Alexandros Themelis

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EDUCATION

UNIVERSITÉ PARIS-CITÉ

M2 LEVEL MSC STUDENT AT THE PARISIAN MASTER OF RESEARCH IN COMPUTER SCIENCE (MPRI) September 2023

UNIVERSITY OF ATHENS

UNDERGRADUATE DEGREE IN DEPARTMENT OF INFORMATICS & TELECOMMUNICATIONS
October 2019- July 2023
GPA: 8.02/10

Track A (conforming to ACM "Computer Science" curriculum) Specialization: Foundations of Computer Science

Github: AlexThemelis
LinkedIn: Alexandros Themelis

SKILLS

PROGRAMMING

Mathematical Software:
SageMath • MatLab
Programming Languages:
C • C++ • Python • Rust
Had interaction with:
OCaml-based provers
(F*,Why3,CryptoVerif) • Java • Prolog •
Assembly(MIPS) • SQL

MISCELLANEOUS

Shell programming • git • CGAL (The Computational Geometry Algorithms Library - C++) • zkSNARK programming (arkworks,dusk_network/plonk) • LEX • Beamer(LETX) • Microsoft Office

TRAININGS

Specialization trainings from the NKUA, Accesibility Unit:
Support for students on the Autism
Spectrum • Guiding techniques for blind students • Interaction with assistance dogs • Guiding techniques for students who use wheelchairs • Support for students with hearing loss • Support for students with print-disabilities

LANGUAGES

Greek: Native, English: Proficiency (C2) French: Elementary (around A2 level)

PROJECTS

M2 Internship (March-August), IRIF - Paris Cité University,
 "Advanced Post-Quantum Signatures", supervised by Geoffroy Couteau
 - Working on threshold Post-Quantum Signatures based on Lattices
 - Code-based signatures via an MPC-in-the-head approach
 Eulambia, Advanced Technologies Ltd, 1 month Summer Internship,
 - Presentation of Post-Quantum Primitives (Lattice-based cryptography)
 - Experimentation with existing implementations PQC KEMs
 - Hybrid (QKD/PQC) construction
 Thesis: Hash-based signatures with the use of SNARKS (link),
 theoretical research and implementation with PLONK in Rust,
 supervised by Pyrros Chaidos

PARTICIPATIONS

Cloud architecture design on Amazon Web Services (link)

2022-2023 Active Member @ Google Developer Student Club - University Of Athens
2022 Erasmus CIVIS exchange student to Universidad Autonoma de Madrid
for the Spring Semester
2020 Participated in the IMC - International Mathematics Competition (Online)
2019-2023 Participating in preparation lessons for the SEEMOUS and IMC contests

2023 Participated in 1st BEST Patras Hackathon 2023,

SEMINARS/WORKSHOPS

Diophantine Equations Seminar: Elliptic Curves, Modular Forms and Modular Method, 2-month weekly seminar, AUTH
 Sage Days 123 - I-sage-ny Days, January 2024, Leuven
 18th Athens Colloquium on Algorithms and Complexity
 Athecrypt 2023
 2021 20th Annual Athens Programming Language Seminar
 Summer School in Post-Quantum Cryptography 2022, Budapest
 57th/58th Summer School at NCSR DEMOKRITOS
 4th MATH@NTUA summer school on Number Theory and Cryptography

EXTRACURRICULAR ACTIVITIES

2023-2024 Member of the Université Paris Cité Endurance Running Team
 2021 3rd place at Track and Field Greek National Championship U23 - 4x400
 2019 Graduated from Music High School of Pallini (18.9/20)
 Perfect score (20/20) in Mathematics section
 in the Greek National University Entrance Exams

VOLUNTEERING

Technical Support in the seminar "Cinema and Disabilities", Cinema Sector,
 University of Athens Cultural Club
 Lab assistant at the undergraduate class "Introduction to Programming"

2021-2023 Volunteer at Voluntary Service Accesibility Unit NKUA
Helped on studying the courses "Digital Signal Processing",
"Operating Systems", "Cryptography" students on the Autism Spectrum
Helped on studying the courses "Object-oriented programming",
"Systems programming" a student with ADHD

2020 Volunteer at UOA open days, Dept. of Informatics & Telecommunications