cum laude

**AWARDS AND SCHOLARSHIPS**

- 2017: intensive English course in Cambridge (EF Language School)
- 2016: Winner of the "Alfaclass" individual competition, Progetto Diderot, Fondazione CRT
- 2016: Winner of the "Alfaclass" team competition, Progetto Diderot, Fondazione CRT
- 2015-2016: participation in "Giochi d'Autunno" for centro PRISTEM (Università Bocconi) and qualification to the national finals (after a national selection)
- 2015: Subscription in "Albo nazionale delle Eccellenze"
- 2011-2015: Participation in five editions of the "Olimpiadi della Matematica" and qualification to the national final
- 2013-2015: Participation in the project "Matematica all'ennesima potenza" for Progetto Diderot, Fondazione CRT (after a region-wide selection)
- 2014: Participation in mathematics stage "MATH 2014" in Bardonecchia (Associazione Subalpina Mathesis)
- 2015: Participation in mathematics stages "Campus invernale di matematica" in Bardonecchia and "Matematica al Forte" in Bard (Scuola di Formazione Scientifica "Luigi Lagrange")

**LANGUAGES**

- Italian: Mother tongue
- English: 2014 FCE (First Certificate of English, level B2), grade B
- French: 2014 DELF B2 (level B2); 2015 EsaBac (grade 15/15)

**COMPUTER SKILLS**

- Competent in Microsoft Windows environment
- Proficient in Microsoft Word, Excel and Powerpoint
- Basic knowledge of programming languages: Python, HTML and Ruby

**OTHER SKILLS AND INTERESTS**

- 2010-2015: Drama association "Compañeros"
- Reading, playing board-games, cinema
EDUCATION
• 2015-current: Allievo (honors student), Collegio Carlo Alberto
• 2015-current: Student, B.Sc. in Mathematics (Laurea Triennale), Università degli Studi di Torino. Graduation expected in October 2018
• 2010-2015: Liceo Classico “Vincenzo Gioberti” (high school with emphasis on humanities), Torino. Grade 100/100

AWARDS AND SCHOLARSHIPS
• 2011: Intensive English course in New York in “Berlitz school” (2 weeks)
• 2012: Intensive German course in Berlin in “Goethe Institut” (3 weeks)
• 2013: Intensive German course in Heidelberg in “F+U Schule” (3 weeks)
• 2013-2014: Participation in the 1st and 2nd edition of “Scuola di Fisica”, organized by Università di Torino
• 2014: Participation to "Campus Invernale di Matematica Fisica Astrofisica e Nuove Tecnologie"
• 2014: Participation to summer school of Scuola Nazionale Superiore di Pisa (after a nationwide selection)
• 2015: Participation to "Campus Invernale di Matematica Fisica Astrofisica e Nuove Tecnologie"

WORK EXPERIENCE
• 2014-2015: Member of “Consulta provinciale degli studenti”
• 2012-2015: Participation to peer tutoring project of Liceo V. Gioberti
• 2012: Member of the “Council of Liceo V. Gioberti” as a student’s representative

LANGUAGES
• Italian: Mother tongue
• English: 2014 CAE (Certificate in Advanced English level C1), grade C
• German: Basic knowledge

COMPUTER SKILLS
• Competent in Microsoft Windows environment
• Proficient in Microsoft Word, Excel and Prezi

OTHER SKILLS AND INTERESTS
• Free climbing, travelling, reading, watching movies
GIOVANNI CALLERIS
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www.carloalberto.org/education/allievi/students/
Date of birth: 24/06/1997

EDUCATION
• 2017-current: Allievo (honors student), Collegio Carlo Alberto
• 2016-current: Student, B.Sc. in Mathematics for Finance and Insurance (Laurea Triennale), Università di Torino. Graduation expected in 2019
• 2011-2016: Liceo Scientifico “Giuseppe Peano” (high school with emphasis on sciences), Cuneo. Grade 84/100

AWARDS AND SCHOLARSHIPS
• Current: Accepted at the Alfaclass Summer School of Mathematics 2017, offered by the Polytechnic and University of Turin in collaboration with the Fondazione CRT
• 2014-2016: Intensive French courses in Orange (Lycée de l’Arc)
• 2015: Intensive English course in Cambridge at the Bell School
• 2011, 2013 and 2014: Hosted for two weeks in an English family

WORK EXPERIENCE
• 2015-2016: Public Relations for local organisations. Organiser and co-organiser of minor events

LANGUAGES
• Italian: Mother tongue
• English: 2015 FCE (First Certificate of English, level B2), grade B
• French: 2016 Delf B2 and Esabac Certificate “avec la mention bien”

COMPUTER SKILLS
• Programming languages: C++ (Computer Science Exam at University)

OTHER SKILLS AND INTERESTS
• Sailing: certification of “autonomy” (4th level) with catamaran at “Les Glenans” and had many experiences with cruising sailing ships
• Skiing, snowboarding and basketball
• Interest in electronic music production
EDUCATION
• 2016-current: Allievo (honors student), Collegio Carlo Alberto
• 2016-current: Student, B.Sc. in Mathematics for Finance and Insurance (Laurea Triennale), Università di Torino. Graduation expected in 2019
• 2011-2016: Liceo Scientifico Statale "Carlo Cattaneo" (high school with emphasis on applied sciences and informatics), Torino. Grade: 100/100

AWARDS AND SCHOLARSHIPS
• 2017: Grant program "SUSI for Future European Leaders" by the U.S. Dept. of State, selected through the Fulbright Commission, fully funded, held in the USA
• 2017: Selected for "AlfaClass" by Fondazione CRT, Polytechnic and University of Torino
• 2016: Participation, after regional selection, in "European Students Parliament"
• 2012-2016: Yearly participation in "progetto Eccellenze" of L.S. "C. Cattaneo"
• 2012-2016: Participation in several editions of "Festa della Matematica", Lingotto
• 2013-2016: Participation in several editions of "Olimpiadi della matematica", "Olimpiadi della fisica", "Olimpiadi della filosofia", "Olimpiadi della biologia" at school levels
• 2012-2016: Participation in two editions of "Kangourou della matematica" by UniMi
• 2015-2016: Participation after selection in "To3 Nano-Outreach" and related conference "Nanoday", AgoràScienza project
• 2012, 2013, 2015: Selected for mathematics days "MATH" in Bardonecchia, by Mathesis

WORK EXPERIENCE
• 2015: Worked for Centroscienza Onlus in Workshop "ScienzaeSport" as scientific divulger
• 2014: Participation in "STEM Outdoor Susa" organized by Young for STEM, as scientific divulger

LANGUAGES
• Italian: Mother tongue
• English: Certificate of Advanced English CAE grade 196/210, 2016
• French: Proficient in speaking and comprehension, good at reading
• 2014: St Giles International, language courses level C1 and talks about Europe
• 2013: Kent School of English, language courses level B2, accredited by the British Council

COMPUTER SKILLS
• Competent in C++ and VisualBasic
• 2014: ECDL full standard
• 2013: Attended "progetto Eccellenze" in informatics by L.S." Carlo Cattaneo"

OTHER SKILLS AND INTERESTS
• Interests in economics and politics
• Sport: Swimming, brevetto F.I.N. 4° grado
• Hobbies: Reading, Playing Risiko
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Date of birth: 13/05/1995

EDUCATION
• 2015-current: Allievo (honors student), Collegio Carlo Alberto
• 2014-current: Student, B.Sc. in Economics (Laurea Triennale), Università di Torino. Graduation expected in 2017
• 2009-2014: Liceo Classico (high school with emphasis on humanities) “Vittorio Alfieri”, Torino
• 2012-2013: Bischöfliche Gymnasium St. Ursula, Geilenkirchen, Germany

WORKING EXPERIENCE
• Private English and German lessons to High School students
• Baby-sitting

LANGUAGES
• Italian: Mother tongue
• English: Very good knowledge (Middle School Diploma)
• German: Good knowledge (Goethe-Zertifikat B2)
• French: Basic knowledge

COMPUTER SKILLS
• Competent in both Microsoft Windows and Mac OS X environments
• Proficient in Microsoft Word, Excel and Powerpoint

OTHER SKILLS AND INTERESTS
• 2003-current: Member of the Boy Scouts, with International camps
• 2010-current: Private piano lessons, Classical music and Composition
• 2012-2013 Leading voice of the “Musikschule Band” in Geilenkirchen, Germany
• 2007-2011: Member of Vociinnote Choir of Torino
• Other: Volunteer in Burkina Faso in 2009; “Patch Adams” experience; sports at amateur level: tennis, ski
CECILIA CHIESA

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www.carloalberto.org/education/allievi/students/
Date of birth: 06/07/1995

EDUCATION
• 2015-current: Allievo (honors student), Collegio Carlo Alberto
• 2015-current: Student, B.Sc. in Economics (Laurea Triennale), Università di Torino
• 2009-2014: Liceo Scientifico "Galileo Ferraris" (high school with emphasis on sciences and mathematics), Torino. Grade 100/100

AWARDS AND SCHOLARSHIPS
• 2009-2014: Participation in several editions of “Mathematics Olympiads”
• 2014: Total immersion one to one English Home Tuition Course, London, UK
• 2011: Participation in summer English School, Queenswood, UK
• 2010-2011: Participation in summer French School, Cavilam, Vichy, France

WORK EXPERIENCES
• 2014: Secondary school student’s tutoring in Mathematics and Science
• 2013-2014: Volunteer working for “Banco Alimentare Foundation”
• 2013: Volunteer working in London for a Onlus “Give a future” as a secretary
• 2012-current: Volunteer working for “Una Goccia d’Amore per l’Africa”

LANGUAGES
• Italian: Mother tongue
• English: Good knowledge: 2014 International English Language Testing System (IELTS), grade 6/9
• French: Good knowledge: 2012 Diplome d’études en langue francaise, DELF B1, grade 79.50/100

COMPUTER SKILLS
• Competent in Microsoft Word, Excel, Powerpoint

OTHER SKILLS AND INTERESTS
• Ski (racing and competitive level for 10 years), tennis
• Travelling and meeting different cultures (India, Turkey, Egypt, Namibia, European Capitals)
• Reading, music, playing guitar
ALESSANDRO CURITTI

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Piazza Arbarello, 8-10122 Torino, Italy
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www.carloalberto.org/education/allievi/students/
Date of birth: 29/04/1997

EDUCATION
- 2017-current: Allievo (honors student), Collegio Carlo Alberto
- 2016-current: Student, B.Sc. in Aerospace Engineering (Laurea Triennale), Politecnico di Torino. Graduation expected in 2019
- 2016-current: Student, Percorso Giovani Talenti, Politecnico di Torino
- 2011-2016: Liceo Scientifico "Marco Vitruvio Pollione" (high school with emphasis on sciences), Avezzano (AQ), Grade 100/100

AWARDS AND SCHOLARSHIPS
- 2014-2016: Participation in several edition of Mathematics and Physics Olympics
- 2015: Participation in the Summer School "Scuola Estiva Nazionale per studenti sulla Fisica Moderna" at the University of Udine
- 2015: Participation in a cultural exchange with Serbia
- 2014: Participation in "DEMOCRACY – Simulazione del Parlamento italiano" thanks to a scholarship
- 2014: Participation in the Summer School at Laboratori Nazionali del Gran Sasso
- 2013: Participation in "Progetto Comenius" and in a cultural exchange with Portugal

LANGUAGES
- Italian: Mother tongue
- English: Good knowledge

COMPUTER SKILLS
- Competent in both Microsoft Windows and Mac OS X environments
- Good knowledge of Microsoft Word, Excel and Powerpoint
- Basic knowledge of MATLAB
- Programming, scripting and markup languages: C
- Good knowledge of programs by Apache Open Office

