

# Till Freihaut

PHD STUDENT · COMPUTER SCIENCE

*University of Zurich, Binzmühlstrasse 14, 8050 Zürich*

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## Education

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### **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

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### **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

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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 for NeurIPS2025

**Till Freihaut\***, Luca Viano\*, Volkan Cevher, Matthieu Geist, Giorgia Ramponi. Learning equilibria from Data: Provably-efficient Multi-Agent Imitation Learning, Under Review for NeurIPS2025

## 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

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- 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

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- Fall 2024 Reinforcement Learning, Head Teaching Assistant Zurich
- Fall 2020 Analysis I, Teaching Assistant Mannheim

## Student Supervision

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

## Scientific Activities

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### 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)