

## Education

### 2019 - TBD Polytechnique Montréal, MSc&PhD in Mathematics

Supervised by Prof. Andrea Lodi. MSc in Applied Mathematics. PhD program in Mathematics.  
Topics: Mathematical Optimization and Machine Learning.

Coursework: Integer Programming, Algorithm design and Analysis, Applied Machine Learning (McGill)

### 2015 - 2018 Politecnico di Torino, BSc in Industrial Engineering (CS Path)

- Scholarship of [Percorso Giovani Talenti](#) (Excellence track) with GPA: 3.5/4
- Graduated *a semester in advance* (w.r.t the official duration) with 104/110 as of 20th March 2018.
- Thesis in **Operations Research and Combinatorial Optimization**: "Fair players allocation in ATP Tournaments generation: a combinatorial optimisation approach."  
Supervised by Prof. F. [Della Croce](#) and Dr. R. Scatamacchia [[Code](#)] [[Thesis](#)]
- Coursework: All my [[Notes](#)] are online. Operations Research, Mathematical Analysis I, MatLAB and Geometry, Object Oriented Programming, Computer Science, Economics and business organisation, Energy Progress and Sustainability, Strategic Management, Computer Networking, Databases.

### 2017 - 2017 Tampere University of Technology, Exchange Student (CS and Ind.Eng)

- ERASMUS+ Exchange student in Industrial Engineering and CS Faculties. GPA: 3.75/4.
- Coursework: Technology and Innovation Management, Turning Technology into Business, P2P & IoT, Software Business, Computer Networking I.

### 2010 - 2015 IIS Majorana Moncalieri, Applied Sciences Diploma

- Graduated with 100 cum Laude/100. GPA of 9.6/10 - ranked first-student in the year by GPA.
- National [index for excellence](#) - Italian Ministry of Education (Albo Nazionale delle Eccellenze INDIRE) index for excellence as of Maturità exams of 2015.
- SAT Math: 720 — SAT Math 1: 730 — SAT Math 2: 740
- Other: Student Body President (2 terms), Founder M1 Online (newspaper + Mobile App), School Board member

## Experience

### 2018 - 2018 Politecnico di Torino, Research Assistant in OR

- DIGEP department. "Models and Algorithms of Mathematical Programming and Artificial Intelligence for problems of Combinatorial Design" supervised by Prof. F. [Della Croce](#) and Prof. [Fabio Salassa](#) from March to December 2018.
- Mathematical models for discrete-mathematics problems, in particular, combinatorial design.
- Mathematical programming, in particular: MIP, CP. [[Some codes](#)]
- Heuristic approaches for combinatorial Optimization.
- Applied OR for sport scheduling, in particular Tennis scheduling.

### 2015 - 2018 CEAN SpA, Summer Intern - IT Developer - CIO

The position involved the management of IT system and the design of information system for the family business.

- Project Manager in charge of ERP implementation: Salesforce CRM and eSolver ERP (2015-2018)
- Developer of CEAN 360 App ([iOS](#)).
- Asana performance metric system for evaluation of employee productivity.
- Project Manager, mentor and judge for Google Startup Weekend Retail (Turin on March 2016), joint with the [I3P@Politecnico di Torino](#).
- Founder of CEAN Color: a creative branch employing more than 12 designers and coders.
- Information systems management, IT infrastructure.

2016 - 2017 IIS Majorana Moncalieri, Contract teacher

Teacher for extracurricular courses "2016 - Brands" and "2017 - CEAN Next" for last-year high-school students.

Talks & Conf-s

JOpt 2019 - Montreal, May 2019 ([Slides] - Stream Mathematics and Graphs)  
EURO 2018 - Valencia, July 2018 ([Slides] - Stream OR in Sports)  
Politecnico di Torino - Torino, June 2018 ([Slides] - OR Course seminar)  
Fairness in Sport - Ghent, April 2018 ([OR in Sports], attendance)

Publications

Della Croce, F., Dragotto, G. and Scatamacchia, R., 2019.  
*Introducing fairness and diversification in WTA and ATP tennis tournaments generation.*  
[Submitted and under review] arXiv preprint [1901.05387] and [Code]

Salassa, F., Dragotto, G., Traetta, T., Della Croce, F. and Buratti, M., 2019  
*Merging Combinatorial Design and Optimization: the Oberwolfach Problem.*  
[Preparing for Submission] arXiv preprint [1903.12112]

Della Croce, F., Dragotto, G. and Salassa, F., 2019.  
*IP finds Partitioned Balanced Tournament Designs.*  
[Working Paper]

Languages

English Full professional and academic proficiency TOEFL iBT 103 (July 2016)  
French Elementary proficiency  
Italian Native proficiency

Skills

MISC Python - Java - C++ - Bash - SQL  
MATH Latex - MatLab - Gephi - CPLEX - Julia  
ML Sci-kit - PyTorch - Tensorflow - OpenCV  
WEB PHP - HTML - CSS - Javascript - jQuery - OnsenUI  
MOBILE PhoneGAP framework - Apple objectiveC - Swift

Hobbies

Contemporary Arts      Running      Books      Vinyls  
Swimming                  Hiking      Guitar

Volunteering

Jan 2018 TEDxTorino, co-presenter  
Jun 2015 Area\_G Piemonte, Video Maker

Press

May 2016 *20 Ventenni di successo* [La Repubblica D]  
Apr 2018 *Il Politecnico studia la Matematica del Tennis* [La Stampa] [Università Bocconi]

Montréal,  
May the 15th 2019

*Galileo Dragotto*