OTHER SKILLS AND INTERESTS
- Sports practiced: Football
- Physics (in particular quantum mechanics), reading (physics and math books and newspaper), chess, cinema, travelling
CECILIA D’AGOSTINI
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Date of birth: 11/06/1998

EDUCATION
• 2017–current: Allievo (honors student), Collegio Carlo Alberto
• 2017–current: Student, B.Sc. (Laurea Triennale) in Economics and Statistics for Organizations, Università di Torino/Politecnico di Torino
• 2014–2017: Istituto Tecnico Economico “Luigi Einaudi” (technical institute with emphasis on economics), Palmanova (UD). Grade 98/100
• 2012–2014: Liceo Linguistico L. Martin (high school with emphasis on foreign languages) Latisana (UD)

AWARDS AND SCHOLARSHIPS
• 2017: Participation at Olimpiadi di Italiano passing at regional level
• 2015: Intensive English course in Dublin (Education First School)

WORK EXPERIENCE
• 2015–2016: Internership at Confartigianto and Generali SpA in San Giorgio di Nogaro (UD)
• 2016–current: Volunteer at “Cittattiva” in Lignano Sabbiadoro

LANGUAGES
• Italian: mother tongue
• English: good knowledge
• German: basic knowledge
• Spanish: basic knowledge
• French: basic knowledge

COMPUTER SKILLS
• Competent in Microsoft Word, Excel and Powerpoint
• Basic knowledge of GeoGebra and Access

OTHER SKILLS AND INTERESTS
• Interests in cooking, reading, meeting new cultures and human rights
LUDOVICO DE FAZIO

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Date of birth: 18/05/1996

EDUCATION
• 2016-current Allievo (honors student), Collegio Carlo Alberto
• 2015-current: Student, B.Sc. in Economics (Laurea Triennale), Università di Torino. Graduation expected in October 2018
• 2010-2015: Liceo Scientifico “Ettore Majorana” (high school with emphasis on sciences), Torino. Grade 100/100

AWARDS AND SCHOLARSHIPS
• 2014-2015: Participation in two editions of “Olimpiadi di Italiano”, passing at provincial level
• 2014: Intensive English course in the EF International Language Centre of Malta
• 2011-2012: Participation in two editions of “Olimpiadi della Matematica”

WORK EXPERIENCE
• 2011-current: Football referee for Aia, Associazione Italiana Arbitri (Referee in Prima Categoria and Promozione)
• 2014: Animator in Parish of Santa Rita

LANGUAGES
• Italian: Mother tongue
• English: 2016 IELTS (International English Language Test System), grade 7, Level C1; 2014 FCE (First Certificate of English, level B2), grade B

COMPUTER SKILLS
• Good user of Microsoft Word, Excel and PowerPoint

OTHER SKILLS AND INTERESTS
• Sport journalism (I wrote for Worldwide Bridge, a sports, music and cinema website, in 2014-2015)
• Snowboarding, playing football and tennis
Cesare Dela Pierre
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Date of birth: 12/12/1998

EDUCATION
• 2017-current: Allievo (honors student), Collegio Carlo Alberto
• 2017-current: Student, B.Sc. (Laurea Triennale) in Economics, Università di Torino. Graduation expected in 2020
• 2012-2017: Liceo Classico “Vincenzo Gioberti” (high school with emphasis on humanities), Torino. Grade 100/100 cum laude

AWARDS AND SCHOLARSHIPS
• 2015: Participation to the National Session of the European Youth Parliament Italy as a delegate in AFCO (Constitutional Affairs) committee
• 2016: Participation to the Regional Session of the European Youth Parliament Austria as a journalist
• 2016: Participation to the National Session of the European Youth Parliament Portugal as a delegate in ECON (Economic and Monetary Affairs) committee
• 2016: Participation to the International Forum of the European Youth Parliament Italy as a delegate in AGRI (Agriculture and rural development) committee
• 2016: Participation to summer school of Scuola Superiore Sant’Anna di Pisa (after a nationwide selection)
• 2017: Participation to Certamen Augusteum Taurinense, a Latin translation contest

WORK EXPERIENCE
• 2015: Private tutorship for high school students

LANGUAGES
• Italian: Mother tongue
• English: 2016, FCE (First Certificate of English, level B2), grade A
• German: Basic knowledge

COMPUTER SKILLS
• Competent in both Microsoft Windows and Mac OS X environments
• Proficient in Microsoft Word, Excel and Powerpoint
• Good Knowledge of Web Browsers and Internet tools

OTHER SKILLS AND INTERESTS
• 2017: certificate in first-aid, Croce Rossa Italiana
• Athletics (long jump) at a competitive level, skiing
MATTEO DURANTE

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Date of birth: 14/10/1996

EDUCATION

• 2016-current: Allievo (honors student), Collegio Carlo Alberto
• 2015-current: Student, B.Sc. in Mathematics (Laurea Triennale), Università degli Studi di Torino. Graduation expected in October 2018
• 2011-2015: Liceo Scientifico “Isaac Newton” (high school with emphasis on sciences), Chivasso (Torino). Grade 98/100

AWARDS AND SCHOLARSHIPS

• 2013: Intensive English course in Dublin in "Ulearn English School"
• 2011-2015: Participation in five editions of the “Olimpiadi della Matematica”
• 2014-2015: Participation in the project “Matematica all’ennesima potenza” for Progetto Diderot, Fondazione CRT (after a region-wide selection)
• 2015: Intensive French course in Nice in "International House"
• 2016: Participation in Math games of Università Commerciale “Bocconi” and classification to the national competition

WORK EXPERIENCE

• 2016-current: Treasurer of the “Associazione Ex-Alunni”

LANGUAGES

• Italian: Mother tongue
• English: 2014 PET (Preliminary English Test, level B1), grade 89
• French: Basic knowledge

COMPUTER SKILLS

• Competent in both Microsoft Windows and Linux environments
• Programming, scripting and markup languages: Haskell (decent), C++ (elementary) and LaTeX (elementary)

OTHER SKILLS AND INTERESTS

• Cinema, reading, Opera, theater, computers and walking
EDUCATION
- 2016-current: Allievo (honors student), Collegio Carlo Alberto
- 2016-current: Student, B.Sc. in Mathematics (Laurea Triennale), Università di Torino. Graduation expected in October 2019
- 2011-2016: Liceo Scientifico “G. Ancina” (high school with emphasis on sciences), Fossano (CN). Grade 100/100

AWARDS AND SCHOLARSHIPS
- 2016: Participation in the Italian National Olympics of Physics (bronze medal)
- 2016: Participation in the Italian National Olympics of Science
- 2015: Participation in the summer school Scientific Summer Academy in Torino
- 2014: Participation in the mathematics stage Math 2014 in Bardonecchia
- Participation in many editions of Olympics of Mathematics, Olympics of Science, Olympics of Physics, Bocconi Games

WORK EXPERIENCE
- 2014: Summer internship at Ufficio della provincia per la tutela del territorio, Cuneo
- 2013-2015: Volunteer in pilgrimages to Lourdes with UNITALSI

LANGUAGES
- Italian: Mother tongue
- English: 2015 CAE (Certificate in Advanced English, level C1), grade C
- French: 2011 DELF (Diplôme d’Études en Langue Française, level A2)

COMPUTER SKILLS
- Basic programming in C++ and Python*
- 2016: ECDL (European Computer Driving License)
- Competent in Microsoft Windows environment
- Proficient in Microsoft Word, Excel and Powerpoint

OTHER SKILLS AND INTERESTS
- Mountaineering, climbing, reading
FILIBERTO FABBRO
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Date of birth: 17/10/1996

EDUCATION
• 2015-current: Allievo (honors student), Collegio Carlo Alberto
• 2015-current: B.Sc. in Economics (Laurea Triennale), Università di Torino. Graduation expected in October 2018
• 2010-2015: Liceo Classico "Massimo d'Azeglio" (high school with emphasis on humanistic studies). Grade 99/100

AWARDS AND SCHOLARSHIPS
• 2014: 2nd place in Reale Mutua Assicurazioni Essay contest at Liceo Classico "Massimo d'Azeglio"
• 2010-2014: Participation in "Olimpiadi della Matematica" at Liceo Classico "Massimo d'Azeglio"
• 2013-2014: Participation in three-day "Scuola di Fisica" seminars at Università di Torino

WORK EXPERIENCE
• 2016: Summer job as assistant to manager at Rifugio Garelli, Provincia di Cuneo
• 2014, 2016: Volunteer at "Convalescenzario Crocetta", in charge of entertainment and animation for the elderly, and at "Comunità di Sant'Egidio", in charge of food distribution to homeless people
• 2016: English language tutor for secondary school students
• 2004-current: Member of Scout Group Torino 48 staff

LANGUAGE
• Italian: Mother tongue
• English: Fluent. Preliminary (PET), First (FCE), Advanced (CAE) and Proficiency (CPE) achievements in English language from the Cambridge Institute in 2012-2014
• French: Good knowledge

COMPUTER SKILLS
• Proficient in Microsoft Word, Excel and PowerPoint
• Basic knowledge of Python
• Full Standard European Computer Driving License in 2016

OTHER SKILLS AND INTERESTS
• Nature and sports: Rock climbing, hiking
• Guitar playing
• Travel: Summer stay in Colorado, USA in 2013, summer stay in Efflins, Cornwall, UK in 2014
• International background: Lived abroad and studied at American and British Schools in Copenhagen (1996-1997), Amsterdam (1997-1999), and Warsaw (1999-2001)
EMANUELE FERRO

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Date of birth: 14/02/1996

EDUCATION

• 2016-current: Allievo (honors student), Collegio Carlo Alberto
• 2015-current: Student, B.Sc. in Economics (Laurea Triennale), Università di Torino. Graduation expected in October 2018
• 2010-2015: Liceo Scientifico “Galileo Ferraris” (high school with emphasis on sciences), Torino

AWARDS AND SCHOLARSHIPS

• 2014: Participation in the 2nd edition of “Scuola di Fisica” organized by Università di Torino
• 2013: Participation, after internal selection of the Institute, in summer school at Broadstairs, England
• 2011: Participation and passing a B2 level English course at the University of Nottingham

WORK EXPERIENCE

• 2015-2016 Private tutorship for high school and secondary school students

LANGUAGES

• Italian: Mother tongue
• English: Very good knowledge
• French: Basic knowledge

COMPUTER SKILLS

• Competent in Microsoft Windows environment
• Proficient in Microsoft Word, Excel and Powerpoint

OTHER SKILLS AND INTERESTS

• Reading newspapers, science, football, tennis
EDUCATION
• 2016-current: Allievo (honors student), Collegio Carlo Alberto
• 2016-current: Student, B.Sc. in Automotive Engineering (Laurea Triennale), Politecnico di Torino. Graduation expected in 2019
• 2016- current: Student, Percorso Giovani Talenti, Politecnico di Torino
• 2011-2016: Liceo Scientifico "Marco Vitruvio Pollione" (high school with emphasis on sciences), Avezzano (AQ). Grade 100/100

AWARDS AND SCHOLARSHIPS
• 2015: Participation in “CERTAMEN SALLUSTIANUM” in L'Aquila
• 2015: Participation in a cultural exchange with Serbia
• 2014: Participation in "DEMOCRACY – Simulazione del Parlamento italiano" thanks to a scholarship
• 2013-2016: Participation in several edition of Mathematics and Physics Olympics
• 2013: Participation in “Progetto Comenius” and in a cultural exchange with Portugal
• 2010-2011: Participation in “CAMPIONATI INTERNAZIONALI DI GIOCHI MATEMATICI” of “Università Commerciale “Bocconi”

LANGUAGES
• Italian: Mother tongue
• English: 2014 PET (Preliminary English Test, level B1)

