

Alexander Timans

Email: a.r.timans@uva.nl

Website: alextimans.github.io

Current location: Amsterdam, Netherlands

EDUCATION

PhD candidate

Oct 2022 – ongoing

Amsterdam Machine Learning Lab, University of Amsterdam

Supervision: Eric Nalisnick & Christian Naesseth, in co-op. with the Bosch Center for AI.

Topic: Uncertainty Quantification for Structured Objects.

M.Sc. Statistics

Sep 2020 – Sep 2022

ETH Zurich

Grade: \emptyset 5.5/6 (6 highest, 1 lowest)

Thesis Topic: Uncertainty Quantification for Image-based Traffic Prediction.

Key courses: Bayesian Statistics, Probabilistic AI, Deep Learning

B.Sc. Industrial Engineering and Management

Oct 2015 – Mar 2019

Karlsruhe Institute of Technology (KIT)

Grade: \emptyset 1.5/5 (1 highest, Top 10%)

Thesis Topic: Forecasting the U.S. Stock Market Illiquidity using Machine Learning Techniques.

Key courses: Statistics, Operations Research, Advanced Programming

PUBLICATIONS

M. Jazbec*, **A. Timans***, T. H. Veljković, K. Sakmann, D. Zhang, C. A. Naesseth, E. Nalisnick.

Fast yet Safe: Early-Exiting with Risk Control [\[Link\]](#).

In *Advances in Neural Information Processing Systems* (NeurIPS), 2024.

A. Timans, C.-N. Straehle, K. Sakmann, E. Nalisnick.

Adaptive Bounding Box Uncertainties via Two-Step Conformal Prediction [\[Link\]](#).

In *Proceedings of the European Conference on Computer Vision* (ECCV), 2024. **Oral paper (Top 8%)**.

D. W. E. Prinzhorn, T. Nijdam, P. A. van der Linden, **A. Timans**.

Conformal time series decomposition with component-wise exchangeability [\[Link\]](#).

In the *Symposium on Conformal and Probabilistic Prediction with Applications* (PMLR), 2024.

FURTHER RESEARCH PROJECTS

A. Timans, C.-N. Straehle, K. Sakmann, C. A. Naesseth, E. Nalisnick.

Max-Rank: Efficient Multiple Testing for Conformal Prediction [\[Link\]](#).

arXiv Preprint, 2024.

A. Timans, N. Wiedemann, N. Kumar, Y. Hong, M. Raubal.

Uncertainty Quantification for Image-based Traffic Prediction across Cities [\[Link\]](#).

arXiv Preprint, 2023.

D. Kamm, N. Muntwyler, **A. Timans**, M. Vandenhirtz (alphabetical order).

Fake image detectors are worse than you think [\[Link\]](#).

Course Project, 2021.

EMPLOYMENT

- Research Intern** (incoming) Jan 2024 – Mar 2024
RIKEN Center for Advanced Intelligence Project, Tokyo
Exploring novel applications of variational optimization with the Approximate Bayesian Inference Team.
- Data Analysis & Media Intern** Jul 2019 – Oct 2019
Applico Inc, New York City
I helped improve the Salesforce database quality and ran communication for a newly launched campaign.
- Project Management Intern** Apr 2019 – Jun 2019
AT Consult, New York City
I supported foreign direct investment clients with market research, lead identification and outreach.
- Research Assistant** Jun 2017 – Oct 2018
KIT Chair of Statistics, Karlsruhe
I assisted with developing exercise and lecture materials, research data collection, and student assistance.
- Data Science Intern** Sep 2017 – Dec 2017
Global Market Solutions & Commerzbank, Frankfurt am Main
I implemented a python prototype to compute risk measures following new regulations (MiFID II).
- Financial Consulting Trainee** Oct 2016 – Mar 2017
Tecis Financial Services, Karlsruhe
I worked on the side in financial consulting, sales and prospect generation.

COMMUNITY SERVICES

- Reviewing** International Conference on Artificial Intelligence and Statistics 2025
International Conference on Learning Representations 2025
Conference on Neural Information Processing Systems 2024
International Conference on Computer Vision 2023
- Teaching & Supervision** Master Thesis, Alejandro Monroy Muñoz (incoming), 2025
Master Thesis, Dominykas Šeputis (incoming), 2025
Master Thesis, Jesse Brouwers (incoming), 2025
Project AI, Master course @ University of Amsterdam, 2024
Human-in-the-Loop ML, Master course @ University of Amsterdam, 2023
Introduction to ML, Bachelor course @ University of Amsterdam, 2023
Bachelor Thesis (**Thesis award**), Derck Prinzhorn, 2023
Deep Learning II, Master course @ University of Amsterdam, 2023
ANOVA, Master course @ ETH Zurich, 2021
Econometrics, Bachelor course @ KIT, 2017

OTHER

- Honors:** [ELLIS](#) PhD Track, ‘Deutschlandstipendium’ Scholarships 2017 & 2018.
Spoken Languages: English, German, French, Russian.
Coding Languages: Python (incl. PyTorch, Scikit, Numpy, Scipy, Pandas, OpenCV), R, Java, HTML.
Past engagements: Model UN, Debating & Finance Societies, Student Council, Social Entrepreneurship.