Nick Lemke

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in Nick Lemke

Employment History

05/2024 - · · · · · ·	Ph.D. student, MEC-Lab, TU Darmstadt
	Research on resource-constrained AI for medical image analysis

2017 – 2023 Private tutoring in high school level computer science, mathematics, physics, chemistry, and English.

Education

05/2024 - · · · · · ·	Ph.D. student, MEC-Lab, TU Darmstadt Research on resource-constrained AI for medical image analysis
01/2023 - 04/2024	M.Sc. Computer Science, TU Darmstadt. Thesis title: Distribution-Aware Replay for Continual MRI Segmentation.
10/2020 - · · · · · ·	B.Sc. Mathematics, TU Darmstadt.
10/2019 - 01/2023	B.Sc. Computer Science, TU Darmstadt. Thesis title: Convert a high-polygon mesh to a low-polygon mesh with a displacement map.

Research Publications

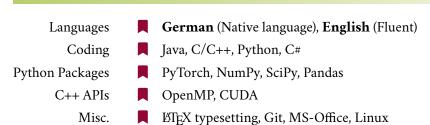
Journal Articles

1 C. Gonzalez, **N. Lemke**, G. Sakas, and A. Mukhopadhyay, "What is wrong with continual learning in medical image segmentation?," 2023. arXiv: 2010.11008.

Conference Proceedings

N. Lemke, C. González, A. Mukhopadhyay, and M. Mundt, "Distribution-aware replay for continual mri segmentation," in *International Workshop on Personalized Incremental Learning in Medicine*, Springer, 2024, pp. 73–85.

Skills



Miscellaneous Experience

Awards and Achievements

Winner of the AI Competition Wettbewerb KI in der Medizin held at TU Darmstadt. Topic: Classification and onset detection of seizures in EEG recordings.

Second place in the Hackathon *ProKI* hosted by the departments of mechanical engineering at TU Darmstadt and Karlsruhe Insitute of Technology, as well as Fraunhofer LBF, Verein Deutscher Ingenieure and the Freudenberg Group.

Topic: Predicting a wear and tear index for milling tools.