COMPUTER SKILLS
• Basic knowledge of C programming language and Matlab
• Competent in both Microsoft Windows and Mac OS X environments
• Good knowledge of Microsoft Word, Excel and Powerpoint
• Good knowledge of programs by Apache Open Office

OTHER SKILLS AND INTERESTS
• Student at the Conservatory of L’Aquila “A.Casella” in the class of Pianoforte (2013 Licenza di Solfeggio, 2016 Compimento inferiore)
• Football referee, travelling, running and gym
EDUCATION
- 2017-current: Allievo (honors student), Collegio Carlo Alberto
- 2016-current: Student, B.Sc. (Laurea Triennale) in Economics (Economia e Commercio), Università di Torino. Graduation expected in 2019
- 2011-2016: I.I.S. “Bernardo Vittone” (high school with emphasis on administration, finance and marketing), Chieri (TO). Grade 100/100

AWARDS AND SCHOLARSHIPS
- 2016: Winner of the award “Diventiamo Cittadini Europei”. Issuer: Consulta regionale europea
- 2015: Winner of the “Concorso EconoMia”. Issuer: Comitato promotore del Festival dell’Economia di Trento

WORK EXPERIENCE
- 2016: Logistic tutor and assistant at Turin School of Local Regulation during the XIX International Summer School on Regulation (Group of 24 people from 23 different countries)
- 2015: Intern at Banca d’Alba Credito Cooperativo S.C. Administrative assistant in branch
- 2014: Intern at Comune di Chieri. Administrative assistant in the financial department of the municipality

LANGUAGES
- Italian: Mother tongue
- English: Advanced (CAE), C1, Cambridge English Language Assessment, 2016
- French: 2015 Diplôme d’études en langue française (DELF), B2, Centre international d’études pédagogiques
- Spanish: Level A2

COMPUTER SKILLS
- Good knowledge of Microsoft Office suite: Excel, Word, PowerPoint. ECDL License IT

OTHER SKILLS AND INTERESTS
- Basketball (U17 regional champion in 2013)
- Skiing (member of the high school’s Alpine Ski Team)
- History of Cinema
- Writing
BADR HASNAOUI

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Date of birth: 15/09/1997

EDUCATION
• 2016-current: Allievo (honors student), Collegio Carlo Alberto
• 2016-current: Student, B.Sc. in Mechanical Engineering (Laurea Triennale), Politecnico di Torino. Graduation expected in October 2019
• 2011-2016: Liceo Scientifico “Alessandro Volta” (high school with emphasis on sciences), Torino. Grade 100/100

AWARDS AND SCHOLARSHIPS
• 2016: Participation in “Certamen Augusteum Taurinense”
• 2012-2014: Participation in mathematics stages in Bardonecchia (organised by the Università di Torino)
• 2013: Merit scholarship awarded by L.S.S. “A.Volta” for the best students of the school
• 2011: “Educatorio Duchessa Isabella” merit scholarship awarded by “Fondazione per la Scuola”

WORK EXPERIENCE
• Volunteer for “Colletta Alimentare”

LANGUAGES
• Italian: Mother tongue
• English: Good knowledge
• French: Good knowledge
• Arabic: Good knowledge

COMPUTER SKILLS
• Proficient in Microsoft Word, Excel and Powerpoint

OTHER SKILLS AND INTERESTS
• History (in particular modern history), travelling, swimming
DIEGO SALVATORE LAMOREA

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Date of birth: 11/06/1997

EDUCATION
• 2016-current: Allievo (honors student), Collegio Carlo Alberto
• 2016-current: Student, B.Sc. in Economics (Laurea Triennale), Università di Torino. Graduation expected in October 2019
• 2011-2016: Liceo Classico "Giolitti-Gandino" (high school with emphasis on humanities), Bra (CN). Grade 95/100

AWARDS AND SCHOLARSHIPS
• 2016: Participation in "Conoscere la Borsa" (Economics project for high school students)
• 2014: Participation in "Certamen di Greco" at Liceo Classico "Giolitti-Gandino"

WORK EXPERIENCE
• 2014-2016: Tutor in Classical Lyceum subjects for high school students
• 2014: Volunteer for "FAI" (Fondo Ambiente Italiano)
• 2009-2012: Volunteer for "Colletta Alimentare"

LANGUAGES
• Italian: Mother tongue
• English: Very good knowledge
• French: Basic knowledge (DELF A2)

COMPUTER SKILLS
• Competent in Microsoft Windows environment
• Proficient in Microsoft Word, Excel and Powerpoint

OTHER SKILLS AND INTERESTS
• Piano and clarinet (2014 Licenza di solfeggio)
• Waterpolo, Football, Martial Arts
EDUCATION

- 2016-current: Allievo (honors student), Collegio Carlo Alberto
- 2015-current: Student, B.Sc. in Mathematics (Laurea Triennale), Università di Torino. Graduation expected in October 2018
- 2010-2015: Liceo Scientifico “Giuseppe Peano” (high school with emphasis on sciences), Cuneo. Grade 100/100 cum laude

AWARDS AND SCHOLARSHIPS

- 2014, 2015: Two bronze medals in National Physics Olympics
- 2012: Intensive English course in Dublin (Atlantic Language School)
- 2011: Participation to “Corso di Astronomia” in Cuneo at “La Specola”

WORK EXPERIENCE

- 2015, 2016 Barman and restaurant waiter

LANGUAGES

- Italian: Mother tongue
- English: 2014 FCE (First Certificate of English, level B2), grade B
- French: 2014 DELF B2 and ESABAC Certificate

COMPUTER SKILLS

- Competent in Microsoft Windows environments
- Proficient in Microsoft Word, Excel and Powerpoint
- Basic knowledge of Maple and MATLAB
- Programming, scripting and markup languages: C and C++
- ECDL Full Standard

OTHER SKILLS AND INTERESTS

- Black Belt in Kung Fu
- Cyclist and free climber
- Caritas volunteer
- Engaged in local politics
EDUCATION
- 2017–current: Allievo (honors student), Collegio Carlo Alberto
- 2012–2017: Liceo Classico “Vincenzo Gioberti” (high school with emphasis on humanities), Torino. Grade 100/100 cum laude.

AWARDS AND SCHOLARSHIPS
- 2015–current: Member of the European Youth Parliament (EYP) as international delegate, journalist and head organiser in Austria, Portugal and Finland
- 2016: Participation to summer school of Scuola Nazionale Superiore di Pisa and IUSS Pavia (after a nationwide selection)
- 2013: Participation to the stage “Mathematics days” in Bardonecchia

WORK EXPERIENCE
- 2016–current: Volunteer in a project to help children to do their homework
- 2016: Volunteer for GF Work Placement, Shelter Charity Shop in London
- 2015: Volunteer in a soup kitchen, serving food to the needy

LANGUAGES
- Italian: Mother tongue
- English: 2016 FCE (First Certificate in English, level C1), grade A
- French: basic knowledge

COMPUTER SKILLS
- Competent in both Microsoft Windows and Mac OS X environments
- Competent in Microsoft Word, Excel and Powerpoint

OTHER SKILLS AND INTERESTS
- Member of Protezione Civile AGESCI
- Literature, philosophy, volleyball

BENEDETTA MINNITI
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LORENZO NOTARO
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Date of birth: 19/02/1997

EDUCATION
• 2016-current: Allievo (honors student), Collegio Carlo Alberto
• 2016-current: Student, B.Sc. in Mathematics for Engineering (Laurea Triennale), Politecnico di Torino. Graduation expected in 2019
• 2011-2016: Liceo Scientifico "Benedetto Croce" (high school with emphasis on sciences), Rome. Grade 100/100 cum laude

AWARDS AND SCHOLARSHIPS
• 2011-2016: Participation in five editions of the "Mathematics Olympics"
• 2011-2016: Participation in several editions of the "Physics Olympics"
• 2011-2016: Participation in several editions of the "Certamen Romanum"
• 2013: Participation in the final national competition of the "Problem Solving, Algorithm Olympics"
• 2015: Participation to summer school of "Laboratori Nazionali di Frascati dell' INFN", on Neural Network models (after a nationwide selection)

LANGUAGES
• Italian: Mother tongue
• English: Good knowledge (B2 level)

COMPUTER SKILLS
• Competent in Microsoft Windows environment
• Good knowledge of programming languages: C, C++
• Basic knowledge of scripting and markup languages: HTML, LaTeX

OTHER SKILLS AND INTERESTS
• Visual arts, Cinema
• Philosophy, Politics and Economy
• Algorithmic coding
• Complexity Science
EDUCATION
• 2017-current: Allievo (honors student), Collegio Carlo Alberto.
• 2016-current: Student, B.Sc. in Economics, Università degli Studi di Torino. Graduation expected in 2019
• 2011-2016: Liceo Classico "Augusto Monti" (high school with emphasis on humanities), Chieri. Grade 100/100

AWARDS AND SCHOLARSHIPS:
• 2017: Erasmus+ scholarship won for the second semester of 2017-2018 academic year in Riga, Latvia
• 2015: Participation to the meeting "Futuro Prossimo" organized by Association BeYou in Avigliana (TO)
• 2013-2015: Participation in three editions of "Agon di Greco Biblico" in Torre Pellice (TO)

WORK EXPERIENCE
• 2017: Steward activity for C2C (Gi Group company) during sports events in Turin.
• 2016-2017: Tutorship activities at "Liceo Augusto Monti" in Chieri for the students of the first and second year of high school in the following subjects: Ancient Greek, Latin

LANGUAGES
• Italian: Mother tongue
• English: June 2016 CAE (Certificate in Advanced English, level C1), grade B
• French: Basic knowledge

COMPUTER SKILLS
• Competent in Microsoft Windows environment
• Competent in Microsoft Word, Excel and Powerpoint

OTHER SKILLS AND INTERESTS
• Philosophy, History and culture of ancient peoples
• Reading (classic novels, Italian daily newspapers and “Time” magazine)
• Travelling (visited countries: Belgium, Croatia, Czech Republic, France, Greece, Hungary, Republic of Malta, Portugal, Spain).
• Sports: running, football, tennis, ski, kayaking
• 2016-current: Private English and human subjects lessons
ADELE RAVAGNANI

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Date of birth: 25/05/1996

EDUCATION
• 2015-current: Allievo (honors student), Collegio Carlo Alberto
• 2015-current: Student, B.Sc. in Physics, Università degli Studi di Torino. Graduation expected in October 2018
• 2010-2015: Liceo Scientifico “Marie Curie” (high school with emphasis on sciences), Collegno (TO). Grade 100/100 cum laude

AWARDS AND SCHOLARSHIPS
• September 2017: Awarded participation in “L’Astrofisica su Mediterranea” (cultural exchange among university students of Mediterranean areas through Astrophysics)
• June 2017: Participation in the 10th Young Professionals Seminar in Amsterdam organised by United Europe
• Albo Nazionale delle Eccellenze – Diplomati con 100 e Lode A.S. 2014/2015 (honor roll of the Italian Ministry of Education, University and Research)
• March 2015: Awarded ‘Allievo dell’anno 2015’ (school contest promoted by Associazione ex allievi Liceo Marie Curie)
• 2013-2015: Participation in six stages of Physics and Mathematics
• August 2013: Cultural exchange in Israel (for two weeks guest of an Israeli family)
• July 2012: Cultural exchange in the Netherlands (for two weeks guest of a Dutch family)

WORK EXPERIENCE
• 2015-current: Writer for Neos Magazine (online think magazine of university students)
• September 2016: Voluntary web editor for Festivaletteratura (international cultural festival held in Mantua, Italy)
• September 2013–June 2016: Assistant judo coach for A.S.D. Don Bosco Rivoli (TO)
• July–August 2015: Photography assistant for Hoot Media Photography (Richmond, USA)
• 2013-2015: Volunteer in the town of Collegno
• 08/07/2014–05/09/2014: Customer services assistant for Moto Hospitality - Burger King (Exeter, United Kingdom)

