

## Appointments

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<b>Research Fellow</b> <i>The Simons Institute</i> Berkeley, CA, USA	<b>2025–Present</b>
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## Education

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<b>Ph.D. Computer Science</b> <i>Weizmann Institute of Science</i> Advised By: Prof. Moni Naor and Dr. Eylon Yogev Thesis: New Advancements in Interactive Oracle Proofs: Theory, Practice, and Limitations	<b>2020–2025</b>
<b>M.Sc. Computer Science</b> <i>Weizmann Institute of Science</i> Advised By: Prof. Guy N. Rothblum Thesis: On Prover-Efficient Public-Coin Emulation of Interactive Proofs	<b>2017–2020</b>
<b>B.Sc. Electrical Engineering and Computer Science</b> <i>Tel Aviv University</i> <i>Magna Cum Laude</i>	<b>2013–2017</b>

## Research Interests

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Foundations of cryptography, computational complexity and theory of computation, probabilistic proof systems in both theory and practice.

## Awards

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- **Esther Hellinger Memorial Prize for academic excellence.** *Awarded in 2024 by the Weizmann Institute.*
- **Best Paper Award** for “STIR: Reed–Solomon Proximity Testing with Fewer Queries”. *At Advances in Cryptology, the 44th Annual International Cryptology Conference (CRYPTO 2024).*

## Publications

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12. **Designated-Verifier SNARGs with One Group Element.** Gal Arnon, Jesko Dujmovic, and Yuval Ishai. *To appear in proceedings of: Advances in Cryptology, the 45th Annual International Cryptology Conference (CRYPTO 2025).*
11. **Towards a White-Box Secure Fiat-Shamir Transformation.** Gal Arnon and Eylon Yogev. *To appear in proceedings of: Advances in Cryptology, the 45th Annual International Cryptology Conference (CRYPTO 2025).* Additionally appeared in ZKProof 7.
10. **Instance Compression, Revisited.** Gal Arnon, Shany Ben-David, and Eylon Yogev. *To appear in proceedings of the 44th Annual International Conference on Theory and Application of Cryptographic Techniques (EUROCRYPT 2025).*
9. **WHIR: Reed–Solomon Proximity Testing with Super-Fast Verification.** Gal Arnon, Alessandro Chiesa, Giacomo Fenzi, and Eylon Yogev. *To appear in proceedings of the 44th Annual International Conference on Theory and Application of Cryptographic Techniques (EUROCRYPT 2025).* Additionally appeared in ZKSummit 12 and ZKProof 7.
8. **Hamming Weight Proofs of Proximity with One-Sided Error.** Gal Arnon, Shany Ben-David, and Eylon Yogev. *In proceedings of the 22nd Theory of Cryptography Conference (TCC 2024).*
7. **STIR: Reed–Solomon Proximity Testing with Fewer Queries.** Gal Arnon, Alessandro Chiesa, Giacomo Fenzi, and Eylon Yogev. *In proceedings of Advances in Cryptology, the 44th Annual International*

*Cryptography Conference (CRYPTO 2024)*, Part X, pp. 380–413. **Best Paper Award**. Additionally appeared in *ZKSummit 11* and *ZKProof 6*.

6. **IOPs with Inverse Polynomial Soundness Error**. Gal Arnon, Alessandro Chiesa, and Eylon Yogev. *In proceedings of the 64th IEEE Annual Symposium on Foundations of Computer Science (FOCS 2023)*, pp. 752–761.
5. **A Toolbox for Barriers on Interactive Oracle Proofs**. Gal Arnon, Amey Bhangale, Alessandro Chiesa, and Eylon Yogev. *In proceedings of the 20th Theory of Cryptography Conference (TCC 2022)*, pp. 447–466
4. **Hardness of Approximation for Stochastic Problems via Interactive Oracle Proofs**. Gal Arnon, Alessandro Chiesa, and Eylon Yogev. *In proceedings of the 37th Annual IEEE Conference on Computational Complexity (CCC 2022)*, pp. 24:1–24:16.
3. **Min-Entropic Optimality**. Gal Arnon and Tomer Grossman. (*Manuscript*.)
2. **A PCP Theorem for Interactive Proofs and Applications**. Gal Arnon, Alessandro Chiesa, and Eylon Yogev. *In proceedings of the 41st Annual International Conference on Theory and Application of Cryptographic Techniques (EUROCRYPT 2022)*, pp. 64–94.
1. **On Prover-Efficient Public-Coin Emulation of Interactive Proofs**. Gal Arnon and Guy N. Rothblum. *In proceedings of the 2nd Conference on Information-Theoretic Cryptography (ITC 2021)*, volume 199 of *LIPIcs*, pp. 3:1–3:15.

## Invited Talks

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- IOPs with Inverse Polynomial Soundness Error. *ITC 2024 Highlights Track, Stanford University, United States. August 2024.*
- How to convince someone who's barely listening (even to themselves). *At Efficient Probabilistic Proofs Workshop, Bertinoro, Italy. July 2022.*

## Long-Term Visits

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- Proofs, Consensus, and Decentralizing Society Semester at the Simons Institute, UC Berkeley. August–October 2019.

## Service

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**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.*

**Conference reviews:** CCC (2024), CRYPTO (2019, 2022, 2023, 2024, 2025), FOCS (2025), ITC (2025), ITCS (2022), SODA (2024), STOC (2025), TCC (2021, 2023)

## Talks

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- STIR: Reed–Solomon Proximity Testing with Fewer Queries
  - *CRYPTO 2024, Santa Barbara, United States. August 2024.*
  - *Interuniversity TCS Student Seminar, Tel Aviv University, Tel Aviv, Israel. May 2024.*
  - *Theory Lunch at the Weizmann Institute of Science, Rehovot, Israel. May 2024.*
  - *HUJI TCS Seminar, Jerusalem, Israel. May 2024.*
  - *StarkWare Industries, Netanya, Israel. April 2024.*
  - *ZKSummit 11, Athens, Greece. April 2024.*
- IOPs with Inverse Polynomial Soundness Error
  - *ITC 2024 Highlights Track, Stanford University, United States. August 2024.*
  - *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)
  - *Theory Lunch at the Weizmann Institute of Science, Rehovot, Israel. May 2025.*
  - *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.*

## Teaching

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### Teaching Assistant:

- 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.*

**Instructor:** Mini-Course on Zero-Knowledge Proofs. *Amos de-Shalit Summer School, Weizmann Institute of Science. September 2018.*