STEFAN DENNER

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Education

since 2022 **PhD Candidate** — **German Cancer Research Center (DKFZ)**
- Machine Learning in Medical Imaging, Automatic Data Annotation and Curation, Interactive Learning
- Supervised by Prof. Klaus Maier-Hein

2018 — 2021 **Master of Science *with distinction*, Informatics** — **Technical University of Munich**
- Thesis: *GPS in the Heart — Towards a Purely Biosignal Based Intracardiac Navigation System* supervised by Prof. Daniel Cremers (grade: 1.0)
- Emphasis: Machine Learning and Computer Vision
- Final grade: 1.5 (approx. 3.5 / 4.0 GPA)

2014 — 2018 **Bachelor of Engineering, Computer Science** — **University of Applied Sciences Würzburg**
- Thesis: *Integration and Evaluation of Natural Language Processing APIs in Smart Home Applications* supervised by Prof. Rolf Schillinger
- Emphasis: Software Engineering and Mobile Solutions

Experience

2020 — 2021 **Research Internship** — **Ablacon GmbH, Munich**
- Researched and evaluated machine learning algorithms analyzing intracardiac biosignals.
- Contributed to the ablamap, the current state of the art in therapy guidance for atrial fibrillation.

2018 — 2019 **Software Engineer (Working student)** — **BOTfriends GmbH, Würzburg**
- Led, designed and developed Chatbots for customers, such as Porsche, Bosch and T-Systems.
- Planned and executed an on-site workshops.

2017 — 2018 **Software Engineer (Working student)** — **grandcentrix GmbH, Cologne**
- Integrated voice assistance into an existing smart home system.

2016 — 2017 **Software Engineer (Dual student)** — **enowa AG, Rottendorf**
- Designed and developed a web application to manage freelancer contracts.
- Ported applications from native environments into Docker containers (incl. database migration).

Publications

2022 Grund, T., Haeusser, P., Ruppersberg, P., Luksic, D., **Denner, S.**, Ahapov, K., 2022. Machine Learning-Based Electroanatomical Mapping of the Heart with Generation of 3D Reconstructions from Biosignals. U.S. Patent 63/323,163, filed March 24, 2022. Patent pending.

2021 **Denner, S.**, Haeusser, P., Ruppersberg, P., Luksic, D., Grund, T., 2021. Biosignal-Based Intracardiac Navigation Systems, Devices, Components and Methods. U.S. Patent 63/222,346, filed July 15, 2021. Patent pending.

2021 Baur, C., **Denner, S.**, Wiestler, B., Navab, N. and Albarqouni, S., 2021. Autoencoders for unsupervised anomaly segmentation in brain mr images: A comparative study. *Medical Image Analysis*, p.101952.

2020 **Denner, S.**, Khakzar, A., Sajid, M., Saleh, M., Spiclin, Z., Kim, S.T. and Navab, N., 2020. Spatio-temporal learning from longitudinal data for multiple sclerosis lesion segmentation. In *International MICCAI Brainlesion Workshop*. Springer, Cham.

Skills

Programming Python, JavaScript, Java/Java EE, Kotlin, Bash

Technologies Docker, Kubernetes, Git, GitLab, AWS, GCP, Node.js, Vue.js, PostgresQL, MongoDB, PyTorch, Keras, Tensorflow, Scipy, NumPy, pandas, matplotlib, plotly

Languages German (Native), English (C1; IELTS: 8.0), Spanish (A2)