LANGUAGES
• Italian: Mother tongue
• English: 2014 FCE (First Certificate of English, level B2), grade B
• French: Basic knowledge

COMPUTER SKILLS
• Competent in both Microsoft Windows and Linux environments
• Proficient in Microsoft Word, Power Point, Excel and Movie Maker
• Programming, scripting and markup languages: C++, Root, Python, Wolfram Mathematica

OTHER SKILLS AND INTERESTS
• July 2017-current: Personal member of United Europe
• 2011–2013: Member of the Italian National team Under 17 of Judo; 3rd place at European Championships, Italian Champion and 5th place at World Championship Under 17 of Judo
• Reading classics and newspapers, Travelling, Going to theatre, Art and photography
EDUCATION
- 2017–current: Allievo (honors student), Collegio Carlo Alberto
- 2017–current: Student, B.Sc. in Economics (Laurea Triennale), Università di Torino. Graduation expected in 2020
- 2012–2017: Liceo Classico “C. Cavour” (high school with emphasis on humanities), Torino. Grade 100/100

AWARDS AND SCHOLARSHIPS
- 2016: Intensive English course at Basil Paterson College, Edinburgh
- 2014–2015: English courses at Bell School of English and The Leys, Cambridge

WORK EXPERIENCE
- 2015–2017: Organizing committee Photo Contest CFC (Concorso Fotografico Cavour) Liceo Cavour, Associazione Culturale Azimut, Salone Internazionale del Libro di Torino
- 2013–2015: Participation in peer-tutoring program of Liceo Cavour (Latin and Greek)

LANGUAGES
- Italian: Mother tongue
- English: 2016 FCE (First Certificate of English, level B2), grade B
- French: Elementary

COMPUTER SKILLS
- Competent in Microsoft Windows and Mac OS X environments
- Good user of Microsoft Word, Excel, PowerPoint, and Prezi

OTHER SKILLS AND INTERESTS
- Skiing, soccer, tennis
- Classical guitar
- Reading, travelling
MARTINA SCAUDA

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Date of birth: 05/06/1998

EDUCATION
• 2017-current: Allievo (honors student), Collegio Carlo Alberto
• 2017-current: Student, B.Sc. in Mathematics (Laurea Triennale), Università di Torino. Graduation expected in October 2020
• 2012-2017: Liceo Scientifico "Galileo Galilei" (high school with emphasis on sciences), Macerata. Grade 100/100 cum laude

AWARDS AND SCHOLARSHIPS
• 2017: Subscription in "Albo nazionale delle Eccellenze" and winner of the scholarship "I fuoriclasse della scuola"
• 2017: Winner of the national contest EconoMia 2017 "Unequal Health"
• 2017: Participation in the regional final of "Physics Olympics"
• 2016-2017: Participation in LUCI (Humanistic laboratory for creativity and innovation) organized by University of Macerata
• 2016: Participation to summer school of LUISS di Roma (after a local selection)
• 2016: Participation to summer school of Scuola Superiore Sant’Anna di Pisa and IUSS di Pavia (after a nationwide selection)
• 2016: Finalist of "CedefopPhotoAward: Youth in Education and Training" and winner of the contest "Video Curriculum Vitae", part of "Digit+" project
• 2015: Participation in the regional final of "Science Olympics"
• 2015: Participation in the second CERN Beamline for Schools competition
• 2014-2015: Participation in "Latinus Ludus" of Mondaino and "Italian Olympics of Astronomy", Senior category
• 2013: Participation in the national final of the "Italian Olympics of Astronomy", Junior category
• 2011: Winner of the prize Macerata Fair Play "Enrico Passarelli Pula"

WORK EXPERIENCE
• 2016: Internship in IT Department, Campetella Robotic Center (Montecassiano)
• 2016: National High School Model United Nations Conference in New York, delegate for Latvia in ECOFIN (Economic and Financial Committee)
• 2015: Internship at Mediateka (Wrocław, Poland) with the European Project DIGIT +

LANGUAGES
• Italian: Mother tongue
• English: 2017 CAE (Certificate in Advanced English, level C1), grade B
• German: Basic knowledge

COMPUTER SKILLS
• Competent in both Microsoft Windows and Mac OS X environments
• Proficient in Microsoft Word, Excel and Powerpoint

OTHER SKILLS AND INTERESTS
• Travelling; Reading and watching films; Photography; Acoustic guitar; Sport journalism
EDUCATION
• 2017-current: Allievo (honors student), Collegio Carlo Alberto
• 2017-current: Student, B.Sc. (Laurea Triennale) in Mathematics, Università di Torino. Graduation expected in October 2020
• 2012-2017: Liceo Scientifico “Piero Gobetti” (high school with emphasis on sciences), Turin. Grade 100/100

AWARDS AND SCHOLARSHIPS
• 2012-2017: Participation in several editions of the “Olimpiadi della Matematica”
• 2014-2016: Participation in the Mathematics stages “MATH 2014” and “MATH 2016” in Bardonecchia (TO)
• 2014: Participation in the Physics Stage “Sperimentiamo- La fisica in gioco”, in Angrogna (TO)
• 2014-2015: Progetto Diderot “Matematica all’n-esima potenza” (CRT Foundation)

WORK EXPERIENCE
• Baby sitting
• Guitar and Solfeggio teacher to children of primary school

LANGUAGES
• Italian: Mother tongue
• English: 2016 FCE (First Certificate of English, level B2), grade B

COMPUTER SKILLS
• Competent in both Microsoft Windows and Mac OS X environments
• Proficient in Microsoft Word, Excel and Powerpoint

OTHER SKILLS AND INTERESTS
• Guitar and Solfeggio certifications by Conservatorio “G.Verdi”, Torino
• Member of the AGESCI (Boy-scouts organisation)
• Singer in “Musicainsieme” choir of Chieri (TO)
• 2015-2016: Volunteer for “Banco Alimentare” and AVO (Hospital volunteer)
ALESSANDRO TUGNETTI

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Date of birth: 07/01/1996

EDUCATION
• 2015-current: Allievo (honors student), Collegio Carlo Alberto
• 2015-current: Student, B.Sc. in Economics, Università di Torino. Graduation expected in October 2018
• 2009-2015: I.I.S.S. “Erasmus da Rotterdam” (I.T.C. in “Amministrazione, Finanza e Marketing”). Grade 100/100

AWARDS AND SCHOLARSHIPS
• 2016: Online Course “Made in Italy: Eccellenze in Digitale” by Google
• Riconoscimento “Diplomato Eccellente Tecnico – Professionale” a.s. 2014/2015 by Camera di Commercio di Torino
• 2009-2015: Participation in several editions of Mathematical Olympics
• 2012: English course in London
• 2011: Séjour linguistique en Cap d’Ail

WORK EXPERIENCE
• August 2017: Internship at “London Mutual Credit Union” bank
• 2013-current: Private tutorship for high school and secondary school students
• 2012-current: Volunteer at “Associazione Amici del Cammello” in Nichelino

LANGUAGES
• Italian: Mother tongue
• English: Good knowledge
• French: DELF B1

COMPUTER SKILLS
• Competent in both Microsoft Windows and Mac OS X environments
• Basic knowledge of Python
• ECDL Full Standard (2015)
• Proficient in Microsoft Word, Excel and Powerpoint

OTHER SKILLS AND INTERESTS
• Freelance journalist for NeosMagazine.it
• Interested in current affairs and technology
• Watching films and scientific documentaries
ENRICO DUILIO TURRI
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Date of birth: 18/04/1997

EDUCATION
• 2016-current: Allievo (honors student), Collegio Carlo Alberto
• 2016-current: Student, B.Sc. in Mathematics (Laurea Triennale), Università di Torino
• 2014-current: Scuola Civica "Vincenzo Corino" (music school following the program of Liceo Musicale and Conservatorio of Torino), Nichelino (TO)
• 2011-2016: Liceo Classico “Vittorio Alfieri” (high school with emphasis on humanities), Torino. Grade 100/100 cum laude

AWARDS AND SCHOLARSHIPS
• 2016: "Albo Nazionale delle Eccellenze”; overall winner and 1st prize in Latin section, Certamen Augusteum Taurinense; 2nd prize, Certamen Taciteum; "Menzione d’Onore" (5th prize), Certamen Horatianum Venusinum; finalist of “Olimpiadi di Lingue e Civiltà Classiche"
• 2013–2016: several participations in "Olimpiadi della Matematica", "Matematica all’n-esima potenza" (Progetto Diderot) and in competitions of Latin (Certamina) and Ancient Greek (Agòn) language translations
• 2014: 3rd prize in the individual competition, Progetto Diderot – Matematica all’n-esima potenza, Promesse
• 2013: "Menzione d’Onore" (4th prize), Certamen Syracusanum
• 2012: 90th prize, "Giochi Matematici", national final at Bocconi University of Economics, after a nationwide selection process
• 2011: 29th prize, rank 65/65, "Giochi Matematici", national final at Bocconi University of Economics, after a nationwide selection process

WORK EXPERIENCE
• 2014-current: Tutor for secondary school students in Mathematics, Physics, Natural Sciences, Latin and Ancient Greek

LANGUAGES
• Italian: Mother tongue
• English: 2014, Cambridge English Level 2 Certificate in ESOL International (First) - Grade A (C1)
• French: Basic knowledge

COMPUTER SKILLS
• Competent in both Microsoft Windows and Mac OS X environments

OTHER SKILLS AND INTERESTS
• Piano and music
• Philosophy and astronomy, reading
• Travelling and sports
EX
X₁,...,Xₙ ~ BERN(p)
L(p; x₁,...,xₙ) = \prod_{i=1}^{n} p^x_i (1-p)^{1-x_i}
\hat{p} = \frac{1}{n} \sum_{i=1}^{n} x_i

Realisations of X₁,...,Xₙ according to f(θ)

P \in \mathbb{P}_{\text{comb}}
JUNIOR ALLIEVI (1ST AND 2ND YEARS)
Junior Allievi have to take at least two courses per year.

- Discrete Mathematics - Tutorial (Fall)  
  Stefano Favaro
- Economic Principles (Spring)  
  Dino Gerardi
- Economics - Tutorial (Fall)  
  Ainhoa Aparicio Fenoll, Ignacio Monzón
- Financial Markets (Spring)  
  Edoardo Grillo
- Introduction to Algorithms (Spring)  
  Alfredo Braunstein, Luca Dall’Asta
- Mathematics for Economics (Introductory course)  
  Pierpaolo De Blasi
- Optimization for Economics (Fall)  
  Claudio Mattalia

JUNIOR ALLIEVI (3RD YEAR) AND SENIOR ALLIEVI
3rd year Junior Allievi and Senior Allievi have to take at least three courses per year.

- Applied Economics (Spring)  
  Ainhoa Aparicio Fenoll
- Bayesian Statistics (Spring)  
  Raffaele Argiento
- Development Economics (Spring)  
  Juan S. Morales
- Dynamic Macroeconomics (January-February)  
  Fabio Cesare Bagliano
- Econometric Theory I (Fall)  
  Marit Hinnosaar
- Econometric Theory II (Spring)  
  Giovanni Mastrobuoni
- Financial Economics (Spring)  
  Roberto Marfè
- Game Theory (Spring)  
  Dino Gerardi
- General Equilibrium Theory (January-February)  
  Andrea Gallice
- Intermediate Mathematics (Fall)  
  Bertrand Lods, Elena Vigna
- Macroeconometrics (Spring)  
  Luca Gambetti
- Macroeconomics (Spring)  
  Filippo Taddei
- Measure Theory (January-February)  
  Bertrand Lods
- Microeconomics (Fall)  
  Ignacio Monzón
- Models and Algorithms (Fall)  
  Alfredo Braunstein, Luca Dall’Asta
- Political Economics (Fall)  
  Edoardo Grillo
- Probability (Spring)  
  Giovanni Pistone
- Quantitative and Numerical Economics (Fall)  
  Pietro Garibaldi
- Theory of the Firm (Fall)  
  Toomas Hinnosaar
APPLIED ECONOMICS
Spring 2018
Instructor: Ainhoa Aparicio Fenoll

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Course Description
This course intends to provide students with basic microeconometric tools to address empirical questions, with special emphasis on their application to Labor Economics, Public Economics and Development Economics. I describe the econometric theory behind the different techniques, comment on empirical research papers applying these techniques and lead students through the implementation of the econometric methods using actual data sets.

