Per Joachims

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Work Experience (Selected)

flaschenpost SE   *Berlin, Germany*
Senior Analyst Big Data   *Nov 23 - now*
- Extending and optimizing first party tracking data pipeline
- Applying machine learning and OR-optimization methods to support business decisions
- *Technical Skills:* ETL with dbt & Databricks | Data analysis and modelling with Python/PySpark | Building workflows and CI/CD Pipelines in Azure DevOps and Databricks

flaschenpost SE   *Berlin, Germany*
Financial & Data Analyst   *Oct 22 - Oct 23*
- Lead coordination of planning and communication with stakeholders up to C-Level
- Conception, and modelling of driver-based planning as data model
- Financial data owner: implementation of financial data models in Databricks + Power BI in close cooperation with BI
- *Technical Skills:* ETL with SQL + Power Query (M) / Databricks | Data modelling with M / DAX + visualization in MS Power BI / Excel

Humboldt-Universitaet zu Berlin, Chair of Operations Research   *Berlin, Germany*
Student Research Assistant   *Jan 19 - Dec 20*
- Co-creating Python package paminco [GitHub]: Parametric Computation of Minimum Cost Flows
- *Theoretical Knowledge:* Graph theory: graph representations, shortest paths and minimum cost flows | Convex constrained optimization, eg. Frank–Wolfe algorithm
- *Technical Skills:* Software design: architecture and data structures | CI/CD with GitHub Actions | Automated unit and end-to-end tests with Pytest | Fully automated documentation with Sphinx | Object-oriented programming | Integration of Python's computational ecosystem: NumPy, SciPy, Pandas, NetworkX

PricewaterhouseCoopers AG, Transactions - Valuation & Strategy   *Berlin, Germany*
Intern   *Jun 16 - Aug 16*
- Assistance in the valuation of a technology company and in the conduct of an impairment test of a DAX30-company

Education

Humboldt University of Berlin   *Berlin, Germany*
MSc in Statistics | Average Grade: 1.6 (German) ≈ 3.6 (US)   *Oct 18 - Sep 21*
- *Thesis:* *Uncertainty Quantification with Bayesian Neural Networks* [GitHub][PDF]
- *Courses*: Stochastics, Advanced Econometrics, Financial Econometrics Statistical and Machine Learning, Bayesian Statistics / Computation - MCMC, Treatment Effects, Causal Inference, Data Science, Advanced Marketing Modelling

Technical University of Berlin   *Berlin, Germany*
BSc in Computer Engineering | Average Grade: 1.8 (German) ≈ 3.5 (US)   *Oct 17 - Feb 22*
- *Thesis:*: *Parametric Computation of Minimum Cost Flows in Python*
- *Courses*: Electrical Engineering, Signals and Systems, Hardware Design, Operating Systems, Data Structures, Algorithms, Artificial Intelligence, Reinforcement Learning Projects, ie. Teaching a Webots Robot how to drive and Self-Play Reinforcement Learning

University of Muenster   *Muenster, Germany*
BSc in Business Administration | Average Grade: 1.6 (German) ≈ 3.6 (US)   *Apr 13 - Aug 16*
- *Thesis:* *Default Correlation*

Widukind-Gymnasium Enger   *Enger, Germany*
Abitur / University Entrance Qualification | Average Grade: 1.8 (German) ≈ 3.5 (US)   *Aug 03 - Jun 12*

Interests, Languages & Skills

Interests	Outdoor / Sport: Hiking, Cycling, Soccer, Running, Swimming	(Audio)books	Cooking	Painting
Languages	German (nativ), English (fluently), Spanish / Italian / Lithuanian (basics)
Programming	Python (NumPy, SciPy, Pandas, PyTorch, Tensorflow, Stable Baselines, Jupyter Notebooks, etc.), SQL, R (tidyverse), MATLAB, C, Java
Data	Databricks, dbt, Power Query (M), SQL, Power BI, DAX, Excel
Misc Tech	Azure (DevOps), Git, LaTeX(Tikz / Overleaf / R Markdown), Microsoft Office, Linux, Mac,

Additional Activities (Selected)

2022   Joachims P, Klimm M, Warode P (2022). "Approximate Parametric Computation of Minimum-Cost Flows with Convex Costs". In: arXiv preprint. arXiv: 2203.13146.