# Julian Dierkes
*Curriculum Vitae*

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## Education

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|---|---|
| Since 2023 | **PhD Student**, *RWTH Aachen University*, Chair for AI Methodology<br>Working on Automated RL supervised by Professor Holger Hoos |
| 2020-2022 | **Computer Science M.Sc.**, *RWTH Aachen University*<br>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*<br>Minor Mathematics, *Grade 1.4 (very good, GPA: 3.7)* |
| 2008–2016 | **Abitur**, *St. Michael secondary school*, Ahlen<br>Best student in Computer Science, *Grade 1.2 (very good, GPA: 3.9)* |

## Work Experience

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| Since 04.2023 | **Collaborator, ProKI Network**, *AI in Industrial Engineering Applications*<br>Collaborating on the exploration of AI for industrial engineering solutions |
| 01.2021–11.2022 | **Student Assistant**, *Automatic Speech Recognition*, Chair i6 RWTH Aachen<br>Working on large-scale foundational models with cutting-edge self-supervised algorithms for feature representation learning |
| 09.2019–12.2019 | **Student Assistant**, *Machine Translation*, Chair i6 RWTH Aachen<br>Working on sentence embedding learning for neural machine translation systems |

## Scientific Contributions

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| 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

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| 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

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| 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) |