Requirements
At the end of the course, students are expected to be able to discuss the suitability of the specifications used in applied economics research, comment on the validity of instrumental variable strategies, design difference-in-differences estimations, understand the context in which regression discontinuity design is applied and be able to obtain correctly estimated standard errors.

Evaluation
Students will be evaluated on the basis of a final project executed in groups of 4 students maximum, periodic assignments and an exam.

Required text

Supplementary readings
• P. Cahuc and A. Zylberberg, "Labor Economics", MIT Press

TOPICS
1. THE EQUIVALENT IDEALIZED EXPERIMENT
MHE, Chapters 1-2
2. REGRESSION
MHE, Chapter 3

3. INSTRUMENTAL VARIABLES
MHE, Chapter 4
- J. Angrist and A. Krueger, "The Effect of Age at School Entry on Educational Attainment: An Application of Instrumental Variables with Moments from Two Samples," JASA 87 (June 1992)

4. FIXED-EFFECTS, DIFFERENCE-IN-DIFFERENCES AND PANEL DATA
MHE, Chapter 5

5. REGRESSION-DISCONTINUITY DESIGNS
MHE, Chapter 6
- J. Angrist and V. Lavy, "Using Maimonides Rule to Estimate the Effect of Class Size on Scholastic Achievement," QJE, May 1999

6. STANDARD ERROR ISSUES
MHE, Section 3.1.3 and Chapter 8
BAYESIAN STATISTICS
Spring 2018
Instructor: Raffaele Argiento

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Objective of the course
The aim of this course is to give an overview of Bayesian parametric modelling, by the end of
the course students will know how to set a Bayesian parametric model and how analytically
compute posterior distributions. They will be able to perform inference (point and interval
estimation and test) in a Bayesian framework.
A successful completion of the course should also make students able to independently
formulate Bayesian models for analyzing a simple datasets arising from standard statistical
regression designs, including model choice in this setting. They will also be able to implement
these models using statistical software (R and OpenBugs), and write reports for their
analysis.

Prerequisites
The minimal prerequisites for this course are the familiarity with basic Probability theory
for discrete and continuous random variables and the knowledge of frequentist parametric
Statistics: point estimation, hypothesis testing, interval estimation and linear regression.
A minimal knowledge of the R software (www.r-project.org) is not mandatory but welcomed.

Contents
• The Bayesian approach to statistics: the likelihood principle, the prior and posterior distribution.
The Bayes Theorem for dominated models. Interpretation of the scientic inference via the
Bayesian approach.
• The three fundamental problems of inference: point estimation, hypothesis testing and
interval estimation; comparison between the Bayesian and frequentist methods.
• Priors distribution. The choice of the prior distribution: not informative distributions;
conjugates and mixtures distributions.
• Some examples with the most common univariate models: Bernoulli beta model, Poisson
gamma model, normal normal-inverse-gamma model.
• Introduction to computational methods for non conjugate Bayesian models. An outline of
the Markov chain Monte Carlo methods. Sketch of the Metropolis-Hastings and the Gibbs
sampler algorithms. The use of the OpenBUGS software to implement a Gibbs sampler in
a Bayesian framework. How to check the convergence of a Markov Chain Monte Carlo
simulation algorithm.
• Introduction to multivariate linear model (generalized linear models) in Bayesian setting:
parameter estimation and variable selection via spike-and-slab priors.
Textbooks
The main text for the course is:
• Ho P. (2009), A First Course in Bayesian Statistical Methods, Springer Texts in Statistics
In particular we will touch the material presented in Chapters 1, 2, 3, 4, 5, 6, 9 (with different levels of detail) of the book.
• Software
We will use two software:
• R (www.r-project.org),
• OpenBUGS (http://www.openbugs.net/w/FrontPage).

Evaluation and Grading
The final grade for this course will be assigned by the evaluation of two works:
1. At the end of the course I will assign an homework requiring a simple and guided analysis of a dataset. The students should provide (in approximately two weeks) a pdf document describing the analysis they performed (the mark for this part will count 25% of the final grade, but a minimum grade of 60/100 will be necessary to pass the exam).
2. There will be a single final exam consisting of a written test in which students will be asked to provide solutions to a set of exercises (this will count 75% of the final grade, but a minimum grade of 60/100 will be necessary to pass the exam).

Reading List
Alternative references are:
• Christensen R., Johnson, W., Branscum, A. Hanson, T.E (2011). Bayesian ideas and data analysis. CRC Press, Boca Raton (USA).

Remark
Remain up to date: check my webpage regularly!
Course Description
This course presents an overview of Development Economics. This field studies issues related to developing countries: the possible reasons why some countries are poor and others rich - geography, history, institutions, culture; the progress that we have seen over the last century and potential interventions - trade and migration, health, education; and some of the current challenges faced - corruption, conflict. The course provides a look at these topics through relevant readings and assignments.

Pre-requisites
Econometrics I, Applied Economics (recommended)

Grades
Midterm (20%), Term paper (20%), Presentation (20%), Final Exam (40%)

Outline and reading list (*required)
1. Introduction
   *Anindya Sen (1999) Development as Freedom, Chapter 1
   *James Ferguson (1990) The Anti-politics machine, Chapter 1

2. Geography
   *Jared Diamond (1998) Guns, Germs and Steel, Chapter 10

3. History
   Dell (2011) “The Persistent Effects of Peru’s Mining Mita”. Econometrica

4. Institutions
   *Daron Acemoglu and James Robinson (2012) Why Nations Fail, Chapter 1
5. Culture

6. Trade and migration

7. Health

8. Education
*Abhijit V. Banerjee and Esther Duflo (2011) Poor Economics: A Radical Rethinking of the Way to Fight Global Poverty, Chapter 4

9. Corruption
Olken (2007), "Monitoring Corruption: Evidence from a Field Experiment in Indonesia". *Journal of Political Economy*

10. Conflict
Blattman and Miguel (2010) “Civil War”. *Journal of Economic Literature*
DISCRETE MATHEMATICS (TUTORIAL)
Fall 2017
Instructor: Stefano Favaro

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Course description
The course introduces some basic counting principles after a brief presentation of the necessary
elements of set theory. The notion of recurrence relation and its connection with a finite
difference equation is briefly presented. The probability and the conditional probability on
discrete sample spaces are introduced. The inclusion and exclusion principle, which is a basic
tool both in combinatorics and discrete probability theory, is extensively treated.

Textbooks
There is no required textbook for the course.

TOPICS
1. Basic counting principle
2. Recurrence relations
3. Finite differences
4. Discrete probability
5. Inclusion and exclusion principle
6. Generating functions
DYNAMIC MACROECONOMICS
January-February 2018
Instructor: Fabio Cesare Bagliano

Contact Information
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Course Description
The course presents basic dynamic macroeconomic models in several specific fields of macroeconomics: consumption and investment theory, growth theory and labour economics. The aim is to provide key methodological tools for the dynamic analysis of a broad range of macroeconomic issues, mainly based on dynamic optimization techniques. Lecture note handouts and problem sets will be provided throughout the course. All necessary material will be made available on the web page of the course.

Exam
There will be a two-hour, closed-book, written exam at the end of the course.

Course outline and material
The course will cover the following topics:

1. Dynamic consumption theory
   • Permanent income theory with rational expectations
   • Empirical issues and puzzles
   • The role of uncertainty: precautionary savings
   • Intertemporal consumption and portfolio allocation

General references
• Romer, "Advanced Macroeconomics", fourth edition, 2012, ch. 8
• Bagliano F.C., Bertola G., "Models for dynamic macroeconomics", 2007, ch. 1

Specific references
• Deaton A., "Understanding consumption", 1992, especially ch. 3, 4
• Attanasio O., "Consumption demand", in Handbook of Macroeconomics, 1999, vol. 1B, ch. 11
• Carroll C., "A theory of the consumption function, with and without liquidity constraints", Journal of Economic Perspectives ("graduate students version" NBER wp 8387), 2001
• Meghir C., "A retrospective on Friedman’s theory of permanent income", Economic Journal, 2004
• Attanasio O. and G. Weber, "Consumption and saving: models of intertemporal allocation and their implications for public policy", Journal of Economic Literature, 2010
• Jappelli T. and L. Pistaferri, “The consumption response to income changes”, Annual Reviews in Economics, 2010

2. Dynamic investment models
   • Dynamic optimization in continuous time
   • Adjustment costs and Tobin’s forward-looking “q”
   • Investment dynamics, interest rates, productivity and wages in partial equilibrium
General references
- Romer, "Advanced Macroeconomics", 2012, fourth edition, ch. 9
- Bagliano-Bertola, "Models for dynamic macroeconomics", 2007, ch. 2

Specific references

3. Economic growth in dynamic general equilibrium
- Balanced growth, steady state and optimal convergence
- Decentralization of production and investment decisions
- Endogenous growth and market imperfections

General references
- Bagliano-Bertola, "Models for dynamic macroeconomics", 2007, ch. 4

Specific references
- Barro-Sala-i-Martin, "Economic Growth", 1995, ch. 1, 2, 4

4. Flow dynamics in the labour market
- Participation externalities in the labour market
- Features of search models of the labour market
- Job matching and unemployment dynamics

General references
- Bagliano-Bertola, "Models for dynamic macroeconomics", 2007, ch. 5, sections 5.2-5.4

Specific references
- Petrongolo-Pissarides, "Looking into the black box: a survey of the matching function", Journal of Economic Literature, 2001
- Nickell S, Nunziata L, Ochel W, Quintini G, "The Beveridge curve, unemployment and wages in the OECD from the 1960s to the 1990s", Centre for Economic Performance, LSE, 2002
ECONOMETRIC THEORY I
Fall 2017
Instructor: Marit Hinnosaar

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Office Hours: by appointment marit.hinnosaar.net

Course description
This course provides an introduction to essential microeconometric tools, combining theory and empirical examples.

Grades
Final course grade will be based on a midterm exam and a final exam.

Textbooks
Recommended textbooks:

Tentative list of topics
1. Asymptotic theory for microeconometrics
2. Properties of Ordinary Least Squares
3. Panel data models
4. ML
5. Quantile regressions
6. Bootstrap
7. Nonparametric and semiparametric methods
ECONOMETRIC THEORY II
Spring 2018
Instructor: Giovanni Mastrobuoni

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Course description
This course provides an introduction to more structural econometric tools, combining theory and empirical examples.

Grades
Final course grade will be based on a midterm exam and a final exam.

Syllabus
1. Generalized Method of Moments
   a. Single equation GMM
   b. Multiple equation GMM

Specific Readings

2. Extremum Estimators and Maximum Likelihood
   a. Extremum Estimators
   b. Examples of Maximum Likelihood

Specific Readings
ECONOMIC PRINCIPLES
Spring 2018
Instructor: Dino Gerardi

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Outline
The course will provide a rigorous survey of microeconomic theory. In the first half of the course we will examine the economic behavior of consumers and firms. The second half will be devoted to the study of selected topics: game theory, market failures, information economics and public choice theory.

