

Till Freihaut

PHD STUDENT · COMPUTER SCIENCE

University of Zurich, Binzmühlstrasse 14, 8050 Zürich

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Education

University of Zurich & ETH AI Center

Zurich

PHD COMPUTER SCIENCE

05/2024 - present

- Advisor: Prof. Dr. Giorgia Ramponi
- Research Group: Autonomous Learning and Predictive Intelligence Lab
- Research Topics: Multi-agent Reinforcement Learning, Imitation Learning
- ETH AI Center: Associate PhD

University of Mannheim

Mannheim

MS MATHEMATICS, 1.0 WITH HONORS

09/21 - 03/24

- Thesis: Importance Sampling in Offline Contextual Bandits
- Advisors: Claire Vernade and Leif Döring
- Focus: Mathematics in Artificial Intelligence, in particular Reinforcement Learning
- Honors: Finished with best possible grade

University of Mannheim

Mannheim

BS MATHEMATICS WITH A MINOR IN BUSINESS, 1.8

08/18 - 08/21

- Focus: Probability Theory and Statistics
- Thesis: Stochastic Approximation in Reinforcement Learning
- Supervisor: Prof. Dr. Leif Döring

Professional Experience

ETH AI Center

Zurich

ASSOCIATE PHD STUDENT

05/2024 - present

- Collaborating with fellow PhD students and participating in industry networking events.

adago (formerly adacon)

Mannheim

DATA SCIENTIST

01/2022 - 05/2024

- Collaborated with research scientists to develop Reinforcement Learning algorithms for supply-chain systems using Python and stable-baselines3.

University of Mannheim

Mannheim

GRADUATE REINFORCEMENT LEARNING RESEARCH ASSIST

10/2021 - 09/2022

- Supported reinforcement learning research, instructed a Python course for doctoral students, and developed programming exercises for a Reinforcement Learning course.

Deutsche Bank

Berlin

QUANTITATIVE RISK MANAGEMENT INTERN

08/2021 - 12/2021

- Automated risk analysis for trading products using Python, optimized code performance, and assisted in deploying a data analysis tool.

University of Mannheim

Mannheim

UNDERGRADUATE TEACHING ASSISTANT

08/2020 - 02/2021

- Led tutorials for over 20 students in analysis, supported their understanding of course concepts, and graded assignments and exams.

Publications

WORKSHOPS Simon Weissmann*, **Till Freihaut***, Claire Vernade, Giorgia Ramponi, Claire Vernade, Leif Döring.
Barycenter Policy Design for Multiple Policy Evaluation, EWRL2025

Till Freihaut, Giorgia Ramponi. On Feasible Rewards in Multi-Agent Inverse Reinforcement Learning, EWRL2025 and RLDM

Till Freihaut*, Luca Viano*, Volkan Cevher, Matthieu Geist, Giorgia Ramponi. Learning equilibria from Data: Provably-efficient Multi-Agent Imitation Learning, **Spotlight** at RLBrew Workshop at RLC

IN REVIEW

Till Freihaut, Giorgia Ramponi. On Feasible Rewards in Multi-Agent Inverse Reinforcement Learning, Under Review

Till Freihaut*, Luca Viano*, Volkan Cevher, Matthieu Geist, Giorgia Ramponi. Learning equilibria from Data: Provably-efficient Multi-Agent Imitation Learning, Under Review

PUBLISHED

Benedikt Geier, Borui Niklas Zhu, Moritz Kern, Manuel J. Hentschel, Kiril Dik, Moritz Lauff, Tim Glockner, Adrian Heppeler, Nadine Tampe, Leonardo Vela, **Till Freihaut**, Niclas Lietzow, Helene Peter, Martin Schlather, Yiqi Li. Package. 2020. DistributionFitR, CRAN

Awards & Honors

2024 **Best Student Recognition**, Master Mathematics, University of Mannheim

2024 **Werner Oettli Prize (Best Master Thesis)**, Master Mathematics, University of Mannheim

2018 **Best High school Graduate in Mathematics**, Deutsche Mathematiker Vereinigung (German Mathematics Association)

Teaching Experience

Fall 2024 **Reinforcement Learning**, Head Teaching Assistant

Zurich

Fall 2020 **Analysis I**, Teaching Assistant

Mannheim

Student Supervision

2024-now **Master students at ETH and University of Zurich**, Various topics in Reinforcement Learning

Zurich

Scientific Activities

ORGANIZING

NeurIPS Workshop, 2025, Co-organizing the Second Edition of Aligning Reinforcement Learning Experimentalists and Theorists (ARLET)

ATTENDEES

Reinforcement Learning Conference in Dresden, 2022, Attended talks by leading researchers to gain an understanding of the latest advancements in the field while being an undergraduate student

Reinforcement Learning Summer School in Barcelona, 2023, Participated in lectures led by prominent researchers, gaining exposure to diverse research areas within Reinforcement Learning and applying them in coding sessions

Multi-Agent Reinforcement Learning Summer School in Lausanne, 2024, Networked with other PhD students working on Multi-Agent Reinforcement Learning problems

European Workshop on Reinforcement Learning, 2024, Extending Network within Reinforcement Learning community

Reinforcement Learning and Decision Making, 2025, Presenting Poster on Multi-Agent Inverse RL

REVIEWER

ARLET Workshop ICML(2024), EXAIT Workshop ICML (2025), EWRL (2025)