Per Joachims

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Work Experience (Selected)

flaschenpost SE *Berlin, Germany*

Financial & Data Analyst *Oct 22 - now*

- Coordination and implementation of driver-based planning / modelling
- Financial data owner: Interactive data visualization of plan/actual comparisons, integrating and linking financial and operative KPIs
- ***Technical Skills:*** ETL with SQL + Power Query | Data modelling with DAX + visualization in MS Power BI / Excel

Humboldt-Universitaet zu Berlin, Chair of Operations Research *Berlin, Germany*

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
- ***Technical Skills:*** Quantitative modelling in MS Excel

eCAPITAL entrepreneurial Partners AG *Muenster, Germany*

Student Assistant *Apr 14 - Mar 15*

- Conducting business valuation with DCF and multiple analysis
- Analyses of business plans of potential investements, market and competitive situations

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 / Skills***: 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 / Skills***: 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	Power Query, SQL, Power BI, DAX, Tableu, Excel
Misc Tech	Microsoft Office, Git, LaTeX(Tikz / Overleaf / R Markdown), Linux, Google Cloud

Additional Activities

2022	Joachims P, Klimm M, Warode P (2022). "Approximate Parametric Computation of Minimum-Cost Flows with Convex Costs". In: arXiv preprint. arXiv: 2203.13146.
2016	Participation at Scotiabank International Case Competition