Daniel Gomm

PhD Student at Centrum Wiskunde & Informatica

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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))	
	- 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-	Exchange Semester M. Sc. level Computer Science at Aalto	
06/2022	University (Finland) (Grade 4.7 (equiv. to GPA 3.8))	
	- Emphasis on Big Data Platforms and Machine Learning	
10/2016-	B. Sc. Industrial Engineering at Karlsruhe Institute of	
10/2020	Technology (Germany) (Grade 1.7 (equiv. to GPA 3.3))	
	- Emphasis on emerging Technologies: MEMS, Robotics, Al	
	- Bachelor's thesis on dynamic distribution of computing operations	
	in stream processing pipelines across edge and cloud nodes	

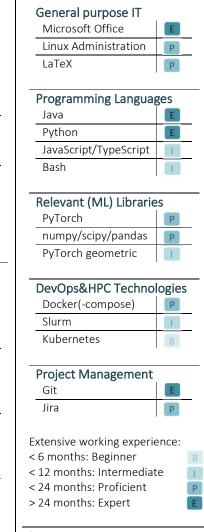
Work Experience

Since 10/2024	PhD Student at Centrum Wiskunde & Informatica (Amsterdam, Netherlands) - Contextualizing generative AI systems in structured data	
04/2024-	European Commission: Scientific Trainee at the Joint Research	
08/2024	Center (Ispra, Italy)	
	- Research into using AI Agents in enforcement of the Digital Services	
	Act within the European Center for Algorithmic Transparency	
10/2022-	Intel: Working Student Software Engineering (Karlsruhe,	
03/2023	Germany)	
	- Work on System Trace tool; software tooling for (pre-production)	
	silicon debugging and tracing	
11/2020-	Forschungszentrum Informatik (Research Center Informatics):	
12/2021	Research Assistant (Karlsruhe, Germany)	
	- 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-	Robert Bosch GmbH: Intern in IT-Program-Management	
03/2020	(Stuttgart, Germany)	
	- Development of classification model for part numbers (on own	
	initiative)	

Extracurricular Activities

05/2018-	Enactus KIT e.V. (Karlsruhe, Germany)	
11/2019	- Project lead for the project "unwrapped" aiming at establishing a	
	sustainable, local, zero-waste grocery delivery system	

IT-Skills



Languages

German	C2
English	C1
Spanish	B1

Publications

- "GreeDy and CoDy: Counterfactual Explainers for Dynamic Graphs." <u>ArXiv</u> <u>abs/2403.16846</u> (2024). (initial pre-print)