

EDUCATION

PhD Student Computational Science and Machine Learning	09/2020 - 08/2024
 University of Amsterdam Project at the intersection of deep learning, causality, and information theory Goal: to find useful notions of higher-order and causal interactions between random variables and the application in deep representation learning 	Amsterdam, Netherlands
Master of Science Artificial Intelligence	09/2018 - 08/2020
University of Amsterdam	Amsterdam, Netherlands
 GPA: 9.34/10, Cum Laude Thesis: A Wigner-Eckart Theorem for Steerable Kernels of General Compact Groups (grade: 9.5; only one other AI students reached this grade in 2019/20) 	
Master of Science Mathematics	10/2015 - 10/2017
University of Bonn	Bonn, Germany
 GPA: 1.0, with distinction. German grading scale with 1.0 as the best grade Thesis: The Asymptotic Behavior of Auslander-Reiten Translations (grade: 1.0))
Bachelor of Science Mathematics	10/2012 - 08/2015
University of Heidelberg	Heidelberg, Germany
 GPA: 1.1. German grading scale with 1.0 as the best grade Thesis: The Category Equivalence between Finite Fans and Normal Separated Toric Varieties (grade: 1.0) 	
Prestudies Mathematics, Calculus I	10/2011 - 03/2012
University of Würzburg	Würzburg, Germany
 A program that allows talented high school students to already study at university 	
High School	09/2004 - 06/2012
Balthasar-Neumann-Gymnasium	Marktheidenfeld, Germany
• GPA: 1.2. German grading scale with 1.0 as the best grade	
Final exams: mathematics, German, English, physics, geography	
Work Experience	
Data Analytics Intern CRM Analytics for Telekom AG	03/2018 - 07/2018
Detecon International GmbH	Cologne, Germany
Software Assistant Software Development in Java and C# for BMW	11/2017 - 01/2018

QAware GmbH PUBLICATIONS

Leon Lang, Maurice Weiler. A Wigner-Eckart Theorem for Group Equivariant Convolution Kernels. In International Conference on Learning Representations (ICLR), 2021.

Munich, Germany

• Top 2% of submitted papers in terms of average review score

Benjamin Kolb, **Leon Lang** et al. *Learning to Request Guidance in Emergent Communication*. In *EMNLP Workshop LANTERN*, 2019.

• Shared first author together with Benjamin Kolb

CONFERENCES AND SUMMER SCHOOLS

CONFERENCES AND SUMMER SCHOOLS	
International Conference on Learning Representations (ICLR)	05/2021
Poster presentation on our paper "A Wigner-Eckart Theorem for Group Equivariant Convolution Kernels"	Virtual
LANTERN Workshop at EMNLP	11/2019
Remote oral presentation on our paper "Learning to Request Guidance in Emergent Communication"	Hongkong
Human-aligned AI Summer School	07/2019
A summer school focused on optimization and decision making Topics: agent incentives, open-source game theory, machine learning 	Prague, Czech Republic
Honors and Awards	
Top of the Class in Deep Learning A research-oriented course with roughly 200 students, tied with one other student	04/2019 – 05/2019
Deutschlandstipendium <i>Germany Scholarship</i> Scholarship awarded to approximately 0.9% of students at any given time	04/2017 - 09/2017
Bundeswettbewerb Mathematik <i>German National Mathematics Competition</i> 1st prize in the first round of this prestigious mathematics competition	06/2012
TEACHING EXPERIENCE	
Causality Teaching Assistant	02/2021 - 05/2021
University of Amsterdam	Amsterdam, Netherlands
Machine Learning I Teaching Assistant	09/2020 - 10/2020
University of Amsterdam	Amsterdam, Netherlands
FACT-AI Teaching Assistant	01/2020 - 02/2020
 University of Amsterdam Supervising seven teams of four students each for a reproducibility research study 	Amsterdam, Netherlands
Deep Learning Teaching Assistant	11/2019 – 12/2019
University of Amsterdam	Amsterdam, Netherlands
Topology I Teaching Assistant	10/2016 - 03/2017
University of Bonn	Bonn, Germany
Calculus for CS students Teaching Assistant University of Bonn	04/2016 – 09/2016 Bonn, Germany
Linear Algebra I Teaching Assistant	10/2013 – 03/2014
University of Heidelberg	Heidelberg, Germany
EXTRACURRICULAR ACTIVITIES	
Main Organizer and Co-Founder AI Safety Student Reading Group	09/2018 - 07/2020
 University of Amsterdam Monthly discussion meetups with approximately 10 students on papers about different aspects of technical AI safety research 	Amsterdam, Netherlands
Main Organizer and Co-Founder Effective Altruism Student Group	09/2016 – 08/2017
University of Bonn	Bonn, Germany
Effective Altruism is a social movement and academic field investigating the most impactful ways to improve the world In the social movement and academic field investigating the most impactful ways to improve the world.	
 In the student group, we organized discussion meetups, talks by experts, and career workshops 	
SKILLS	

Languages: German (Native), English (Fluent)

Programming: Python (NumPy, Matplotlib, PyTorch), Java, C#, Matlab, SQL

Document Creation: LaTex