DR. MICHAEL LOHAUS

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Age: 31

"My reward is the **feedback** from people that I impact with my work. My focus has been on **fair and trustworthy AI**, and I want to continue to make AI **work for everyone**."

EDUCATION AND EXPERIENCE

2017 – 2022	Ph.D. in Theory of Machine Learning, <i>magna cum laude</i> International Max Planck Research School for Intelligent Syste Supervisor: Prof. Dr. Ulrike von Luxburg <i>Limitations of Fairness in Machine Learning</i>	University of Tübingen
5/2021-10/2021	Research Internship Led a research project on the disparate treatment of fair deep extensive experiments on AWS.	pment Center, Tübingen neural networks. Ran
2017 – 2021	Teaching Assistant Created weekly Algorithms excercises, and organised the tuto dents. Conducted tutorial sessions for Mathematics I.	University of Tübingen rial sessions for all stu-
2014 – 2017	M.Sc. in Economathematics, final grade: 1.6 University of Cologne Including one Erasmus semester in Budapest at the Eötvös Loránd University. Master Thesis under supervision of Prof. Dr. Frank Vallentin, final grade: 1.3 A Primal-Dual Algorithm for Semidefinite Programs.	
2013 – 2017	Tutor Conducted tutorial sessions for Analysis I, ODEs, Numerics I.	University of Cologne
2011 – 2014	B.Sc. in Economathematics, final grade: 1.5	University of Cologne

SKILLS

Python-advanced pytorch Latex-advanced Matlab-intermediate SQL-basic Java-intermediate C++-basic Git Bash MS Office AWS Cloud Slurm Languages German (native), English (fluent), French (A2)

Including one **Erasmus** semester in Lund at the Lunds Universitet.

PUBLICATIONS

Are Two Heads the Same as One? Identifying Disparate Treatment in Fair Neural Networks. M. Lohaus, M. Kleindessner, K. Kenthapadi, F. Locatello, C. Russell. NeurIPS, 2022.

Leveling Down in Computer Vision: Pareto Inefficiencies in Fair Deep Classifiers. CVPR, 2022. D. Zietlow, M. Lohaus, G. Balakrishnan, M. Kleindessner, F. Locatello, B. Schölkopf, C. Russell.

Insights into Ordinal Embedding Algorithms: A Systematic Evaluation. Under Review, 2021. L. C. Vankadara*, M. Lohaus*, S. Haghiri, F. Ul Wahab, U. von Luxburg.

Too Relaxed to Be Fair. ICML, 2020. M. Lohaus, M. Perrot, U. von Luxburg.

Uncertainty Estimates for Ordinal Embeddings. ArXiv preprint, 2019.

M. Lohaus, P. Hennig, U. von Luxburg.

SCHOLARSHIPS

2012 – 2017	Academic Foundation – based on academic performance and voluntary commitment.
2008 – 2009	Awared a scholarship for an academic year in Maryland, USA, with the Congress-Bundestag-Youth Exchange

VOLUNTARY ACTIVITIES

Since 2016	Deutsche Schülerakademie: German Summeracademy for talented High School stu-
	dents. Teacher of the course Machine Learning - For the Common Good? and the
	course 100 % Renewables? - The German Power Grid. Administrator and Organizer of
	one German Summeracademy.
	course 100 % Renewables? – The German Power Grid. Administrator and Organizer o

Since 2009	Partnership International e. V.
	Active Member for the support of exchange students, conduct of seminars, and public
	relations activities

Tübingen, December 13, 2022