Carozza Eliana

Nationality: Italian   **Date of birth:** 17/06/1998   ✉ **Email address:** carozzaeliana@libero.it

🌐 **Website:** https://elianacarozza.github.io/

ABOUT ME

PhD Research Associate in advanced post-quantum cryptography

WORK EXPERIENCE

Research Fellow - PhD

Université de Paris [30/09/2021 – Current]

City: Paris | **Country:** France

PhD in Computer Science, specializing in code-based post-quantum cryptography.
Expert in signatures, zero-knowledge protocols, and MPC-in-the-head.

Internship

Cryptoexpert [11/2023 – 03/2024]

City: Paris | **Country:** France

PUBLICATIONS

[2024]
On Threshold Signatures from MPC-in-the-Head

Eliana Carozza, Geoffroy Couteau

[2024]
Short Signatures from Regular Syndrome Decoding, Revisited
IACR publication presented in ASIACRYPT 2024

Dung Bui, Eliana Carozza, Geoffroy Couteau, Dahmun Goudarzi, Antoine Joux

[2023]
Short Signatures from Regular Syndrome Decoding in the Head
IACR publication presented in EUROCRYPT 2023

Eliana Carozza, Geoffroy Couteau, Antoine Joux

TEACHING

[09/2024 – Current]
Teaching Assistant in Informatic

Teaching Assistant for the "Informatique" course at the Department of Computer Science, Paris Diderot University.

[09/2024 – Current]
Teaching Assistant for in Introduction à la programmation Python

Teaching Assistant for the "Introduction à la programmation Python" course at the Department of Computer Science, Paris Diderot University.

[09/2023 – 01/2024]
Teaching Assistantship in Introduction aux systèmes d'exploitation

Teaching Assistant for the "Introduction aux systèmes d'exploitation" course at the Department of Computer Science, Paris Diderot University.

[09/2023 – 01/2024]
Teaching Assistantship in Introduction à la programmation Python

Teaching Assistant for the "Introduction à la programmation Python" course at the Department of Computer Science, Paris Diderot University.

[09/2020 – 02/2021]
Teaching Assistantship in Algebra

Teaching Assistant for the Algebra course in the first year of the Master's program at the Department of Mathematics, University of Rome.

EDUCATION AND TRAINING

Phd in Matematics
Institut de Recherche en Informatique Fondamentale - Université Paris Diderot [30/09/2021 – Current]

Address: 8 Pl. Aurélie Nemours, 75013 Paris (France) | **Website:** https://www.irif.fr | **Field(s) of study:** Post quantum cryptography

Financial Controller Master
Melius Form [13/11/2020 – 28/05/2021]

Address: Via Duilio, 12, 00192 Rome (RM) (Italy) | **Website:** https://www.meliusform.it/ | **Field(s) of study:** Business, administration and law: ● Finance, banking and insurance | **Level in EQF:** EQF level 7

Master of Mathematics
Univserità degli studi Roma Tre [09/2019 – 17/03/2021]

Address: Via Ostiense, 159, 00154 Rome (RM) (Italy) | **Website:** https://www.uniroma3.it/ | **Field(s) of study:** Natural sciences, mathematics and statistics: ● Mathematics | **Final grade:** Cum Laude | **Level in EQF:** EQF level 7 | **NQF Level:** Master's Degree | **Thesis:** Isogeny- based post-quantum cryptography

Bachelor of Mathematics
Università degli Sudi di Salerno [09/2016 – 07/2019]

Address: Via Giovanni Paolo II, 132, 84084 Fisciano (SA) (Italy) | **Website:** https://www.unisa.it/ | **Field(s) of study:** Natural sciences, mathematics and statistics: ● Mathematics | **Final grade:** Cum Laude | **Level in EQF:** EQF level 6 | **NQF Level:** Bachelor's Degree | **Thesis:** Finite field and cryptography

Scientific high school diploma
Liceo scientifico "A. Diaz" [08/2011 – 07/2016]

Address: 81020 Caserta (CE) (Italy) | **Website:** https://www.liceodiazce.edu.it/ | **Final grade:** Cum Laude | **Level in EQF:** EQF level 4 | **NQF Level:** Scientific diploma

COURSES

[29/08/2021 – 02/09/2021]
CISPA SUMMER SCHOOL 2021: Coding Techniques & Advanced Post-Quantum Cryptography

[23/05/2021 – 27/05/2021]
UNCG Summer School 2021: Applications of Expander Graphs to Number Theory and Computer Science

[06/2019 – 08/2019]
Corso di formazione in Trasferimento delle Tecnologie Matematiche per l'Innovazione

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English	**French**
LISTENING C1 **READING** C1 **WRITING** C1	**LISTENING** C1 **READING** C1 **WRITING** C1
SPOKEN PRODUCTION B2 **SPOKEN INTERACTION** B2	**SPOKEN PRODUCTION** B2 **SPOKEN INTERACTION** B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Software Skills

C / C++ / Pyton / Linux / Java / SQL