

Brian B. Moser

Senior AI Researcher

* 1 March 1995
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Core Strengths

- **Scientific Background:** Over 35 scientific publications, including top peer-reviewed conferences (see Publications) with over 500 citations. I have also been a recurrent reviewer for top conferences and journals like NeurIPS, CVPR ICML, ICLR, AAAI, ICCV/ECCV, and TPAMI.
- **Supervisory Skills:** I have supervised 10+ Master's theses, 5+ Bachelor's theses, and numerous projects and seminars with students from the RPTU Kaiserslautern-Landau.
- **Organizational Skills:** While pursuing my PhD, I also ran my own company, managing a team of 20-30 employees.
- **Technical Skills:** Years of experience in various software development fields, including the broader field of image processing and game development.

Education

- 2021 – 2025 **PhD (rer.nat., Summa Cum Laude)**, *RPTU Kaiserslautern-Landau, GER*
2018 – 2021 **M.Sc. in Computer Science**, *TU Kaiserslautern, GER*
2014 – 2018 **B.Sc. (Major: CS; Minor: Mathematics)**, *TU Kaiserslautern, GER*

Job Experience

- Since 2025 **Senior Researcher**, *German Research Center for Artificial Intelligence, GER*
Since 2019 **Chief Executive Officer**, *Moser Group, Kaiserslautern, GER*
2021 – 2025 **PhD Researcher**, *German Research Center for Artificial Intelligence, Kaiserslautern, GER*
2018-2022 **Full-Stack Software Developer**, *uii GmbH, Kaiserslautern, GER*
2018-2021 **Student Research Assistant**, *German Research Center for Artificial Intelligence, Kaiserslautern, GER*
2015-2018 **Part-Time Administration**, *Moser GmbH, Kaiserslautern, GER*
2014 – 2015 **Student Research Assistant**, *TU KL: Robotics, Kaiserslautern, GER*

Languages

German Native
English C2
French A1

European Language Levels

Selected Publications

- 2026 **When Pretty Isn't Useful: Investigating Why Modern Text-to-Image Models Fail as Reliable Training Data Generators**, *IEEE/CVF Computer Vision and Pattern Recognition (CVPR)*, 1st Author
- 2026 **PRISM: Diversifying Dataset Distillation by Decoupling Architectural Priors**, *Transactions on Machine Learning Research (TMLR)*, 1st Author
- 2025 **Unlocking Dataset Distillation with Diffusion Models**, *Conference on Neural Information Processing Systems (NeurIPS)*, 1st Author
- 2025 **TKG-DM: Training-free Chroma Key Content Generation Diffusion Model**, *IEEE/CVF Computer Vision and Pattern Recognition (CVPR)*, Co-Author
- 2025 **Dynamic Attention-Guided Diffusion for Image Super-Resolution**, *IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)*, 1st Author
- 2025 **SpotDiffusion: A Fast Approach For Seamless Panorama Generation Over Time**, *IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)*, Co-Author
- 2025 **Zoomed In, Diffused Out: Towards Local Degradation-Aware Multi-Diffusion for Extreme Image Super-Resolution**, *IEEE International Conference on Image Processing (ICIP)*, 1st Author
- 2024 **Diffusion Models, Image Super-Resolution and Everything: A Survey**, *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*, 1st Author
- 2023 **Hitchhiker's Guide to Super-Resolution: Introduction and Recent Advances**, *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, 1st Author
- 2022 **Less is More: Proxy Datasets in NAS approach**, *IEEE/CVF Computer Vision and Pattern Recognition Conference (CVPR)*, 1st Author