

# Gal Arnon

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Website: galarnon42.github.io

## Education

- 2020–Present **PhD Computer Science**, *Weizmann Institute of Science*.  
(Expected Completion: Jan 2025) Advised By: Prof. Moni Naor and Dr. Eylon Yogev
- 2017–2020 **MSc Computer Science**, *Weizmann Institute of Science*.  
(GPA: 93) Advised By: Prof. Guy N. Rothblum  
Thesis: On Prover-Efficient Public-Coin Emulation of Interactive Proofs
- 2013–2017 **BSc Electrical Engineering and Computer Science**, *Tel Aviv University*.  
*Magna Cum Laude* (GPA: 90.68)
  - Final Project (Electrical Engineering) in collaboration with Intel Corporation, Petah Tikva, Israel.
  - Final Project (Computer Science) supervised by Prof. Mooly Sagiv and Dr. Oded Padon.
  - Research Project supervised by Prof. Ran Canetti.

## Research Interests

Foundations of cryptography, computational complexity and theory of computation, probabilistic proof systems, the application of theory to practical problems.

## Publications

- STIR: Reed–Solomon Proximity Testing with Fewer Queries  
G. Arnon, A. Chiesa, G. Fenzi and E. Yogev. (*Under submission*).
- Hamming Weight Proofs of Proximity with One-Sided Error  
G. Arnon, S. Ben-David, and E. Yogev. (*Under submission*).
- IOPs with Inverse Polynomial Soundness Error  
G. Arnon, A. Chiesa, and E. Yogev. **FOCS 2023**.
- A Toolbox for Barriers on Interactive Oracle Proofs  
G. Arnon, A. Bhangale, A. Chiesa, and E. Yogev. **TCC 2022**.
- Hardness of Approximation for Stochastic Problems via Interactive Oracle Proofs  
G. Arnon, A. Chiesa, and E. Yogev. **CCC 2022**.
- Min-Entropic Optimality  
G. Arnon and T. Grossman. (*Preprint*).
- A PCP Theorem for Interactive Proofs and Applications  
G. Arnon, A. Chiesa, and E. Yogev. **EUROCRYPT 2022**.
- On Prover-Efficient Public-Coin Emulation of Interactive Proofs  
G. Arnon and G. N. Rothblum. **ITC 2021**.

## Invited Workshops and Long-Term Visits

- Invited Workshops
  - Efficient Probabilistic Proofs  
Bertinoro, Italy. July 2022.
- Long-Term Visits
  - Proofs, Consensus, and Decentralizing Society Semester  
Visiting Graduate Student at the Simons Institute, UC Berkeley. August–October 2019.

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## Service

- Workshop Organization
- Lattices Meet Hashes: Recent Advances in Post-Quantum Zero-Knowledge Proofs. *Postdoctoral Workshop at the Bernoulli Center, EPFL, Lausanne, Switzerland. Organized together with Ngoc Khanh Nguyen. May 2023.*
- External reviewer
- CRYPTO (2019, 2022, 2023), ITCS (2022), TCC (2021, 2023), SODA (2024), CCC (2024)

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## Talks

- IOPs with Inverse Polynomial Soundness Error
  - *Technion TCS Seminar, Haifa, Israel. February 2024.*
  - *ZK Study Club, Virtual. October 2023.*
  - *StarkWare Industries, Netanya, Israel. September 2023.*
  - *Interuniversity TCS Student Seminar, Tel-Aviv University, Tel-Aviv, Israel. July 2023.*
  - *IST Austria TCS Seminar, Vienna, Austria. June 2023.*
- A Toolbox for Barriers on Interactive Oracle Proofs
  - *TCC 2022, Chicago, USA. November 2022.*
- How To Be Convinced While Barely Listening (Even to Yourself)
  - *EPFL CS Theory Reading Group, Lausanne, Switzerland. May 2023.*
  - *Efficient Probabilistic Proofs Workshop, Bertinoro, Italy. July 2022. (Talk given under alternate title.)*
- Hardness of Approximation for Stochastic Problems via Interactive Oracle Proofs
  - *CCC 2022, Philadelphia, USA. July 2022. (Talk given virtually.)*
- A PCP Theorem for Interactive Proofs and Applications
  - *EUROCRYPT 2022, Trondheim, Norway. May-June 2022.*
  - *Theory Lunch at the Weizmann Institute of Science, Rehovot, Israel. July 2021.*
- On Prover-Efficient Public-Coin Emulation of Interactive Proofs
  - *ITC 2021, Virtual. July 2021.*
  - *"Proofs, Consensus, and Decentralizing Society" Program Seminar at Simons Institute, Berkeley, USA. October 2019.*

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## Teaching

- Foundations and Frontiers of Probabilistic Proofs  
*MSRI (SLMath) summer graduate school. Zurich, Switzerland. July 2023.*
- Foundations and Frontiers of Probabilistic Proofs  
*MSRI summer graduate school. Held virtually. July-August 2021.*
- Mini-Course on Zero-Knowledge Proofs  
*Amos de-Shalit Summer School, Weizmann Institute of Science. September 2018.*

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## Languages

- Native Hebrew, English
- Fluent German

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## Programming Languages

C#, Python, Java, C, C++, Matlab