I. Introduction

II. Choice Under Certainty (5 lectures)
Preferences and Utility (JR 1.2); The Consumer’s Problem (JR 1.3); Indirect Utility and Expenditure Functions (JR 1.4); Properties of Consumer Demand (JR 1.5); Revealed Preference (JR 2.3).

III. Choice Under Uncertainty (3 lectures)
Objective Probability and Expected Utility (JR 2.4); Subjective Probability (JR 2.4); Risk Aversion (JR 2.4).

IV. Theory of the Firm (2 lectures)
Production Functions (JR 3.2); Cost Functions (JR 3.3); Profit Maximization (JR 3.5).

V. Partial Equilibrium (1 lecture)
Perfect Competition (JR 4.1); Equilibrium and Welfare (JR 4.3).

VI. General Equilibrium (5 lectures)
The Edgeworth Box Exchange Economy (JR 5.1); Exchange Economies (JR 5.2); The Efficiency of Competitive Equilibria (JR 5.2.2); General Equilibrium with Production (JR 5.3); The Core (JR 5.4).

VII. Asymmetric Information and Market Failures (2 lectures)
Information Economics (JR 8); Externalities; Public Goods.

VIII. Game Theory and Imperfect Competition (2 lectures)
Monopoly; Game Theory: Static Games (JR 7.2); Game Theory: Dynamic Games (JR 7.3); Oligopoly (JR 4.2); Auctions (JR 9).

Textbooks
• Nicholson W. and Snyder C., “Microeconomic Theory (Basic Principles and Extensions)”, 10th edition, South Western Educational Publishing
Objective of the course
In this course, we present an introduction to economic problems and, more importantly, economic reasoning. Our first objective is to illustrate the questions economists aim to answer. We show how economics deals with issues of diverse nature, like:

- What explains the reduction in criminality occurred in the last two decades?
- Which is the influence of parents on children outcomes?
- How is the production of a society distributed? Why do some get more than others?
- Why do some people succeed far more than others?
- Why are most hockey players born in January?
- Why does unemployment occur? Is it avoidable?

Our second objective is to describe the methods economists use to answer these widely diverse questions. We will test economic theories both by using real data and designing our own experiments.

Structure of the class
Students and instructors meet weekly to discuss the contents of the class. Before each meeting, students should read the assigned material, in order to organize the discussion around it.

Materials
This course will focus on the following books:

FINANCIAL ECONOMICS
Spring 2018
Instructor: Roberto Marfè

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Outline
This course reviews the main methodological tools and the main research topics in equilibrium asset pricing. That is models that try to understand financial markets behavior in light of the economic activity. The rst part of the course covers the foundations of asset pricing. The second part critically analyzes the leading asset pricing models. All topics are studied in static, discrete-time dynamic, and continuous-time dynamic frameworks.

Grading
There will be a final exam.

Main reference
Financial Asset Pricing Theory, Claus Munk, Oxford University Press.

Topics
1. Stochastic processes for financial markets [Chs. 2-3]
2. State prices [Ch. 4]
3. Consumption and portfolio decisions of individuals [Chs. 5-6]
4. Equilibrium [Ch. 7]
5. Consumption-based asset pricing models [Chs. 8]
6. Advanced consumption-based asset pricing models [Chs. 9]
7. Factor models [Ch. 10]
8. Term structure of interest rates [Ch. 11]
9. Risk-adjusted probabilities [Ch. 12]
10. Derivative pricing [Ch. 13]

Additional readings
2.  

3.  

4.  
FINANCIAL MARKETS
Spring 2018
Instructor: Edoardo Grillo

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Description of the Course
In this tutorial we will overview some fundamental topics in financial economics. We will start from questions such as:
• What is a speculative bubble? What do tulips in the 17th century, radio in 20th century and internet between the 20th and 21st century have in common?
• Is it possible to statistically predict the price of a stock and make money?
• Why do speculators attack a country/currency? Do they coordinate? Are they always right?
• What is the role of collateral in the financial system? What is its role in the propagation of economic shocks?
• What are derivatives? Are they useful or harmful for the economy?
• How did the mortgage crisis lead to the collapse of Lehman Brothers?
In particular, we will address these questions by introducing economic models and by providing a conceptual framework that can also be applied to analyze other relevant issues.

Structure of the class
Classes are intended to be interactive. We will read some material in advance and we will start from it in our discussion.

Material
There is no single textbook for this course and specific references for each topic will be provided before each class. Some interesting (but non-mandatory) books are:
• "The Big Short: Inside the Doomsday Machine", Thorndike Press, 2010
GAME THEORY
Spring 2018
Instructor: Dino Gerardi

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Office Hours: by appointment

Outline
The course will provide a mathematical treatment of choice under uncertainty and game theory. We will develop and solve formal models of strategic interactions among economic agents. We will consider several economic applications, such as imperfect competition, auctions, public goods and bargaining.

I. Introduction
II. Decision Theory
Dominance, beliefs and "Never Weak Best Response" strategies
III. Strategic Form Games
Dominance, Nash equilibrium, mixed strategies
IV. Extensive Form Games
Corresponding strategic forms, behavioral strategies, backwards induction, subgame perfect equilibrium
V. Games of Incomplete Information
Normal-form representation of static games of incomplete information, Bayesian Nash equilibrium, perfect Bayesian equilibrium
VI. Repeated Games
Folk theorems
VII. Mechanism Design
Design of the optimal auction, the revenue equivalence theorem

Textbooks
• Martin J. Osborne and Ariel Rubinstein, "A Course in Game Theory", The MIT Press
• Martin J. Osborne, “An Introduction to Game Theory”, Oxford University Press
• Roger B. Myerson, "Game Theory”, Harvard University Press
• Mas-Colell, Whinston and Green, “Microeconomic Theory”, Oxford University Press
GENERAL EQUILIBRIUM THEORY
January-February 2018
Instructor: Andrea Gallice

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Objective of the course
The course introduces and explores general equilibrium theory and the welfare properties of competitive equilibria.

Contents
1. Introduction: some history of GET, partial vs. general equilibrium, revision of basic microeconomic concepts (preferences, utility maximization, production, profit maximization)
2. A first example of GE: a pure exchange economy
3. A second example of GE: a one-consumer, one-producer economy
4. Competitive equilibria and the first and second fundamental theorem of welfare
5. Existence, uniqueness and stability of the equilibrium
6. The core
7. GE under uncertainty: the Arrow-Debreu equilibrium

Exam
There will be no final exam. A number of problem sets will be distributed during the course. The final mark will be a convex combination of the marks the student obtains in the problem sets and of the student's participation in class.

Textbook
INTERMEDIATE MATHEMATICS
Fall 2017
Instructors: Bertrand Lods and Elena Vigna

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Course description
This is an introductory course on ordinary differential equations with some applications. Fundamental prerequisites are elementary calculus and linear algebra. The main objective of the course is to become familiar with a wide range of ordinary differential equations, which typically arise in economic and financial modelling, and to be able to approach them and solve the easiest ones. Although elementary integration should be part of basic calculus, I will nevertheless give an adequate introduction to Riemann integrals, before starting with the core topics of the course. Complex numbers will also be introduced as preliminary material for the course. Thus, the course will consist of two main parts: preliminaries (integrals and complex numbers) and ordinary differential equations.

Problem Sets
A number of problem sets will be assigned after the completion of each main part. The problem sets are intended to help students to familiarize with the introduced techniques, in preparation for the final exam: assignments will not be collected and marked.

Exam
There will be a final exam at the end of the course, consisting in both written and oral examination.

Course outline
1. Preliminaries
(a) Riemann integrals
   1. Introduction: the integral as an area
   2. Analytic definition of the integral
   3. Characterization of integrable functions
   4. Class of integrable functions and properties of integrals
   5. The mean value theorem for integrals
   6. The fundamental theorem of calculus
   7. Elementary integrals
   8. Integration techniques: integration by substitution and by parts, integration of rational functions
   9. Some results on elementary functions that can be integrated explicitly
   10. Integrals dependent on one parameter: continuity and differentiability
(b) Complex numbers
   1. Algebraic form and polar form of complex numbers
   2. De Moivre's formula and the roots of a complex number
   3. Exponential form of complex numbers and Euler formulae
   4. The fundamental theorem of algebra

2. Ordinary Differential Equations (ODEs)
   (a) Preliminary examples: population models
   (b) Definitions and terminology: n-th order differential equations and systems of ODEs
   (c) The initial-value problem (IVP) or Cauchy problem
   (d) The existence and uniqueness theorem for the IVP
   (e) Solution of some common first-order ODEs: linear, exact differential, separable, homogeneous equations, Bernoulli, Riccati
   (f) Linear differential equations: general solution of homogeneous and complete linear ODE
   (g) Solution of some common higher order ODEs: linear differential equations with constant coefficients, Euler equations

Textbooks

For the preliminaries:

For ordinary differential equations:
This course provides a hands-on introduction to some key mathematical problems that can be solved thanks to a computer, and to the techniques that allow to do it. The course will start with an introduction of the Python programming language and recursion programming. A significant part of the time will be spent writing programs to solve practical examples.

**Course outline**

**Main topics:**
- Introduction to Python
  - Data structures
  - Functions
  - Control Structures
- Recursion
- Divide-and-Conquer
- Dynamic Programming and examples
  - Sorting
  - Edit Distance
  - Heaps
  - Discrete Convolution Problems (e.g. the Knapsack Problem)
MACROECONOMETRICS
Spring 2018
Instructor: Luca Gambetti

The objective of the course is twofold. First, to present some of the most popular time series models designed to analyze the propagation mechanisms and measure the effects of macroeconomic shocks. In particular we will cover Structural Vector Autoregressive models as well as several extensions like the Factor Augmented VAR, Smooth transition VAR, Threshold VAR and Time-Varying Coefficients VAR. The second objective is to discuss some recent applications of these models in macroeconomics. The focus will be on monetary and fiscal policy shocks, news shocks and technology shocks among others. Matlab programs to implement the theoretical methods and replicate the applications studied in class will be made available to students.

Requirement
Econometrics I

Contents
I. Preliminaries: ARMA models.
II. VAR models
III. Structural VARs (SVAR)
IV. Non-fundamentalness and non-invertibility in SVAR models
V. Factor Augmented VAR (FAVAR )
VI. Factor models
VII. Nonlinear VARs.
VIII. Time-Varying Coefficients VARs
IX. Structural empirical models under imperfect information.

References
• Sims, E., 2011, News, non-invertibility, and structural VARs, mimeo, University of Notre Dame
MACROECONOMICS
Spring 2018
Instructor: Filippo Taddei

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Course Description
This is an advanced macroeconomics course, comparable to 1st year PhD level. The objective is to familiarize students with a number of tools relevant to the understanding of the relationship between macroeconomics and the credit markets. We then apply these concepts to topics relevant to macroeconomics and international finance.

Remain up to date: check your email regularly.

Problem Sets
There will be 4 problem sets assigned throughout the course.
Problem sets must be submitted and there are no late submissions: no submission implies a 5% penalty on the total final score.

Grading
There will be a single midterm and final exam in May. The grade will be determined by:
• midterm (30%)
• final exam (60%)
• bad day insurance (10%) to be added to max (final exam, midterm)
Failure to complete the final exam will result in a failing grade.
Failure to complete the midterm will lead to zero being assigned for that evaluation.
There are no make-up exams or alternative dates.

Attending class
You are strongly encouraged to attend all classes.

