

Elira Shaska

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Research areas

Cybersecurity and Cryptography, Fully Homomorphic Encryption (FHE), Machine Learning.

Education

- May 23 -present **PhD in Computer Science and Informatics**, *School of Engineering and Computer Science*, Oakland University, MI
- May 23 -May 24 **Master of Science in Computer Science**, *Oakland University, MI*, Rochester, MI.
- Aug.10 - Jun.12 **Master in Mathematics**, *The University of Agder*, Norway
- Sep.09 - Jun.10 **Professional Master in Mathematics**, *University of Shkodra*, Albania
- Sep.06 - Jun.09 **Bachelor in Mathematics**, *University of Shkodra*, Albania

Experience

- Sep.15 - Jun.21 **Teacher of Mathematics and Physics**, *Cambridge International School "Udha e Shkronjave"*, Tirane, Albania
- Sep.12 - Jun.15 **Teacher of Mathematics**, "Scutari" High school, Shkoder, Albania
- Sep.12 - Jun.15 **Part-time lecturer of Mathematics**, *Dep. of Math. & Physics*, Univ. of Shkodra, Albania

Papers

5. E. Shaska Counting genus two curves with (n, n) -split Jacobians over finite fields, NATO Sci. Peace Secur. Ser. D Inf. Commun. Secur., (submitted)
4. E. Shaska Some remarks on homomorphic encryption and machine learning, Contemporary, Math, 2024 (submitted)
3. E. Shaska, T. Shaska; Deep learning for moduli space of genus two curves and an application to post-quantum cryptography, Lecture Notes in Computer Science (submitted)
2. E. Curri, T. Shaska, C. Shor: [Emma Previato and her mathematical life \(1952–2022\)](#), Albanian J. Math.; Vol. 17. (2023), No. 1, 3-12.
1. E. Curri [On the semistability of binary forms over number fields](#) Albanian J. math. vol. 16. No. 1, 3-23 (2022).

Conferences Organized

- April 2024 **Artificial Intelligence in Mathematics**, *AMS Meeting #1195*, University of Wisconsin-Milwaukee, Milwaukee, WI
- June 2022 **Recent trends in algebra, geometry, and arithmetic**, *Research Institute of Science and Technology*, Vlora, Albania

Presentations and Talks

- April 2024 **Machine learning and the moduli space of algebraic curves**, *Artificial Intelligence in Mathematics*, AMS Meeting #1195, University of Wisconsin-Milwaukee
Milwaukee, WI
- April 2024 **Automorphism loci in the moduli space of degree d rational functions**, *Artificial Intelligence in Mathematics*, AMS Meeting #1195, University of Wisconsin-Milwaukee
Milwaukee, WI
- January 2023 **GIT heights and weighted heights**, *AMS Special Session on Excursions in Arithmetic Geometry*, AMS Annual Meeting, Boston
- June 2022 **On the semistability of binary forms over number fields**, *Recent developments in Algebra*, Vlorë, Albania

References

Upon request