

Joshua Sammet

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Education

M.Sc. Biomedical Engineering 2021 - March 2024

ETH Zurich

Scholarship: *Evangelisches Studienwerk e.V. Villigst*

Major: *Bioimaging*

Semester project: *Deep Learning-based 3D Registration of an MRI-Optoacoustic Image Dataset.*

Exchange student

January - June 2023

NTNU Trondheim

Visiting student

September - October 2022

University of Oxford

Semester project: *Inferring iron modality interactions using brain image based neural networks to predict blood iron levels in UK Biobank*

B.Sc. Computational Science & Engineering

2017 - 2021

ETH Zurich

Scholarship: *Evangelisches Studienwerk e.V. Villigst*

Thesis project: *Predictive Activity Change To Map An Area Of Interest*

Work experience

Department of Child and Adolescent Psychiatry, UPK Basel

July 2021 - July 2023

Research Assistant

Basel, Switzerland

- Preprocessing of dwMRI images and creation of connectomes from the FemNAT dataset
- Group-based analysis of differences in connectomes of conduct disorder patients & healthy controls

Jacobs Center for Productive Youth Development, University of Zurich Sept. - Dec. 2021

Research Assistant

Zurich, Switzerland

- PCA of multiple study questionnaires about psychological well-being during Corona

Jung Diagnostics GmbH

October 2020 - May 2021

Working Student

Hamburg, Germany

- Explored applications of neural networks to classify diseases in lung X-Ray images

Custom Solution Development, Capgemini Hamburg

October 2020 - February 2021

Intern

Hamburg, Germany

- Designed a platform to match available working students to open positions in project
- Implemented a fully functioning backend for the platform

Digital Circuits lecture

September 2018 - December 2018

Teaching Assistant

Zurich, Switzerland

- Planned and held exercise session during the term
- Corrected weekly assignments

Conference attendances

ESCAP 2023	Symposium presentation: <i>The connectomes of conduct disorder: Novel insight into the neurobiological mechanisms of CD?</i>
AAIC 2023	Poster presentation: <i>Inferring iron modality interactions using brain image based neural networks to predict blood iron levels in UK Biobank</i>

Extracurricular activities

Evangelisches Studienwerk Villigst	<i>May 2021 - May 2022</i>
<i>Member of the student council</i>	<i>Schwerte, Germany</i>
Represented the body of scholarship holders for one year. Responsible for communication between local student groups, within the scholarship organization and students of other scholarship organizations.	
Evangelisches Studienwerk Villigst	<i>February 2019 - March 2021</i>
<i>Speaker of local scholarship holders</i>	<i>Zurich, Switzerland</i>
Organized meetings of local scholarship holders. Communicated information from the organization and welcomed incoming students.	
Handball	<i>September 2013 - Present</i>
<i>Referee</i>	
Refereed games in youth and lower adult divisions in Germany and Switzerland.	

Technical skills

Programming Languages	Python, Git, Bash, R, Matlab, C++
Programming Tools	Machine learning (PyTorch), High-Performance Computing
Brain Imaging Tools	Freesurfer, MRtrix, GraphVar

Language proficiencies

German	Native
English	Fluent
Norwegian	A1