

# ONNO EBERHARD, M.Sc.

## Machine Learning Researcher

MPI for Intelligent Systems & University of Tübingen



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### EDUCATION

- Ph.D. Computer Science**, *Max Planck Institute for Intelligent Systems & University of Tübingen*.  
Oct 2023 – now Advisors: [Claire Vernade](#) and [Michael Muehlebach](#). (Additional: [Georg Martius](#) and [Peter Dayan](#).)  
My research [\[1, 2\]](#) focuses on the foundations of reinforcement learning under partial observability.
- M.Sc. Machine Learning**, *University of Tübingen*.  
Oct 20 – Sep 22 GPA: 1.00/1.00 (top of class), degree awarded with distinction. Thesis: “Colored Noise Exploration in Reinforcement Learning,” supervised by [Georg Martius](#) and [Philipp Hennig](#), written at MPI-IS.
- B.Sc. Electrical Engineering and Information Technology**, *University of Duisburg-Essen*.  
Oct 16 – Sep 20 GPA: 1.6/1.0 (top 5% of graduates). Thesis supervised by [Steven X. Ding](#), written at Siemens.  
Oct 18 – Sep 20 Computer Science, *University of Duisburg-Essen*. 90 ECTS points (= half a B.Sc.), GPA: 1.5/1.0  
Aug – Dec 2018 Visiting Student, *Nanyang Technological University Singapore*. Schools: [EEE](#), [CSE](#).

### EXPERIENCE

- Google Research** · *Paris, France*  
Jun 23 – Sep 23 *Research Intern* with [Thibaut Cuvelier](#), applying RL and GNNs to operations research problems. [\[3\]](#)
- Max Planck Institute for Intelligent Systems** · *Tübingen, Germany*  
Oct 22 – May 23 *Research Intern* with [Michael Muehlebach](#), working on open-loop reinforcement learning. [\[2\]](#)  
Jun 21 – Sep 22 *Research Intern* with [Georg Martius](#), working on noisy exploration for deep reinforcement learning. [\[4\]](#)
- University of Duisburg-Essen** · *Duisburg, Germany*  
Oct 19 – May 21 *Research Assistant* with [Torsten Zesch](#), working on deep learning for automatic speech recognition. [\[5\]](#)  
May – Aug 2019 *Teaching Assistant*, physics lab.
- Siemens** · *Mülheim an der Ruhr, Germany*  
Sep 16 – Sep 22 *Working Student* as a data scientist · *Apprenticeship* as an electronics technician (IHK diploma).

### Service & Supervision

- Supervision** Yike Zhao (M.Sc. 2025 at EPFL, co-supervised with [Michael Muehlebach](#))
- Reviewing** ICLR 2026 — DynaFront @ NeurIPS 2025 — ICML 2025 — L4DC 2025 — NeurIPS 2024  
IFAC NMPC 2024 — IMOL @ NeurIPS 2023
- Organizing** Eighteenth European Workshop on Reinforcement Learning (EWRL 2025)  
ICML Workshop on Foundations of Reinforcement Learning and Control (FoRLaC @ ICML 2024)

### HONORS & AWARDS

- 2025 Awarded the Best Poster Award at the IMPRS-IS Boot Camp 2025 (for [\[1\]](#)).
- 2025 Nominated for the Best Paper Award at L4DC 2025 (for [\[2\]](#)).
- 2023 Awarded the scholarship of the International Max Planck Research School for Intelligent Systems.
- 2021 Selected by Bending Spoons for *First Ascent International 2022* (top ~3% of applicants).
- 2018 Awarded the *PROMOS* scholarship by the German Academic Exchange Service (DAAD).
- 2017 Awarded the *Deutschlandstipendium* scholarship for academic achievements (top ~0.7% of students).
- 2016 Awarded the *Abiturpreis* of the German Physical Society for the best results in the Physics Abitur.
- 2016 Awarded the *Abiturpreis* of the German Mathematical Society for the best results in the Math Abitur.
- 2014 Fourth place at the RoboCup World Cup 2014 in Brazil in the league *Rescue A Secondary (Superteam)*.
- 2012 Second place at the RoboCup World Cup 2012 in Mexico in the league *Rescue A Primary*.

### PUBLICATIONS

- 2025 [\[1\]](#) OE et al. *Partially Observable Reinforcement Learning with Memory Traces*. ICML 2025
- 2025 [\[2\]](#) OE et al. *A Pontryagin Perspective on Reinforcement Learning*. L4DC 2025. **Oral**
- 2023 [\[3\]](#) OE et al. *Middle-Mile Logistics Through the Lens of Goal-Conditioned RL*. GCRL @ NeurIPS 2023
- 2023 [\[4\]](#) OE et al. *Pink Noise Is All You Need: Colored Noise Exploration in Deep RL*. ICLR 2023. **Spotlight**
- 2021 [\[5\]](#) OE & TZ. *Effects of Layer Freezing on Transferring a Speech Recognition System*. KONVENS 2021

### SKILLS

- Languages** English: fluent — German: native — French: elementary (A2) — Mandarin: elementary (HSK2)
- Technical** [Machine Learning](#) [Reinforcement Learning](#) [Deep Learning](#) [Bayesian Inference](#) [Optimization & Control](#)
- [Python](#) [NumPy & SciPy](#) [JAX & Flax](#) [PyTorch](#) [Julia](#) [Haskell](#) [Java](#) [GNU/Linux](#) [Git](#) [L<sup>A</sup>T<sub>E</sub>X](#)

Oct 2025 I am always excited to learn new things!