

# Anna Maria Wundram

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## Education

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**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

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**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 a 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

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**MIDL Foundation** remote  
*Young Researcher Board Member* October 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** November 2022  
*Debut novel*

- Self-published a fiction novel alongside my academic studies involving marketing, accounting and working with independent contractors such as designers and editors.

## Publications

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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 (UNSURE)*. (in print), **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**.