

Daniel Gomm

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Education

10/2020-12/2023	M. Sc. Industrial Engineering at Karlsruhe Institute of Technology (Germany) (Grade 1.0 (equiv. to GPA 4.0)) <ul style="list-style-type: none">- Emphasis on Data Processing and Machine Learning- Implementation of large-scale scholarly question answering system using natural language processing and knowledge graphs- Master's Thesis that proposes novel explanation methods for Temporal Graph Neural Networks based on counterfactuals
01/2022-06/2022	Exchange Semester M. Sc. level Computer Science at Aalto University (Finland) (Grade 4.7 (equiv. to GPA 3.8)) <ul style="list-style-type: none">- Emphasis on Big Data Platforms and Machine Learning
10/2016-10/2020	B. Sc. Industrial Engineering at Karlsruhe Institute of Technology (Germany) (Grade 1.7 (equiv. to GPA 3.3)) <ul style="list-style-type: none">- Emphasis on emerging Technologies: MEMS, Robotics, AI- Bachelor's thesis on dynamic distribution of computing operations in stream processing pipelines across edge and cloud nodes

Work Experience

Since 10/2024	PhD Student at Centrum Wiskunde & Informatica (Amsterdam, Netherlands) <ul style="list-style-type: none">- Contextualizing generative AI systems in structured data
04/2024-08/2024	European Commission: Scientific Trainee at the Joint Research Center (Ispra, Italy) <ul style="list-style-type: none">- Research into using AI Agents in enforcement of the Digital Services Act within the European Center for Algorithmic Transparency
10/2022-03/2023	Intel: Working Student Software Engineering (Karlsruhe, Germany) <ul style="list-style-type: none">- Work on System Trace tool; software tooling for (pre-production) silicon debugging and tracing
11/2020-12/2021	Forschungszentrum Informatik (Research Center Informatics): Research Assistant (Karlsruhe, Germany) <ul style="list-style-type: none">- Integration of findings from bachelor thesis into open-source industrial IoT stream processing toolbox Apache StreamPipes- Software development at the intersection of research and production ready applications
10/2019-03/2020	Robert Bosch GmbH: Intern in IT-Program-Management (Stuttgart, Germany) <ul style="list-style-type: none">- Development of classification model for part numbers (on own initiative)

Extracurricular Activities

05/2018-11/2019	Enactus KIT e.V. (Karlsruhe, Germany) <ul style="list-style-type: none">- Project lead for the project "unwrapped" aiming at establishing a sustainable, local, zero-waste grocery delivery system
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IT-Skills

General purpose IT

Microsoft Office	E
Linux Administration	P
LaTeX	P

Programming Languages

Java	E
Python	E
JavaScript/TypeScript	I
Bash	I

Relevant (ML) Libraries

PyTorch	P
numpy/scipy/pandas	P
PyTorch geometric	I

DevOps&HPC Technologies

Docker(-compose)	P
Slurm	I
Kubernetes	B

Project Management

Git	E
Jira	P

Extensive working experience:

< 6 months: Beginner	B
< 12 months: Intermediate	I
< 24 months: Proficient	P
> 24 months: Expert	E

Languages

German	C2
English	C1
Spanish	B1

Publications

- "GreeDy and CoDy: Counterfactual Explainers for Dynamic Graphs." [ArXiv abs/2403.16846](https://arxiv.org/abs/2403.16846) (2024). (initial pre-print)