

# Till Freihaut

PHD STUDENT · COMPUTER SCIENCE

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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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### IN REVIEW

**Till Freihaut**, Georgia Ramponi. On Feasible Rewards in Multi-Agent Inverse Reinforcement Learning, Under Review for Neurips2025

**Till Freihaut\***, Luca Viano\*, Volkan Cevher, Matthieu Geist, Georgia Ramponi. Learning equilibria from Data: Provably-efficient Multi-Agent Imitation Learning, Under Review for Neurips2025

Simon Weissmann\*, **Till Freihaut\***, Claire Vernade, Georgia Ramponi, Claire Vernade, Leif Döring. Barycenter Policy Design for Multiple Policy Evaluation, Under Review for EWRL2025

## 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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### 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, resulted in an on-going collaboration with a PhD student from EPFL.

**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)