Curriculum Vitae Ev Zisselman Vainshtein

Personal details

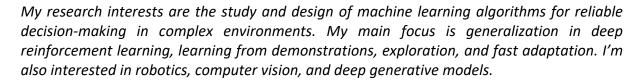
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Google Scholar: <u>link</u>

Research Interests



Education

2019 – Sep. 2025 (expected): PhD student in Electrical & Computer Engineering, Technion.

Advisor: Prof. Aviv Tamar. **GPA: 96/100.**Dissertation Title: **Out of distribution generalization in decision making**.

2017 – 2019: MSc (summa cum laude) in Electrical & Computer Engineering, Technion. Advisor: Prof. Michael Elad. **GPA: 96/100, Thesis grade: 95/100** (top 4% of all Technion Master Alumni).

2011 – 2016: BSc in Electrical & Computer Engineering, Technion. GPA: 90/100.

2011 – 2016: BSc in Physics, Physics Department, Technion. GPA: 90/100.

Teaching

- ➤ 2019 current: Project instructor, Control Robotics & Machine Learning Lab, Technion.
- 2019 current: Project instructor, Signal and Image Processing Lab, Technion.
- 2019 2023: Lab instructor: Deep Learning (undergraduate lab), Technion.
- ➤ 2017 2023: TA and TA in charge, Random Signals, undergraduate course, Electrical & Computer Engineering department, Technion (ECE faculty recognition for teaching).
- ➤ 2016: TA in charge, Introduction to Electrical Engineering, undergraduate course, Electrical & Computer Engineering department, Technion.



➤ 2012: TA in mathematics, pre-university level course, Center for Pre-University Studies, Technion.

Honors and Awards

- ➤ 2025: The PBC's Fellowships for Postdoctoral Training Abroad for Outstanding Scholars in the Artificial Intelligence and Data Science Fields. **Awarded up to 6 students**.
- ➤ 2024: Schmidt Postdoc Award for Women in Mathematical and Computing Sciences Awarded to 10 students.
- ➤ 2021 2024: Women Excellence Scholarship The Council of Higher Education, Israel.
- > 2020: Faculty of Electrical & Computer Engineering recognition for teaching.
- > 2020: Freud Award for Women Excellence Electrical & Computer Engineering PhD program.
- ➤ 2017: Research Day finalist (2nd place award), Computer Science Department, Technion.
- ➤ 2012: Electrical & Computer Engineering Outstanding Students Scholarship, Menachem & Carmela Abraham Scholarship (**Top 4 undergraduates** selected from ECE faculty BSc program).

Talks

- Blindfolded Experts Generalize Better, <u>Exploration in AI Today (EXAIT)</u> workshop, ICML 2025. Best paper award at EXAIT Workshop, ICML 2025. Talk
- Explore to Generalize in Zero-Shot RL, GenPlan workshop in Neural Information Processing Systems, December 2023. Coauthors: E. Zisselman, D. Soudry, A. Tamar. Slides, Talk
- ➤ A Local Block Coordinate Descent Algorithm for the Convolutional Sparse Coding Model, Women in AI event at Facebook Tel-Aviv, December 2019. Coauthors: E. Zisselman, J. Sulam, M. Elad.

Reviewing experience

- > 2025: NeurIPS, ICLR
- 2024: NeurIPS, ICLR
- > 2023: NeurIPS, NeurIPS GenPlan Workshop
- ➤ 2022: TPAMI
- > 2021: NeurIPS

Publications

Published

- **E. Zisselman,** Mirco Mutti, Shelly Francis-Meretzki, Elisei Shafer, Aviv Tamar, "<u>Blindfolded Experts Generalize Better: Insights from Robotic Manipulation and Videogames</u>", Neural Information Processing Systems (NeurIPS), 2025. (<u>Best paper award</u> at EXAIT Workshop, ICML 2025)
- **E. Zisselman**, I. Lavie, D. Soudry, A. Tamar, "Explore to Generalize in Zero-Shot RL", in Advances in Neural Information Processing Systems (NeurIPS), 2023.
- A. Tamar, D. Soudry, **E. Zisselman**, "<u>Regularization Guarantees Generalization in Bayesian</u>
 <u>Reinforcement Learning through Algorithmic Stability</u>", in Proceedings of the AAAI Conference on Artificial Intelligence 2022 **(Oral)**.
- **E. Zisselman**, A. Tamar. "<u>Deep Residual Flow for Novelty Detection</u>", in IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2020.
- **E. Zisselman**, J. Sulam, M. Elad. "<u>A Local Block Coordinate Descent Algorithm for the CSC Model</u>", in IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2019.
- **E. Zisselman**, A. Adler, M. Elad, "Compressed Learning: A Deep Neural Network Approach", in Analyzing and Learning of Images, Shapes, and Forms: Part 1, Volume 19, ELSEVIER, 2018.

Submitted

I. Lavie, **E. Zisselman**, N. Weinberger, "Fine-tuning of RL Models via Local Policy Iteration", Neural Information Processing Systems (NeurIPS), 2024.

M. Bojan, N. Bojan, **E. Zisselman**, A. Tamar, "Correcting Flows with Marginal Matching", The Thirteenth International Conference on Learning Representations (ICML), 2025.