Aryeh Lev Zabokritskiy (Yohananov) Department of ECE and Institute of Systems Research

Education

B.A. in Computer Science Technion – Israel Institute of Technology	2011–2016
M.Sc. in Computer Science Technion – Israel Institute of Technology Supervisor: Prof. Eitan Yaakobi Thesis: "Codes over Graphs", Transitioned to direct Ph.D.	2016–2017
Ph.D. in Computer Science Technion – Israel Institute of Technology Supervisor: Prof. Eitan Yaakobi Thesis: "Codes over Graphs"	2017–2022
Employment History	
Lecturer MIGAL – Galilee Research Institute Department of Computer Science	2024–present
Postdoctoral Researcher UMD – University of Maryland Department of ECE and Institute of Systems Research Supervisor: Prof. Alexandr Barg	2022–2024
Postdoctoral Researcher Ben-Gurion University of the Negev School of ECE Supervisor: Prof. Moshe Schwartz	2022–2024
IT Department Manager IDF	2006–2011
Courses Taught	
Combinatorics for Computer Science Technion – Israel Institute of Technology, Lecturer in Charge Undergraduate compulsory course	2016–2023
Modern Algebra REICHMAN UNIVERSITY, LECTURER IN CHARGE Undergraduate compulsory course	2021–2023
Industrial Project Technion – Israel Institute of Technology, Organizer and Manager Undergraduate compulsory course	2018-Present
Introduction to Computer Science Technion – Israel Institute of Technology, Lecturer Undergraduate compulsory course	2022-Present
Introduction to Computer - Python Technion – Israel Institute of Technology, Lecturer	2023-Present

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Algorithms 2024-Present MIGAL – Galilee Research Institute, Lecturer Undergraduate compulsory course **Introduction to Systems Programming** 2025-Present MIGAL – Galilee Research Institute, Lecturer Undergraduate compulsory course Data Structures and Algorithms for Bioinformatics Students 2025-Present MIGAL – Galilee Research Institute, Lecturer Undergraduate compulsory course **Network Security** 2025-Present TECHNION – ISRAEL INSTITUTE OF TECHNOLOGY, LECTURER

Undergraduate compulsory course

Awards, Citations, Honors, Fellowships

The Public Education Foundation	2013–2016
Selim and Rachel Benin Scholarship Fund	2017
ISIT Student Travel Grant	2017
Excellence Scholarship Faculty Funding (5 times)	2016–2020
Jacobs Qualcomm Scholarship (2 times)	2020 - 2021
Vatat Scholarship for Ultra-Orthodox Post-Doc students Abroad	2023–2024

Society Memberships

IEEE 2016–Present

Student Member

Scientific Publications

Refereed Journal Papers

- [J1] L. Yohananov and E. Yaakobi, "Codes for graph erasures," *IEEE Transactions on Information Theory*, vol. 65, no. 9, pp. 5433–5453, Sep. 2019.
- [J2] L. Yohananov, Y. Efron, and E. Yaakobi, "Double and triple node-erasure correcting codes over graphs," *IEEE Transactions on Information Theory*, vol. 66, no. 7, pp. 4089–4103, Jul. 2020.
- [J3] L. Yohananov and E. Yaakobi, "Codes over trees," *IEEE Transactions on Information Theory*, vol. 67, no. 6, pp. 3599–3622, Jun. 2021.
- [J4] L. Yohananov and E. Yaakobi, "Almost optimal construction of functional batch codes using extended Simplex codes," *IEEE Transactions on Information Theory*, vol. 68, no. 9, pp. 6434–6451, Sep. 2022.
- [J5] A. Barg, M. Schwartz, and L. Yohananov, "Storage codes on coset graphs with asymptotically unit rate," *Combinatorica*, vol. 44, pp. 1193–1209, 2024.

Papers in Conference Proceedings

- [C1] L. Yohananov and E. Yaakobi, "Codes for graph erasures," *IEEE International Symposium on Information Theory*, pp. 844–848, Aachen, Germany, Jul. 2017.
- [C2] L. Yohananov and E. Yaakobi, "Codes for erasures over directed graphs," *IEEE Information Theory Workshop*, pp. 116–120, Kaohsiung, Taiwan, Nov. 2017.
- [C3] L. Yohananov, Y. Efron, and E. Yaakobi, "Double and triple node-erasure correcting codes over graphs," *IEEE International Symposium on Information Theory*, pp. 1582-1586, Paris, France, Jul. 2019.
- [C4] L. Yohananov and E. Yaakobi, "Codes over trees," *IEEE International Symposium on Information Theory*, LA, CA, USA, Jan. 2020.
- [C5] L. Yohananov and E. Yaakobi, "Almost optimal construction of functional batch codes using extended Simplex codes," *IEEE International Symposium on Information Theory*, 2021.

ArXiv Papers.....

- [C6] L. Yohananov and M. Schwartz, "On the Coding Capacity of Reverse-Complement and Palindromic Duplication-Correcting Codes," arXiv:2312.00394, Submitted to Designs, Codes and Cryptography. 2024.
- [C7] L. Yohananov and M. Schwartz, "The Second Generalized Covering Radius of Binary Primitive Double-Error-Correcting BCH Codes," *arXiv:2409.10420*, Submitted to *Finite Fields and Their Applications*. 2024.

[C8] L. Yohananov and I. B. Essayag, "Optimal Functional 2^{s-1} -Batch Codes: Exploring New Sufficient Conditions," arXiv:2501.11122, Submitted to IEEE International Symposium on Information Theory, 2025.