

ELENA PETRESKA

Ph.D. in Physics

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Professional Summary

- Five years of postdoctoral research with extensive publication record, [researchgate.net/profile/Elena-Petreska](https://www.researchgate.net/profile/Elena-Petreska)
- Experienced with blockchain technology, Web3, protocol design, EVM, DeFi, smart contracts and Solidity.
- Coded a full stack NFT Marketplace on GitHub (github.com/Epetreska/full-stack-nft-marketplace).
- Extensive knowledge of L2 and L3 design, MEV, consensus algorithms, cryptoeconomics and game theory.
- Ten years of experience analyzing academic papers and developing new research directions.
- Presenter at over 20 international conferences and workshops, including invited plenary presentations.

Skills

Technical skills

- Solidity, Hardhat, IPFS
- Next.js, Typescript, Ethers.js
- Incentive design, consensus algorithms, game theory.
- Python, Qiskit, Mathematica
- LaTeX
- Quantum physics, statistics

Technical writing and communication

- Extensive experience writing scientific articles and presenting at conferences
- Strong in explaining complex concepts in a simple language
- Easily adjusting to specific clients, audience, and professional profiles

Teamwork

- Strong team member and ability to cooperate with different professionals
- Ability to lead international collaborations and work with globally distributed team

Interpersonal

- Excellent in learning quickly and adapting to unforeseen problems
- Strong performance under pressure

Experience

Protocol researcher

June 2024 – present **Nethermind**

Postdoctoral researcher

2016-2020 **Vrije Universiteit Amsterdam & Nikhef** (Dutch National Institute for Subatomic Physics)

2015-2016 **Santiago de Compostela University**, Spain

2014-2015 **Ecole Polytechnique**, France

Journal referee

Elsevier's journal Physics Letters B

Teaching assistant

2017 **Utrecht University**, The Netherlands

2010-2013 **Baruch College**, The City University of New York

Medical physicist

2006-2009 **University Clinic of Radiotherapy and Oncology**, North Macedonia

Education

Ph.D. Physics 2014 The Graduate Center, The City University of New York, USA

B.S. Physics 2006 Ss. Cyril and Methodius University, North Macedonia

Awards

2017 First recipient of the Leona Woods Distinguished Postdoctoral Lectureship Award by the Brookhaven National Laboratory, USA.