TOPICS
1. GENERAL EQUILIBRIUM – AN OVERVIEW
   • Bewley, T., "General equilibrium, overlapping generations models, and optimal growth theory", Harvard University Press, 2007

2. OVERLAPPING GENERATIONS MODEL AND GROWTH
6. COURSES

- Bewley, T., "General equilibrium, overlapping generations models, and optimal growth theory", Harvard University Press, 2007, Chapters 9-10
- Samuelson, P. "An exact consumption-loan model of interest with or without the social contrivance of money", *Journal of Political Economy*, 467-482, 1958

3. CREDIT MARKETS IMPERFECTIONS AND ASYMMETRIC INFORMATION


4. FINANCIAL FRICTIONS, GLOBALIZATION AND THE FINANCIAL CRISIS

5. ADDRESSING GLOBAL IMBALANCES: THE ROLE OF FINANCIAL REFORM

- Gourinchas, P., and Jeanne, O., “Capital flows to developing countries: the allocation puzzle,” mimeo, Berkeley, 2009
MATHEMATICS FOR ECONOMICS (INTRODUCTORY COURSE)
Introductory course
Instructor: Pierpaolo De Blasi

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Collegio Carlo Alberto +39 011 6705282
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Course Description
The purpose of this course is to provide basic mathematical tools used in macro and microeconomics. Knowledge of elementary calculus is assumed. The main topics are linear algebra and multivariate calculus. Problem sets will be assigned throughout the course; some of them will be solved in the afternoon problem sessions. I will not collect these assignments, however, I recommend trying to solve them prior to the problem sessions. Attendance to all classes is mandatory.

Schedule
The course will take place during the last week of August and the first two weeks of September, for a total of 30 hours.

Exam
There will be a final examination during the third week of September, consisting of a series of problems to be solved in 3 hours time. No lecture material will be allowed (closed-book exam).

Course Outline
I. Linear algebra
- Elements of vector and matrix algebra L ch I.1-I.4, II.1-II.2, II.5
  SB ch 10.1-10.4, 8.1-8.4
- Systems of linear equations L ch II.3-II.6
  SB ch 7.1-7.3
- Vector spaces, linear independence and basis L ch III.1-III.5
  SB ch 11.1-11.3, 27.1-27.2, 27.6
- Rank and linear mappings L ch III.6, IV.1-IV.5
  SB ch 7.4, 13.3, 27.3-27.5
- Determinant L ch VII.1-VII.5
- Eigenvectors and eigenvalues L ch VIII.1, VIII.2
  SB ch 23.1-23.3, 23.7, 23.8

II. Calculus of several variables
- Limits and open sets in R^n SB ch 12.2-12.5
- Functions of several variables SB ch 13.1-13.3, 13.5, 16.1-16.2
- Continuous functions, derivatives and differentials SB ch 13.4, 14.1-14.6
- Implicit Function Theorem SB ch 15.1, 15.2
- Mean Value Theorem and higher-order derivatives SB ch 14.8, 30.1-30.3, 21.1-21.2
Note: topics flagged with a "***" will be covered if time permits.

Textbooks
- Lecture Notes at sites.google.com/a/carloalberto.org/pdeblasi/teaching
- Lang, S., “Introduction to Linear Algebra” (2 edn), Springer, 1986
MEASURE THEORY
January-February 2018
Instructor: Bertrand Lods

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Course Description
The course introduces the theory of Lebesgue integration. After defining appropriate structures of sets such as algebras, semi-algebras and sigma-algebras, we provide the notion of Lebesgue-Stieltjes measures, and their construction from semi-algebras to sigma-algebras. We then constructively define integrals with respect to a Lebesgue-Stieltjes measure and state their most relevant properties. The relationship with classical Riemann integration and the connection with probability theory are also examined.

Exam
Written exam at the end of the course.

Course Outline
• Classes of subsets: algebras, semi-algebras, sigma-algebras, monotone classes
• Measures: definition and properties; finite-additivity and sigma-additivity; construction of measures on sigma-algebras; completions of measures; Lebesgue-Stieltjes measures
• Measurable functions
• Lebesgue-Stieltjes integrals: construction and properties
• Convergence theorems
• Null-measure sets and properties holding almost everywhere
• Comparison with Riemann integration
• Radon-Nikodym’s theorem

Textbooks
Detailed lecture notes will be provided. Some reference books are:
• Folland, G.B., “Real analysis”, Wiley, 1999
• Royden, H.L., “Real analysis”, Prentice Hall, 1988
MICROECONOMICS
Fall 2017
Instructor: Ignacio Monzón

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Introduction
This class presents a formal analysis of microeconomic theory focused on decision theory, consumption, production, aggregation, and choice under uncertainty. The objective pursued is to introduce, carefully and in depth, the analytical tools used in microeconomic theory. The introduction of these topics in a meticulous way serves the following purposes. First, mastering the theory of consumption and production is fundamental to understand (and work on) applied and theoretical labor economics, public economics or industrial organization. Consequently, students interested in these topics should invest in learning microeconomic theory. Second, the theory of choice under uncertainty permeates all economic research. In particular, uncertainty plays a key part in game theory, which is introduced in its own course in the fall semester. Third, the microeconomic theory of consumption and production is used in international economics and macroeconomics. Specifically, this class tackles the issue of aggregation: it analyses under which conditions we can focus on aggregate entities and disregard the individual problem. Last but not least, microeconomic theory is fascinating by itself: it deals on how to build simple models that capture our intuition to study complex phenomena.

Prerequisites
This class builds on prior exposure to economic concepts and to mathematical reasoning. Regarding mathematics, as a guide, traditional mathematics sequences in multivariable calculus and some real analysis should suffice. There are concepts used in this class, however, that are not covered in such sequences. These concepts are introduced as needed. It is, therefore, necessary for students to have enough mathematical ability to acquire the necessary knowledge “on the fly”. Required prior exposure to economics is at a similar level. An intermediate course on microeconomics would be a good background. Yet, students whose economics is limited to one introductory and one intermediate microeconomics courses may find both the material and the pace of this course rather daunting.

Requirements and Grading
Formal requirements for the course include regular attendance and participation in lectures, weekly problem sets, a midterm exam and a final exam. Problem sets are demanding, mandatory and an essential part of the course. Problem sets’ solutions provide students with a guide on how well they are grasping the material on a “real time” basis. Students are
encouraged to work in groups on the problem sets. However, students should understand the material on their own, and hand in their own problem sets. The course grade is determined by the midterm, the final and the problem sets. No late submissions of problem sets are accepted. There are no make-up exams or alternative dates.

To account for possible unexpected problems, the lowest grade in a problem set will be dropped. There are three possible grades in each problem set, (+), which corresponds to 10/10, (√), which corresponds to 7/10 and (-), which corresponds to 4/10. If the problem set is not handed in the corresponding grade is 0/10.

The final grade will be a combination of the problem sets grades (15%), the midterm exam grade (40%) and the final exam grade (45%).

Textbooks
The main text for the course is:
- Andreu Mas-Colell, Michael D. Whinston and Jerry R. Green, “Microeconomic Theory”, Oxford University Press, 1995 (MWG)

Alternative textbooks that students might also find useful are:

Material: We will cover chapters 1 through 6 of MWG.

Remain up to date: check my webpage regularly.
MODELS AND ALGORITHMS
Fall 2017
Instructors: Alfredo Braunstein and Luca Dall’Asta

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Course Description
This course concerns “complicated” probability distributions, involving many variables with non-trivial correlations. The problems of generating samples from such a distribution and computing the average of some functions over it will be discussed, as well as their solution thanks to the Monte Carlo technique and the connection with optimization. We will also investigate some properties of random graphs. A significant part of the time will be spent writing programs to solve practical examples of the above problems. This will give us the opportunity to discuss some “ancillary” topics, covering the basics of effective programming (illustrated with Matlab) and some general concepts and techniques.

Course outline
MAIN TOPICS:
- Random graphs and their properties: percolation, k-cores, loops, etc.
- Simulated annealing
- Branch-and-bound
- Markov Chains
- Detailed balance, Metropolis algorithm
- Ergodicity
- Sampling and average computations
- Accelerated algorithms, importance sampling, rejectionless Monte Carlo
- Examples and applications

ANCILLARY TOPICS:
- Pseudo-random numbers
- Numerical precision
Objective of the course
The goal of this course is to provide students with mathematical tools that are necessary for understanding modern economics, doing research of practical work. The object of study in this course – a problem of finding an optimal course of actions subject to feasibility constraints – appears in almost every subfield of economics (consumption choice problem, theory of firm, macroeconomics, industrial organization, labor economics, etc.). The art of solving such problems, however, is usually "too applied" to find space in a purely mathematical curriculum. In this course, the emphasis will be put on the theory of constrained optimization, but the objective is also to provide an integrated treatment that relates the mathematical theory to economics.

Structure of the course
During the lectures, the theory and mathematical background will be presented and typical problems will be solved. Each week a problem set will be assigned, and the solutions will be available the week after.

Formal course requirements include attendance of the lectures, a midterm exam and a final exam.

Outline of the course
A good command of single variable calculus and linear algebra is required. The topics presented during the course are the following:
- Functions of several variables
- Calculus of several variables
- Implicit functions and their derivatives
- Quadratic forms
- Unconstrained optimization: first-order conditions and second-order conditions
- Constrained optimization with equality constraints and with inequality constraints: first-order conditions and second-order conditions
- Lagrangian function, Lagrange multipliers and their meaning

Textbook
POLITICAL ECONOMICS

Fall 2017
Instructor: Edoardo Grillo

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Description of the Course
Political economics is an interdisciplinary field that focuses on the interactions between political institutions, economic agents and legal systems. The primary goal of this course is to provide a formal and rigorous analysis of key topics in political economics and to provide answers to policy-relevant questions, such as:

- Under which conditions does a society that decides through majoritarian voting make coherent decisions?
- How does electoral competition affect taxation, public-good provision and other redistributive policies?
- How does bargaining power affect the allocation of a fixed surplus between two parties?
- How does the outcome of legislative bargaining change as we modify the bargaining protocol (closed vs. open amendment rule)?
- To what extent can lobbies affect politicians' decisions in their own favor?

A secondary goal is to provide students with a tool-kit they can use to further advance their understanding of this field.

Course Outline
1. Introduction (½ class)
2. Social Choice Theory (2 and ½ classes)
   2.1. Arrow's impossibility theorem
   2.2. Majoritarian voting: single-peakedness and single-crossing
3. Electoral Competition and Voting (3 classes)
   3.1. Downsian electoral model
   3.2. Probabilistic voting model
   3.3. Partisan politicians and citizen-candidate models
4. Redistribution and Electoral Competition (3 classes)
   4.1. Income-based redistribution: distortionary taxation and electoral incentives
   4.2. Age-based redistribution: pension systems in a model with overlapping generations
   4.3. Labor-based redistribution: unemployment benefits and labor market regulations
5. Bargaining (2 classes)
   5.1. Bargaining between two agents: Rubinstein's model
   5.2. Legislative bargaining: Baron and Farejohn's model
6. Lobbying (2 classes)
7. Additional Topics (if time remains, we will cover some of these topics. Students are encouraged to suggest different topics)
   7.1. Political Transitions: Acemoglu and Robinson's model
   7.2. The Effect of the Electoral Rule on the Size of Government
   7.3. The paradox of abstention: Palfrey and Rosenthal's model
References and Course Material
The essential references for each topic are listed below (additional, non-mandatory references may be suggested during the course).

1. Social Choice Theory

2. Electoral Competition

3. Redistribution

4. Bargaining

5. Lobbying

6. Additional Topics

Grading and Course Requirements
Your final grade will be a weighted average of problem sets (30%) and a final exam (70%).
PROBABILITY
Spring 2018
Instructor: Giovanni Pistone

Contact Information
Collegio Carlo Alberto +39 011 6705033
go@carloalberto.org
go@giannidiorestino.it

Course description
The course offers an overview of some mathematical topics in Probability. Tools and models that are routinely used in a variety of areas including Statistics, Machine Learning, Econometrics, Mathematical Finance, Economics are rigorously discussed. The main emphasis is on the treatment of distribution theory and conditioning together with their main applications. Students are assumed to know the basics of Matrix Algebra, Multivariate Calculus, Measure Theory. The course is equally divided into lectures and exercise sessions.

