

# Elena Di Lavore

Born in Milano, Italy, 13/08/1995

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## Education

### Tallinn University of Technology

*PhD*

Estonia

2019 - present

- Thesis topic: Compositional game theory  
Supervisors: Dr Julian Hedges, Professor Pawel Sobocinski
- Courses:  
Functional programming

### University of Oxford

*MSc in Mathematics and Foundations of Computer Science*

United Kingdom

2018 - 2019

- Thesis: Subgame perfection in compositional game theory  
Supervisors: Dr Julian Hedges, Dr Jamie Vicary
- Mark: merit
- Courses:  
Categories, proofs and processes                      Quantum computer science  
Categorical quantum mechanics                      Graph theory  
Axiomatic set theory                      Lambda calculus and types  
Computational number theory

### Università di Pisa

*BSc in Mathematics*

Italy

2017 - 2018

- Thesis: Data-driven Estimation for Nash Equilibria  
Supervisor: Professor Giancarlo Bigi
- Mark: 110 cum laude / 110
- Courses:  
Arithmetic                      Elements of set theory  
Experimental laboratory of computational                      Physics 3  
mathematics  
Geometry 2                      Algebra 1  
Mathematical logic                      Game theory

### Politecnico di Milano

*BSc in Mathematical Engineering*

Italy

2014 - 2017

- Thesis: Floquet Theory Applied to a Perturbed Wave Equation  
Supervisor: Professor Gianni Arioli
- Mark: 110 cum laude / 110
- Studies abroad: Erasmus program at Linnaeus University, Växjö, Sweden (August 2016 - January 2017)
- Courses:

Computer science	Mathematical Analysis 1, 2, 3
Chemistry	Experimental physics 1, 2
Business economics and organization	Statistics
Electrical engineering	Linear algebra and geometry
Fundamentals of automatic controls	Probability
Mathematical physics	Numerical mathematics
Advanced analog electronics	P.D.E. analytical and numerical methods
Algorithms and advanced data structures	Functional analysis
Analysis of structures	Models and methods for statistical inference
Algebraic structures 1	

## Interests and other skills

### Academic interests

- Applied category theory, Compositional game theory
- Attended the conferences SYCO2 (Glasgow, December 2018), SYCO3 (Oxford, March 2019), CT 2019 (Edinburgh, July 2019), ACT (July 2019), STRINGS3 and SYCO5 (Birmingham, September 2019), ItaCa (Milan, December 2019)

### Language skills

- Italian: mother tongue
- English: C1

### Programming languages

- Idris
- C, Java: basic knowledge
- MATLAB, R, SQL: basic knowledge

## Grants

Best Freshers Award (Politecnico di Milano) . . . . . 2015  
 Exemptions for High Academic Performance (Politecnico di Milano) . . . . . 2015-2017