Anna Maria Wundram

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Education

Eberhard Karls Universität — Tübingen, GER
M.Sc. in Machine Learning — 2021 - 2024
Thesis: Conformal Performance Range Prediction for Segmentation Output Quality Control (Grade: 1.0/1.0)
Led to a publication at MICCAI UNSURE and won Best Paper Award.

Eberhard Karls Universität — Tübingen, GER
B.Sc. in Bioinformatics — 2018 - 2021
Thesis: Analysis of Breast Cancer Serum Tumor Markers with Machine Learning Methods (Grade: 1.0/1.0)

Experience

Universität Luzern — Lucerne, CH
PhD Candidate — February 2025 - Present
- Led the conceptual development of my PhD project under supervisor guidance following an extensive literature review. The first project resulted in a paper accepted as an Oral presentation at MICCAI UNSURE within the first six months. Served as as teaching assistant which involves holding tutorials and creating weekly exercise sheets. Peer reviewing for MIDL conference and Medical Image Analysis Journal.

Eberhard Karls Universität — Tübingen, GER
Research Assistant — July 2023 - March 2024
- Collaborated with clinical experts and conveyed complex technical concepts to audiences across diverse disciplines. This work led to a publication at MIDL and won Best Poster Award.

Leadership & Development

MIDL Foundation — remote
Young Researcher Board Member — Ocotber 2024 - Present
- Organised five workshops for an international audience with more than thirty regular attendees and prominent speakers within the field.

Public Library — Tübingen, GER
Reading Mentor — October 2021 - July 2023
- Mentored two students to improve reading comprehension by selecting literature tailored to their needs and learning styles; completed specific training to ensure responsible and safe guidance.

Faelynn - Das Initium
Debut novel — November 2022
- Self-published a fiction novel alongside my academic studies involving marketing, accounting and working with independent contractors such as designers and editors.

Publications

Wundram, Anna M, and Christian F Baumgartner. "Is Uncertainty Quantification a Viable Alternative to Learned Deferral?" *International Workshop on Uncertainty for Safe Utilization of Machine Learning in Medical Imaging*. Springer, 2025, pp. 34–44. **Oral presentation**.

Wundram, Anna M, et al. "Conformal performance range prediction for segmentation output quality control". *International Workshop on Uncertainty for Safe Utilization of Machine Learning in Medical Imaging (UNSURE)*. Springer, 2024, pp. 81–91. **Best Paper Award**.

Wundram, Anna M, et al. "Leveraging probabilistic segmentation models for improved glaucoma diagnosis: A clinical pipeline approach". *Medical Imaging with Deep Learning (MIDL)*. 2024. **Best Poster Award**.