Topics
• Recap of useful mathematical topics
• Probability spaces
• Random variables and their distribution. Expectation. Simulation
• Independence
• Conditional expectation and conditional distribution. Sufficiency
• A selection of topics in special models: Exponential Family, Multivariate Gaussian, Markov Chain, Poisson Process, Martingale

Grading
There will be a single final written exam consisting in exercises and a short essay.

Textbook
• Williams, D., ”Probability with martingales”, Cambridge University Press, 1991
• Lecture notes
QUANTITATIVE AND NUMERICAL ECONOMICS
Fall 2017
Instructor: Pietro Garibaldi

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Office Hours: by appointment sites.carloalberto.org/garibaldi

Description
The course is an introduction to NUMERICAL methods in economics. The course will introduce students to the key NUMERICAL techniques used in contemporary quantitative economics: Stochastic difference equations, non linear models, Dynamic programming, Markov chains and other tools used for solving Dynamic Stochastic General Equilibrium models.

The main example will be from macroeconomics but the same tools can be used in the field of economics. The spirit of the course is to acquaint students with the fact that contemporary economics relies heavily on computer power.

The main language used in the application is Python, a popular Open source computer language that is now increasingly applied in economics. Knowledge of the programming language is not essential but some background in basic programming will be an advantage. DSGE models will also be solved with the help of Dynare, an open source application for Matlab and Octave.

Main References
- Sargent and Stachursky, “Quantitative Economics” freely available at www.quant-econ.net
THEORY OF THE FIRM
Fall 2017
Instructor: Toomas Hinnosaar

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Description of the Course
Industrial organization extends the theory of the firm by analyzing market frictions, imperfect competition, limited information, and regulations. In the first part of the course we will study behavior of monopolies: how they set prices in static and dynamic settings, what are the optimal ways to sell products, how they choose product quality, and how monopolies can affect social welfare. In the second part we extend the analysis to multiple firms and study the behavior of oligopolies. The major interest is in different forms of competition and collusion. In the third part, we extend the analysis to the situations where the buyers are boundedly rational: for example, how to treat buyers who are unable to make very complex comparisons. The final part of the course takes a more general view and uses mechanism design to discuss which allocations are generally implementable and what kind of institutions deliver the optimum.

Topics
1. **Monopoly**: pricing, durable goods, product selection, quality, advertising, product differentiation, price discrimination
2. **Oligopoly**: static models of competition, dynamic models of competition, competition with differentiated products, vertical differentiation, monopolistic competition, entry, search, sales
3. **Bounded rationality**: rational buyer model, quacks, obfuscation
4. **Mechanism design**: institution-free approach

Requirements
Requirements include weekly problem sets, a midterm (40%), and a final exam (60%).

Textbooks
Main text:

For some of the topics we will use chapters from:
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<th><strong>Director</strong></th>
<th><strong>Adjunct Faculty</strong></th>
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AINHOA APARICIO FENOLL

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Education
PhD in Economics, Universitat Pompeu Fabra, 2010

Research Interests
Labor, Education, Migration and Family Economics, Applied Econometrics

Selected Works
- Compulsory Schooling Laws and Migration across European Countries (with Zoe Kuehn), *Demography*
- The Effect of Product Market Competition on Job Instability, *Labour Economics*
- Returns to Education and Educational Outcomes: the Case of the Spanish Housing Boom, *Journal of Human Capital*

RAFFAELE ARGIENTO

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Education
PhD in Statistics, Università Commerciale “L. Bocconi”, 2007

Research Interests
Computational methods in Bayesian Nonparametrics, Applied Bayesian Modelling

Selected Works
FABIO CESARE BAGLIANO

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Education
PhD in Economics, London School of Economics

Research Interests
Applied Macroeconomics, Business Cycle Analysis, Monetary Theory and Policy

Selected Works
• Optimal life-cycle portfolios for heterogeneous workers, Review of Finance, 2014, 18, 6, 2283-2323, with C. Fugazza and G. Nicodano
• Determinants of US financial fragility conditions, Research in International Business and Finance, 2014, 30, 1, 377-392, with C. Morana

ALFREDO BRAUNSTEIN

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Education
PhD in Applied Math, Scuola Internazionale di Studi Superiori Avanzati

Research Interests
Combinatorial Optimization, Statistical Inference, Machine Learning, Statistical Physics

Selected Works
• Braunstein, A., Muntoni, A.P., Pagnani, A., 2017. An analytic approximation of the feasible space of metabolic networks
LUCA DALL’ASTA

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Education
PhD in Physics, Università Paris-Sud, 2006

Research Interests
Statistical physics of disordered systems and non-equilibrium processes, Complex Networks, Game Theory, Inference and Combinatorial Optimization

Selected Works

PIERPAOLO DE BLASI

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Education
PhD in Statistics, Università Commerciale “L. Bocconi”, Milan

Research Interests
Bayesian Nonparametrics, Posterior Consistency, High Order Asymptotics, Survival Analysis

Selected Works
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Education
PhD in Statistics, Università Commerciale "L. Bocconi", 2009

Research Interests
Bayesian nonparametrics, Large deviations, Markov chain Monte Carlo methods, Population genetics

Selected Works
• MCMC for normalized random measure mixture models, with Y.W. Teh, Statistical Science, 2013, vol. 28, pp. 335-359

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Education
High School Diploma specialization “Tourism”, 1997

Activities
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Education
PhD in Economics, European University Institute, 2007

Research Interests
Microeconomics, Auction Theory, Industrial Organization, Economics of Education

Selected Works
• An Approximate Solution to Rent-Seeking Contests with Private Information, European Journal of Operational Research, 256 (2), 673-684, 2017
• Optimal Stealing Time, Theory and Decision, 80 (3), 451-462, 2016

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Education
PhD in Economics, Universitat Pompeu Fabra, 2006

Research Interests
Macroeconometrics, Macroeconomics, Time Series Analysis

Selected Works
• Noise Bubbles (with Mario Forni, Marco Lippi and Luca Sala), forthcoming in Economic Journal
• Sufficient Information in Structural VARs (with Mario Forni), Journal of Monetary Economics, vol. 66(C):124-136, 2014
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Education
PhD in Economics, London School of Economics, 1996

Research Interests
Labor Economics, Macroeconomics

Selected Works

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Education
PhD in Economics, Northwestern University, 2001

Research Interests
Game Theory, Political Economy

Selected Works
• The Role of Commitment in Bilateral Trade, Journal of Economic Theory, 2014, 154: 578-603, with Johannes Hörner and Lucas Maestri
• A Principal-Agent Model of Sequential Testing, Theoretical Economics, 2012, 7: 425-463, with Lucas Maestri
• Communication and Learning, Review of Economic Studies, 79: 419-450, April 2012, with Luca Anderlini and Roger Lagunoff
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Education
PhD in Economics, Princeton University, 2012

Research Interests
Game Theory, Behavioral Economics, Political Economics

Selected Works
• Reference Dependence, Risky Projects and Credible Information Transmission, 2011.
• Electoral Speeches and Reference Dependence: Can Politicians’ Announcements be Credible?, 2011

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Education
PhD in Economics, Northwestern University, 2013

Research Interests
Behavioral Economics, Industrial Organization

Selected Works
• Time Inconsistency and Alcohol Sales Restrictions, European Economic Review, 2016, 87: 108-131
• Gender Inequality in New Media: Evidence from Wikipedia, May 2015
• Do cigarette taxes promote healthy behaviors?, with Paul Grieco and Andrea Pozzi
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Education
PhD in Mathematics, Université de Franche-Comté, Besançon, France, 2002

Research Interests
Mathematical methods, Functional inequalities, Evolution equations

Selected Works

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Education
PhD in Economics, Northwestern University, 2012

Research Interests
Microeconomic theory, mechanism design, applied microeconomics

Selected Works
- Overbooking (with Jeffrey Ely and Dan Garrett), Journal of the European Economic Association, forthcoming
- On the impossibility of protecting risk-takers, Economic Journal, forthcoming
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Education
Phd in Financial Economics, Swiss Finance Institute and University of Lausanne 2013

Research Interests
Financial Economics, Asset Pricing, Macro-Finance, Mathemtical Finance

Selected Works
• Income insurance and the equilibrium term-structure of equity, Journal of Finance (forthcoming)
• Should investors learn about the timing of equity risk?, with Michael Hasler and Mariana Khapko, Journal of Financial Economics (forthcoming)

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Education
PhD in Economics, Princeton University, 2006

Research Interests
Public Economics, Labor Economics, Economics of Crime, Applied Econometrics

Selected Works
• The Euro Changeover and Its Effects on Price Transparency and Inflation, Journal of Money, Credit, and Banking 41 (2009): 101-129, with Wioletta Dziuda
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Education
PhD in Economics, University of Wisconsin–Madison, 2010
Research Interests
Microeconomic Theory, Game Theory, Social Learning, Search and Matching

Selected Works

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Education
PhD in Economics, Université Catholique de Louvain (Belgium), 2008
PhD in Applied Mathematics, University of Trieste, 2000

Research Interests

Selected Works
• Embodied Technological Change and Technological Revolution: Which Sectors Matter?, 2013, *Journal of Macroeconomics* 37, 249–264
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Education
Bachelor Degree in Sciences of Communication, University of Turin, 1997

Activities
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Education
PhD in Economics, University of Toronto, 2017

Research Interests
Development Economics, Political Economy, Applied Microeconomics

Selected Works
- Legislating During War: Conflict and Politics in Colombia
- The Impact of Internal Displacement on Receiving Communities: Evidence from the Colombian Conflict
- Conditional Cash Transfers for Women and Spousal Violence: Evidence of the Long-Term Relationship from the Oportunidades Program in Rural Mexico (with Gustavo J. Bobonis and Roberto Castro)
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Education
PhD in Mathematical Statistics, University of Pavia, 2003

Research Interests
Bayesian Nonparametrics, Bayesian Consistency, Mixture Models, Species Sampling, Random Measures

Selected Works

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Education
Doctorat de Troisième Cycle, Université de Rennes (FR), 1975

Research Interests

Selected Works
• Translations in the exponential Orlicz space with Gaussian weight. arXiv:1708.09555. Submitted to GSI 2017
• Moments of the multivariate Gaussian complex random variable, with C. Fassino, E. Riccomagno, M.P. Rogantin,
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PhD in Statistics, Università Commerciale “L. Bocconi”, 2007

Research Interests
Bayesian Nonparametric Statistics, Stochastic Processes

Selected Works

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Education
PhD in Economics, Columbia University, 2005

Research Interests
Macroeconomics, International Finance, Public Finance, Labor Economics

Selected Works
• Intergenerational Altruism and House Prices: Evidence from bequest Tax Reforms in Italy, with Giorgio Bellettini and Giulio Zanella, European Economic Review (Lead Article), Volume 92, 1-12, February 2017
• Bequest Taxes, Donations, and House Prices, with Giorgio Bellettini and Giulio Zanella, BE Journal of Macroeconomics (Contributions), Volume 13, Issue 1, October 2013
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Education
PhD in Applied Mathematics, Università di Trieste, 2000

Research Interests
Actuarial Science, Portfolio Selection

Selected Works
• Mean-variance target-based optimisation for defined contribution pension schemes in a stochastic framework, with F. Menoncin, Insurance: Mathematics and Economics 76, 172-184, 2017
THE COLLEGIUM THINKS ABOUT THE ENVIRONMENT

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