

Education

PhD Cyber Security, Privacy and Trust

Edinburgh, UK

University of Edinburgh

May. 2023 - Apr. 2026 (expected)

- Researching all aspects of blockchain decentralization, including how to define it, how to measure it and how to design mechanisms that induce it
- Advised by Prof. Aggelos Kiayias

MSc Advanced Technology for Financial Computing

Edinburgh, UK

University of Edinburgh

Sep. 2020 - Aug. 2021

- Graduated with Distinction (82 / 100)
- Dissertation: Convergence and Equilibria of Proof-of-Stake Blockchains (Grade: 85 / 100)

Degree in Informatics

Thessaloniki, Greece Sep. 2014 - July 2018

ARISTOTLE UNIVERSITY OF THESSALONIKI

- Graduated with Distinction (9.24 / 10) First in Class
- Diploma Thesis: Applying Data Mining Techniques in Product Promotions (Grade: 10 / 10)

Work Experience _

Research Engineer Edinburgh, UK

BLOCKCHAIN TECHNOLOGY LAB, UNIVERSITY OF EDINBURGH

Sept. 2021 - Apr. 2023

 Developed a simulation engine for reward mechanisms of Proof-of-Stake blockchains, applying game-theoretic models to assess equilibrium properties and inform protocol design.

Software Engineer Heraklion, Greece

CHANNEL VAS

Feb. - Aug. 2020

• Maintained and developed software for serving the company's purpose of providing reliable mobile financial services. Used Java, PostgreSQL and other technologies.

Consultant Toulouse, France

AKKA TECHNOLOGIES

Sep. 2018 - Nov. 2019

- Product Owner at *Airbus* (on-site subcontractor): Acted as the focal point for a Flight Test Factory project. Coordinated cross-functional teams using Agile Methodologies (SAFe).
- Internal projects: Analyzed financial and project management data to create interactive dashboards (Python, R, Power BI). Composed technical reports and comprehensive tutorials.

Invited Talks

Science of Blockchain Conference (SBC)

Berkeley, USA

"Measuring Blockchain Decentralization"

Aug. 2025

International Conference on Applied Cryptography and Network Security (ACNS)

Munich, Germany

"SoK: Measuring Blockchain Decentralization"

Jun. 2025

Webinar: A Toolbox for Regulators and Users to Measure Blockchain Decentralization

Edinburgh, UK

"Edinburgh Decentralization Index"

May 2025

Scottish Government Workshop: Digital Identity and Trust

Edinburgh, UK

"Decentralization & the Edinburgh Decentralization Index (EDI)"

Sep. 2024

Financial Cryptography and Data Security (FC)

Willemstad, Curaçao

"SoK: A Stratified Approach to Blockchain Decentralization"

Mar. 2024

International School on Foundations of Security Analysis and Design (FOSAD)

Bertinoro, Italy

"Blockchain Decentralization: A Stratified Approach"

Aug. 2023

Cardano CIP-1694 Community Workshop

"Edinburgh Decentralization Index (EDI)"

IOG - University of Edinburgh Research Week

"Rewards Sharing Simulation Engine"

Edinburgh, UK Nov. 2022

Edinburgh, UK

ACM International Conference on AI in Finance (ICAIF)

"Decentralization Analysis of Pooling Behavior in Cardano Proof of Stake"

New York, USA

Nov. 2022

Jul. 2023

Publications

SoK: Measuring Blockchain Decentralization

Christina Ovezik, Dimitris Karakostas, Mary Milad, Aggelos Kiayias, Daniel W. Woods 23rd International Conference on Applied Cryptography and Network Security (2025)

SoK: A Stratified Approach to Blockchain Decentralization

Christina Ovezik, Dimitris Karakostas, Aggelos Kiayias 28th International Conference Financial Cryptography and Data Security (2024)

Statistical Confidence in Mining Power Estimates for PoW Blockchains

Mary Milad, Christina Ovezik, Dimitris Karakostas, Daniel W. Woods 3rd International Cryptoasset Analytics Workshop (2024)

Decentralization Analysis of Pooling Behavior in Cardano Proof of Stake

Christina Ovezik and Aggelos Kiayias 3rd ACM International Conference on AI in Finance (2022)

Teaching and Supervision.

Blockchains and Distributed Ledgers (BDL), University of Edinburgh

TEACHING ASSISTANT, 2022 - PRESENT

Delivered a lecture on smart contracts and undertook various other duties, including designing exams, marking coursework and responding to student questions.

Introduction to Modern Cryptography (IMC), University of Edinburgh

TUTOR, 2024

Delivered cryptography tutorials to small groups of UG and MSc students.

MSc Dissertations, University of Edinburgh

TEACHING ASSISTANT, 2023

Co-supervised 8 MSc students with blockchain-related dissertation projects, such as extracting data from full nodes and simulating blockchain reward schemes.

Awards and Scholarships

Advanced Technology for Financial Computing MSc Dissertation Prize (2021)

For Highest Mark in the Advanced Technology for Financial Computing MSc Dissertation, University of Edinburgh

Claire Jones Prize (2021)

For Best Performing Female Student in the School of Informatics, University of Edinburgh

A.G. Leventis Foundation Educational Grant (2020)

Merit-based grant to support MSc studies

Syn-enosis Scholarship (2020)

Merit-based grant to support MSc studies

Hypatia Award (2018)

For Best Performing Female Student in the School of Informatics, Aristotle University of Thessaloniki

Academic Service

Program Committee: AFT workshop on Scalability & Interoperability of Blockchains (SIB) 2024

Reviewer: AFT 2024, CANS 2024, DLT 2024, MARBLE 2023-24, Tokenomics 2023, DAPPS 2023

Skills

Languages: Greek (Native), English (Proficient), French (Intermediate) **Programming:** Python, Java, Solidity, SQL, R, Javascript, Git, REST

Volunteering

Prewired Edinburgh, UK

TREASURER AND MENTOR May 2022 - Present

Refugee Community Kitchen Edinburgh, UK

FUNDRAISING VOLUNTEER Dec. 2020 - May 2022

9th Hellenic Conference on Artificial Intelligence

Thessaloniki, Greece TECHNICAL AND ADMIN SUPPORT VOLUNTEER Oct. 2016