Alexander Timans

PhD candidate at AMLab, UvA

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- ⚑ German

Languages

🇩🇪 German		●●●●●
🇬🇧 English		●●●●●
🇫🇷 French		●●●○○
🇷🇺 Russian		●●●○○

Technology

- </> R, Python (e.g. numpy, pandas, scikit, pytorch, opencv, matplotlib)
- 🛢 SQL (Postgre, Spark), NoSQL (XML, JSON, MongoDB, JSONiq)
- ☁ Azure, Hadoop, HBase, Spark (PySpark, SparkSQL, DataFrames)
- 🔧 Jupyter Notebook, Github, Git, Linux shell, Docker

Strenghts

- ⚙ Statistics & Machine Learning
- ⚙ Interdisciplinary research
- ⚙ Operating in multiple analytical fields
- ⚙ Research interactions and presentation
- ❯ Sociable and values team efforts
- ❯ Attentive, precise and meticulous
- ❯ Responsible and reliable
- ❯ Patient and perseverant

Education

from Oct 2022	**PhD candidate** **AMLab, University of Amsterdam (UvA)** Supervised by Eric Nalisnick, co-op. with Bosch Center for AI. Research topic: Uncertainty quantification for structured objects with applications to computer vision.
Sept 2020 – Sept 2022	**M.Sc. Statistics** **ETH Zurich** Final Grade: $\varnothing$ 5.5/6 (6 highest, 1 lowest)
Oct 2015 – Mar 2019	**B.Sc. Industrial Engineering and Management** **Karlsruhe Institute of Technology (KIT)** Final Grade: $\varnothing$ 1.5/5 (1 highest, Top 10 %)
2003 – 2015	**European Baccalaureate** **European School of Brussels I** Final Grade: 91.3/100 %
Awards	'Deutschlandstipendium' Scholarship 2017, 2018 'Deutsche Schülerakademie' Program 2014

Academic work

2023	**Workshop Paper**	UvA AMLab
	Adaptive Bounding Box Uncertainty via Conformal Prediction. Accepted to UnCV Workshop at ICCV 2023.	
2022	**Journal Paper**	ETH MIE Lab
	Uncertainty Quantification for Image-based Traffic Prediction across Cities. Currently under review.	
2022	**Master Thesis ($\varnothing 5.75/6$)**	ETH SfS & MIE Lab
	Uncertainty Quantification for Image-based Traffic Prediction.	
2021	**Course Project**	ETH Deep Learning course
	Fake Image Detectors Are Worse Than You Think (team work).	
2021	**Seminar Project**	ETH SfS & WSL Institute Davos
	Risk Modelling for Road Traffic Accidents (team work).	
2019	**Bachelor Thesis ($\varnothing 1.0/5$)**	Institute for Finance, KIT
	Forecasting the U.S. Stock Market Illiquidity using Machine Learning Techniques.	
2018	**Research Project**	Institute for Applied Informatics, KIT
	Smarter Cities: Detecting Energy Saving Potentials in Public Buildings using Motif Discovery.	

Teaching and Supervision

Fall 2023	**Human-in-the-Loop Machine Learning** Master's course at AMLab, UvA.
Fall 2023	**Leren ('Learning')** Bachelor's course on Machine Learning at AMLab, UvA.
Spring 2023	**Bachelor thesis** Supervision of Derck Prinzhorn. Topic: Benchmarking conformal prediction methods for time series regression.
Spring 2023	**Deep Learning II** Master's course at AMLab, UvA.
Fall 2021	**Applied Analysis of Variance and Experimental Design** Master's course at the Seminar for Statistics, ETH Zurich.
Fall 2017	**Econometrics** Bachelor's course at the Chair of Statistics, KIT.

Work Experience (latest)

Summer 2019	Data Analysis & Media Intern at Applico	New York City
Summer 2019	Project Management Intern at AT Consult	New York City
Jun 2017 – Oct 2018	Research Assistant at the Chair of Statistics, KIT	Karlsruhe
Fall 2017	Data Science Intern at Global Market Solutions (GMS)	Frankfurt