



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 Mühlebach](#). Scholar in the [IMPRS-IS](#) program.
- 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](#) (Grade: 1.0/1.0, 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: “Data-driven operational forecasts for newly built power plants,” supervised by [Steven X. Ding](#) (Grade: 1.1/1.0, 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* in the Operations Research team, hosted by [Thibaut Cuvelier](#). I worked on applying reinforcement learning and graph neural networks to solve middle-mile logistics problems. [\[1\]](#)
- Max Planck Institute for Intelligent Systems** · *Tübingen, Germany*
Oct 22 – May 23 *Research Intern* in [Michael Mühlebach](#)’s Learning and Dynamical Systems group. My research focused on reinforcement learning and optimal control.
- Jun 21 – Sep 22 *Research Intern* in [Georg Martius](#)’ Autonomous Learning group. I worked on noisy exploration for deep reinforcement learning in continuous action spaces. [\[2\]](#)
- University of Duisburg-Essen** · *Duisburg, Germany*
Oct 19 – May 21 *Research Assistant* in [Torsten Zesch](#)’s Language Technology Lab. I worked on automatic speech recognition for low-resource languages and published a paper about using transfer learning in this context.
- May – Aug 2019 *Teaching Assistant*, physics lab.
- Siemens** · *Mülheim an der Ruhr, Germany*
Sep 17 – Sep 22 *Working Student* in an R&D department for the operation and control of combined cycle power plants. I worked as a data scientist on predicting output power and fuel consumption during start-up processes.
- Sep 16 – Jun 19 *Apprenticeship* as an Electronics Technician for Machines and Drive Technology (IHK Diploma).

Service

- Reviewing** NeurIPS 2023 Workshops
- Open Source** I have contributed to open source projects including [Flax](#) and [Pandas](#), and publish my work on [GitHub](#).
- 2019 – now I work as a volunteer and referee at RoboCup Junior events on a national and international level.

HONORS & AWARDS

- 2023 Awarded the scholarship of the International Max Planck Research School for Intelligent Systems.
- 2022 Best results in the Machine Learning master’s program at the University of Tübingen.
- 2021 Selected by Bending Spoons for *First Ascent International 2022* as one of “Europe’s 20 most impressive computer science students” (out of over 600 applicants). Winner of coding competition at the event.
- 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*.

SELECTED PUBLICATIONS

See onnoeberhard.com/publications for more. Click any publication for details.

- 2023 [\[1\]](#) **OE**, T. Cuvelier, M. Valko, and B. De Backer. *Middle-Mile Logistics Through the Lens of Goal-Conditioned Reinforcement Learning*. GCRL Workshop, NeurIPS 2023
- 2023 [\[2\]](#) **OE**, J. Hollenstein, C. Pinneri, and G. Martius. *Pink Noise Is All You Need: Colored Noise Exploration in Deep Reinforcement Learning*. ICLR 2023. **Oral (top 25%)**

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^AT_EX](#)

Dec 2023

I am always excited to learn new things!