I am a student of the Master in Mathematics and Foundations of Computer Science at Oxford. My background includes category theory, logic and game theory. In particular, last term I took the courses Categories, Proofs and Processes, Quantum Computer Science and I am taking Categorical Quantum Mechanics.

I will have time to dedicate to this project as I will have completed all the necessary exams for my course by the end of March. However, I will be able to be in Oxford all the time that is required for the project.

My interest in category theory started with the courses I took last term. In particular, I am very curious about applications of category theory. I attended the SYCO 2 conference that took place in Glasgow in November, where the main topic was compositional structures and their categorical models. I am planning to write my master's dissertation on open games, which are one example of compositional structures.

This summer school would be crucial to expand my knowledge about the research topic I am interested in. The project 'Toward a mathematical foundation for autopoiesis' perfectly fits my interest. In fact, I am particularly passionate about modelling systems that involve some decision-making process and it can be possibly applied to situations concerning human interactions. Furthermore, I am happy to further my knowledge about the theoretical tools needed for this project since, as mentioned above, I am very curious about both logic and category theory.

Being a master's student, I am not sure yet about the exact topic of my PhD but I applied to a research group that is focussing on modelling phenomena like the diffusion of information with modal logic and possibly integrating these models with game theoretic tools.

ELENA
DI LAVORE
CURRICULUM VITAE

dal 1994 Consorzio Interuniversitario AlmaLaurea
Un ponte fra Università e mondo del lavoro e delle professioni

Born / **13/08/1995** Age / **23**
Place of birth / **MILANO (MI)**
Nationality/ citizenship / **Italy**
Address / **P.zza 6 febbraio 10, 20145 MILANO (MI)**
ID / **4768087** updated on **18/01/19**

elenatalita@gmail.com
+39 3665334335

FOREIGN LANGUAGE SKILLS

europass

MOTHER TONGUE(S): **Italian**

ENGLISH EXCELLENT	C1	C1	C1	C1	C1

DIGITAL COMPETENCES

BASIC DIGITAL COMPETENCE
Operating systems Good
Programming languages Good
Word processing Excellent
Electronic spreadsheet Excellent
Data base administrators Fair
Internet skills Excellent

EXPECTATIONS AND FEATURES OF THE DESIRED JOB

INTENTION TO CONTINUE STUDIES: **Yes** / Graduate studies

ACADEMIC STUDIES

MASTER'S DEGREE
2018 - 2019
ONGOING STUDIES
UNITED KINGDOM

University of Oxford
Master in mathematics and foundations of computer science
Expected graduation date: 2019

BACHELOR'S DEGREE
2017 - 2018

Università di PISA
Dipartimento di Matematica
Matematica
L-35 - 1st level degree in Mathematics
Dissertation/thesis title: Data-driven estimation for Nash equilibria | Dissertation/thesis subject: Game theory | Thesis supervisor: Professor Giancarlo Bigi
Age at graduation: 23 | Official duration: 3 years
Final degree mark: **110/110 cum laude**
Graduation date: 21/09/2018

BACHELOR'S DEGREE
2014 - 2017

Politecnico di MILANO
Facoltà di Ingegneria
Corso di laurea in ingegneria matematica
L-9 - 1st level degree in Ingegneria industriale
Dissertation/thesis title: Floquet Theory applied to a perturbed wave equation | Thesis supervisor: Professor Gianni Arioli
Age at graduation: 21 | Official duration: 3 years
Final degree mark: **110/110 cum laude**
Graduation date: 25/07/2017

INFORMATION TECHNOLOGY SKILLS

ICT CERTIFICATES
ECDL o titolo equivalente

PROGRAMMING LANGUAGES KNOWN
Java, C, sql, Python, matlab, R

STUDIES AND EXPERIENCES ABROAD

SWEDEN
2016

European Union program (Erasmus)
At: Linnaeus University
Place: **Vaxjo (Sweden)** | Language: English | Duration: 5 (months)

Gmail **Applied Category Theory <act2019school@gmail.com>**

Reference for Elena di Lavore

1 message

Jamie Vicary <jamie.vicary@cs.ox.ac.uk> Wed, Jan 30, 2019 at 1:10 PM
Reply-To: jamie.vicary@cs.ox.ac.uk
To: act2019school@gmail.com

Hi,

This is a reference for Elena di Lavore to support her application for the ACT Summer School.

Elena is currently studying for the MFoCS programme here in Oxford. She is an exceptional student, achieving 91% in her Categories, Proofs and Processes exam, and strong distinctions in her other courses. She has great aspirations to go into research. I support her application in the strongest possible terms.

Best wishes,
Jamie