TERESA SCHEIDT

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EDUCATION

08.2020 – 06.2022	**M.Sc. Machine Learning, Systems and Control**	*Lund University, Sweden*
10.2016 – 01.2020	**B.Sc. Medical Technology**	*University of Tübingen, University of Stuttgart*

RESEARCH & WORK EXPERIENCE

04.2023 – 03.2026   **PhD Student**   *Technical University of Denmark*
- Topic: Next generation explainability for AI

06.2022 – 12.2022   **Research Engineer**   *Faculty of Medicine, Lund University*
- Implementation of data analysis pipeline for diffusion MRI in python
- Analysis of large study cohort
- accepted abstract at ISMRM 2023

01.2022 – 06.2022   **Master Thesis**   *Faculty of Medicine, Lund University*
- Title: Probing gray matter microstructure in Alzheimer's disease using diffusion MRI
- Implementation of data analysis pipeline for diffusion MRI data in python
- Development of new method for data extraction in gray matter

10.2021 – 12.2021   **Research Internship**   *AI Singapore*
- Competitive scholarship from the *DAAD Rise weltweit* program
- Implementation of SoA DeepFake methods in python
- Data analysis of a large user study on detection of DeepFakes

09.2021 – 12.2021   **Teaching Assistant**   *Control Department, Lund University*
- Preparation and supervision of exercise sessions for the course *Modelling and Learning from Data*

09.2021 – 10.2021   **Supplementary Instructions Leader**   *Lund University*
- Preparation and supervision of SI sessions for the course *Image analysis*

06.2021 – 09.2021   **Research Internship**   *University of Siegen*
- Successfully completed a 3-month research topic by publishing a paper at the conference RecSys'21 (Perspectives Workshop)
- Implementation of a new evaluation method for recommender systems in python

02.2020 – 06.2020   **Working Student in Quality Management**   *Ovesco, Tübingen*
- Preparation and revision of important regulatory documents and large overview documents in Excel
- Creation of new regulatory documents to meet the new MDR

04.2019 – 09.2010   **Bachelor Thesis**   *Erbe Elektromedizin GmbH, Tübingen*
- Development and implementation of an evaluation system for electrosurgical tissue effects based on image analysis

10.2018 – 02.2019	**Tutor**	*Mathematics Department, University of Stuttgart*

- Preparation and supervision of exercise sessions for the course *Higher mathematics*

PUBLICATIONS

05.2023	Lenka Tvetkova, Thea Brusch, Teresa Scheidt, Fabian Martin Mager, R. Aagaard, Jonathan Foldager, Tommy Sonne Alstrom, Lars Kai Hansen. **On convex conceptual regions in deep network representations.** arxiv, http://arxiv.org/abs/2305.17154
09.2021	Scheidt, Teresa, and Joeran Beel. "**Time-dependent Evaluation of Recommender Systems.**" *2021 Perspectives on the Evaluation of Recommender Systems Workshop, Perspectives 2021*. **Best paper award**

VOLUNTEERING

01.2021 – 06.2022	**Student Ambassador**	*Lund University*

- Greatly improved my intercultural communication skills by connecting with prospective students from all over the world, representing the university
- Successful participation in several leadership and management seminars

01.2021 – 01.2022	**Member of the Equality Committee**	*Lund University*

- Part of a Student Union, responsible for equality within the Student Union and well-being of all students
- Strengthened my team-work and organizational skills by planning and executing very successful events (up to 60 participants) every month

PERSONAL SKILLS

Languages	German (*mother tongue*), English (*C2*), Swedish (*A2*), Danish (A1)
Programming	Python (*proficient in Keras, Scikit-Learn, TensorFlow, PyTorch and others*) Matlab and Matlab Simulink Software for MRI data analysis (*MRtrix, ANTs, FSL, FreeSurfer*)
Technical Skills	Version Control (Git), Unix, Latex