



DANIA LAZZARINI

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Born June 3, 1999

EDUCATION

AY 2025/26 – present

PhD in Sciences

Université Libre de Bruxelles, Faculty of Sciences

- Project Title: Ideal-To-Isogeny Algorithms, and Applications to Post-Quantum Signatures
Supervisor: Prof. Christophe Petit
- Department of Scheduling, Optimization and Security

AY 2022/23 – AY 2023/2024

Master Degree in Mathematics

University of Pisa, Department of Mathematics

- Final mark: 110/110 cum laude
Thesis Title: Hessian Transformation on the Generalized Hesse Pencil and Corresponding Graphs
Thesis supervisors: Prof. Davide Lombardo, Dr. Marzio Mula, Prof. Federico Pintore, Dr. Daniele Taufer
Dissertation date: February 21, 2025
- Curriculum in Algebra

AY 2018/19 – AY 2020/21

Bachelor Degree in Mathematics

University of Pisa, Department of Mathematics

- Final mark: 110/110
Thesis Title: Elliptic curves with complex multiplication: abelian extensions of imaginary quadratic fields
Thesis supervisor: Prof. Andrea Bandini
Dissertation date: June 10, 2022
- Computational Curriculum

SY 2013/14 – SY 2017/18

Liceo Classico High School

Liceo Classico Giosuè Carducci, Viareggio (LU)

- Final mark: 100/100

AWARDS AND GRANTS

December 2025 – present

FRIA Doctoral Grant – 1st grant

Fonds de la Recherche Scientifique - FNRS

- Project Title: Ideal-To-Isogeny Algorithms, and Applications to Post-Quantum Signatures
- position accepted
- retroactively effective from October 2025

June, 2025

INdAM Final Award

for the excellent results and thesis during the Master Degree in Mathematics

April, 2025

SNS Doctoral Grant

Scuola Normale Superiore di Pisa

- PhD Program in Computational methods and mathematical models for sciences and finance
- position rejected

May, 2023 – February, 2025

INdAM merit-based scholarship for master students in Mathematics

National Institute for Higher Mathematics "F. Severi" (INdAM), Italy

- Member of INdAM Research Group GNSAGA (National Group for Algebraic and Geometric Structures and their Applications)
- retroactively effective from September 2022

CONFERENCES AND SCHOOLS

July 20-24, 2026

Quantum Cryptanalysis of Post-Quantum Algorithms (QCPQA) workshop

University of Manchester, United Kingdom

- invited talk: "Quantum Cryptanalysis of Class Group Actions"

June 22, 2026

The BRISONS

University of Manchester, United Kingdom

- contributed talk: "Isogeny Computations in the Level-4 Mumford Model"

June 17, 2026

UK Crypto Day

University of Bristol, United Kingdom

May 9-10, 2026

The Isogeny Club Brainstorm Days

Eurocrypt affiliated event at Sapienza University of Rome, Italy

May 5-8, 2026

MaGIC Workshop on Group Actions in Cryptography

Borgo Lanciano, Castelraimondo, Italy

January 19-30, 2026

Isogeny-Based Cryptography (TP25IC) Workshop

Okinawa Institute of Science and Technology (OIST), Japan

<i>September 22, 2025</i>	Arithmétique en Plat Pays: Journée Estivale KU Leuven, Department of Mathematics
<i>September 10-11-12, 2025</i>	Leuven Isogeny Days 6 KU Leuven, ESAT
<i>May 19-23, 2025</i>	Advances in Cryptography and Codes – Part 1: SQIsign PhD Course at University of Trento
<i>February 24-28, 2025</i>	Geometry, Algebra and Combinatorics of Moduli Spaces and Configurations VII Winter School in Dobbiaco (Toblach), Italy
<i>November 28-29, 2024</i>	Young Cryptographers in Genova 2024 University of Genova, Department of Mathematics
<i>November 23, 2024</i>	Grasping Groups: Workshop in Pisa University of Pisa, Department of Mathematics • organizer of the event
<i>November 21, 2024</i>	Pisa Quantum Festival University of Pisa, Department of Informatics
<i>September 9-13, 2024</i>	Introductory Summer School on Post-Quantum Algebraic Cryptography Institut d'Études Scientifiques, Cargèse, Corsica

RESEARCH VISITS

<i>June 16–24, 2026</i>	Research Visit at University of Birmingham hosted by Dr Luciano Maino
<i>June 30–July 4, 2025</i>	Research Retreat at Université Libre de Bruxelles hosted by Prof Christophe Petit

RESEARCH ACTIVITIES

<i>November, 2025 – present</i>	KULB Isocrypt Seminars joint monthly seminar series between KULeuven and ULB cryptography research groups on post-quantum cryptography
<i>November, 2024 – present</i>	Bham-ULB Crypto Reading Group joint weekly seminar series between Bham and ULB cryptography research groups on post-quantum cryptography
<i>November, 2024 – February, 2025</i>	Reading Group on the quadratic Chabauty method University of Pisa, Department of Mathematics

TEACHING EXPERIENCES

<i>September, 2021 – December, 2024</i>	Tutor for Mathematics and Programming courses University of Pisa, Departments of Mathematics, Engineering and Biology
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LANGUAGE SKILLS

Italian – Native language
English – C1
Spanish – A2
French – A1

COMPUTATIONAL SKILLS

C, C++, $\LaTeX$, MAGMA, MATLAB, SageMath

INTERESTS

Music
Piano (2005 – 2017)
Achievement of pre-academic exams at Conservatorio di Musica "Pietro Mascagni" (Livorno)