Thijmen Nijdam

thijmen.nijdam@gmail.com

Education

M.Sc. Artificial Intelligence Sep 2023 – Ongoing
University of Amsterdam
Current Grade: 8.2/10

B.Sc. Artificial Intelligence Sep 2020 – Jul 2023
University of Amsterdam
Graduated with honours (Grade: 8.1/10)
Thesis: Leak Failure Detection in Refrigeration and Cold Storage Systems

Publications

C. van den Elsen*, F. Barkhof*, **T. Nijdam***, S. Lupart, M. Allinanejadi.
Reproducing NevIR: Negation in Neural Information Retrieval.
In *Special Interest Group on Information Retrieval* (SIGIR), 2025.

D. W. E. Prinzhorn*, **T. Nijdam***, P. A. van der Linden, A. Timans.
Conformal time series decomposition with component-wise exchangeability.
In *Symposium on Conformal and Probabilistic Prediction with Applications* (PMLR), 2024.

T. Nijdam, J. Sprott, T. Papandreou-Lazos, J. de Heus.
Reproducibility Study of Learning Fair Graph Representations via Automated Data Augmentations.
In *Transactions on Machine Learning Research* (TMLR), 2024.

Other Research Projects

C. Zhang, D. Cherniavskii, A. Zadaianchuk, A. Tragoudaras, A. Vozikis, **T. Nijdam**, D. W. E. Prinzhorn, M. Bodracska, N. Sebe, E. Gavves.
Morpheus: Benchmarking Physical Reasoning of Video Generative Models with Real Physical Experiments.
Preprint *(in submission)*, 2025.

Experience

AI Software Developer *LeerLevels, Amsterdam* Apr 2022 – Ongoing
Developing APIs powered by large language models for automated grading and content generation. Also optimizing a knowledge graph to enhance content structure and retrieval.

Research Internship, *University of Amsterdam* Sep 2024 – Dec 2024
Investigated 3D diffusion models for CT scan data to improve radiotherapy treatment planning. Supervised by Stefanos Achlatis.

Machine Learning Engineer, *Dutch Nao Team, Amsterdam* Feb 2023 – Jan 2024
Contributed to a student robotics team competing in robot soccer. Developed ball detection using Single Shot Detector and implemented a whistle detection model.

Other

Hackathons: European Robotics Forum Hackathon (2022), AI Safety Hackathon (2024)
Competitions: German Open Replacement Cup (2023), RoboCup (2023)
Projects: Designed a hands-on assignment for the BSc AI open campus day (2022)
Languages: Dutch, English