Julian Dierkes

Curriculum Vitae

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Education

Since 2023 **PhD Student**, *RWTH Aachen University*, Chair for AI Methodology
Working on Automated RL supervised by Professor Holger Hoos

2020-2022 **Computer Science M.Sc.**, *RWTH Aachen University*
Minor Mathematics, Grade 1.1 (with distinction, GPA: 3.9)

2018–2019 **Study Abroad**, *Keio University*, Tokyo

2016–2020 **Computer Science B.Sc.**, *RWTH Aachen University*
Minor Mathematics, *Grade 1.4 (very good, GPA: 3.7)*

2008–2016 **Abitur**, *St. Michael secondary school*, Ahlen
Best student in Computer Science, *Grade 1.2 (very good, GPA: 3.9)*

Work Experience

Since 04.2023 **Collaborator, ProKI Network**, *AI in Industrial Engineering Applications*
Collaborating on the exploration of AI for industrial engineering solutions

01.2021–11.2022 **Student Assistant**, *Automatic Speech Recognition*, RWTH Aachen University
Working on large-scale foundational models with cutting-edge self-supervised algorithms for feature representation learning

09.2019–12.2019 **Student Assistant**, *Machine Translation*, RWTH Aachen University
Working on sentence embedding learning for neural machine translation systems

Scientific Contributions

2024 Co-organising the ICML Workshop on Automated Reinforcement Learning (workshop website)

Lead authored the academic paper *ARLBench: Flexible and Efficient Benchmarking for Hyperparameter Optimization in Reinforcement Learning* accepted at EWRL and under peer-review at JMLR (pdf)

Lead authored the academic paper *Combining Automated Optimisation of Reinforcement Learning Hyperparameters and Reward Shape* published in the Reinforcement Learning Conference 2024 (pdf)

2023 Co-authored the academic paper *Efficient Utilization of Large Pre-Trained Models for Low Resource ASR* published in the 2023 IEEE International Conference on Acoustics, Speech, and Signal Processing Workshops (pdf)

Awards

2019-2022 Receiving the *Porsche* and *Deutschland Stipendium* scholarship

2015 First prize in the category Mathematics at the *Dr. Hans-Riegel Fachpreise 2015* awarded with 500 €

2015 Among the 5% best participants in the *Bundeswettbewerb Informatik 2015*, a Germany wide Computer Science competition

Skills

Software Engineering: Skilled working with Linux, Git, Latex and complex development and cluster environments

Very experienced in Python, advanced knowledge of C++ and Java

Languages: German (Native Language), English (Fluent), Japanese (Basic)