

Curriculum Vitae

Ev Zisselman Vainshtein

Personal details

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Research Interests

My research interests are the study and design of machine learning algorithms for reliable decision-making in complex environments. My main focus is generalization in deep reinforcement learning, learning from demonstrations, exploration, and fast adaptation. I'm also interested in robotics, computer vision, and deep generative models.

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.
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- 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*, [Exploration in AI Today \(EXAIT\)](#) 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
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Publications

Published

E. Zisselman, Mirco Mutti, Shelly Francis-Meretzki, Elisei Shafer, Aviv Tamar, "[Blindfolded Experts Generalize Better: Insights from Robotic Manipulation and Videogames](#)", Neural Information Processing Systems (NeurIPS), 2025. (**Best paper award 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**, "[Regularization Guarantees Generalization in Bayesian Reinforcement Learning through Algorithmic Stability](#)", in Proceedings of the AAAI Conference on Artificial Intelligence 2022 (**Oral**).

E. Zisselman, A. Tamar. "[Deep Residual Flow for Novelty Detection](#)", in IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2020.

E. Zisselman, J. Sulam, M. Elad. "[A Local Block Coordinate Descent Algorithm for the CSC Model](#)", 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.
