Hannes Drobek

Kasernenstraße 8, 38102 Braunschweig, Lower Saxony, Germany

hannes.drobek@mdc-berlin.de | hannesdro.github.io/

Education

Max Delbrück Center Berlin & FU Berlin — *Berlin, Germany*

Doctoral Researcher — *Since Feb. 2025*

- Method development to identify and annotate biomolecules imaged by cryo-electron tomography (CryoET)
- Combine CryoET with complementary structural and biophysical information and employ molecular simulations to capture the dynamic conformations and interactions of proteins

Technical University of Braunschweig — *Braunschweig, Germany*

M.Sc. in Data Science — *Oct. 2021 - Mar. 2024*

- Master-Thesis: ”Pattern Mining in medical time series”
- Grade: 1,4

Technical University of Braunschweig — *Braunschweig, Germany*

M.Sc. in Mathematics in Finance and Industry — *Oct. 2020 - Oct. 2021*

- 2. Semester

Technical University of Braunschweig — *Braunschweig, Germany*

B.Sc. in Mathematics in Finance and Industry — *Oct. 2017 - Aug. 2020*

- Bachelor-Thesis: ”Market value prediction of football players using machine learning methods”
- Grade: 2,5

Experience

MTV Braunschweig — *Braunschweig, Germany*

Instructor — *Since Mar. 2023*

- Part of the coaching team of the Ultimate Frisbee department
- Planning and leading weekly training sessions
- Organizing training camps, tournaments and extracurricular events

FDTech — *Weyhausen, Germany*

Student trainee — *June 2021 - Apr. 2023*

- Statistics/Design of Experiments/Software Development
- Investigation of sampling algorithms for the parameterization of test cases and the creation of training data sets
- Python interface within the testing toolchain for a requirement tool via REST API
- Development of a GUI in the same toolchain for the parameterization of devices under test

TU Braunschweig — *Braunschweig, Germany*

Research assistant at the Institute of Analysis and Algebra — *Nov. 2022 - Mar. 2023*

- Support of the course ”Advanced practical Data Science”
- Supervision of student submissions, assistance with acceptances and offering a question and answer session

TU Braunschweig — *Braunschweig, Germany*

Research assistant at the Institute of Analysis and Algebra — *June 2022 - Sep. 2022*

- Pattern mining in time series data
- Literature research about existing methods and overview of the current state of research
- Implementation of different preprocessing methods, a pattern mining algorithm and an analysis dashboard

Skills

IT Skills	Python
	R
	Git
	Microsoft Office
Language	German
	English
Volunteer Experience	Part of the Youth Committee of the DLRG Misburg
	Youth Coach DLRG
	Coach Ultimate Frisbee