DANIEL ROELFS

| WORK EXPERIENCE | |
|---|----------------|
| DNB - GROUP SECURITY - GROUP AML Data Scientist | 2022 - CURRENT |
| Data scientist in the Anti-Money Laundering Group at DNB Creating machine learning models using Python, R, and AWS cloud services and putting models in production | |
| UNIVERSITY OF OSLO - NORMENT - MULTIMODAL IMAGING GROUP | 2019 - 22 |
| Doctoral Research Fellow | |
| PhD position on neuroimaging and genetics Running a study from conception through writing the final manuscript, analysis in R, Python, MATLAB, and a variety of additional tools | |
| UNIVERSITY OF OSLO - NORMENT - EEG GROUP | 2018 - 19 |
| Research Assistant | |
| • Managing EEG data, data preprocessing and analysis, training new EEG testers, performing EEG experiments | |
| RIKSHOSPITALET - DEPARTMENT OF MEDICAL PHYSICS | 2018 - 19 |
| Research Assistant | |
| • Data collection, management, and processing in an MRI study on sleep deprivation | |
| • Processing and analyzing of data from the video camera | |
| EDUCATION | |
| UNIVERSITY OF OSLO - FACULTY OF CLINICAL MEDICINE | 2019 - 22 |
| PhD, Doctoral Education | |
| • Doctoral education at the Institute of Clinical Medicine at the University of Oslo | |
| • Courses relevant to neurobiology, advanced statistics, and other academic and non-academic skills | |
| LUND UNIVERSITY - FACULTY OF MEDICINE | 2016 - 18 |
| MSc, Biomedicine | |
| • Master's program in Biomedicine at the Faculty of Medicine | |

• Focus on molecular biology and neuroscience

UTRECHT UNIVERSITY - UNIVERSITY COLLEGE ROOSEVELT

BSc, pre-medical track

- Major in the pre-medical science track, minor in philosophy
- Liberal Arts & Science program
- Honors College

SKILLS & LANGUAGES

| ENGLISH (C2) |
|----------------|
| NORWEGIAN (C1) |
| FRENCH (B2) |
| GERMAN (A2) |
| |
| |
| |

AWARDS

| ECIP ORAL FINALIST | 2021 |
|---|------|
| World Congress of Psychiatry Genetics | |
| • Awarded to promising oral presentations from early-career researchers | |
| INTERNATIONAL TRAINING GRANT | 2019 |
| Norwegian Research School in Neuroscience | |
| • Grant awarded to scientists to receive training abroad that'll benefit their research in Norway | |
| SPARBANKEN SKÅNE MASTER PRIZE | 2019 |
| Sparbanksstiftelsen Färs & Frosta, Lund University | |
| • Awarded to the best master theses in the field of neuroscience | |
| CLINCIAL EXPERIENCE | |
| CLINICAL CHEMICAL HEMATOLOGICAL LAB - GELRE APELDOORN | 2016 |
| Phlebotomist | |
| VARIOUS DEPARTMENTS - GELRE APELDOORN | 2016 |
| Assistant nurse | |
| | |

COMMISSIONS

| DNB DATA SCIENCE MEETUP | 2023 - CURRENT |
|---|----------------|
| Committee Member | |
| NRSN ANNUAL CONFERENCE | 2019 - 21 |
| <i>Committee Member</i>Organization of the national conference of the Norwegian Research | |
| School for Neuroscience its members | |
| THE NETHERLANDS RED CROSS STUDENT DESK ZEELAND | 2014 - 15 |
| General Board Member (Fundraising portfolio) | |

PORTFOLIO

I occasionally write blogposts that serve as tutorials or showcases for how I solve certain data science problems

DANIELROELFS.COM

- Includes tutorials on statistics (link, link) and data science (link, link, link)
- Tutorials contain code written in R and Python, website is generated using Hugo and Quarto hosted through GitHub and Netlify
- Featured on the front page of HackerNews

DANIELROELFS.APP

- Collection of apps for various uses, self-hosted from a Raspberry Pi (described here)
- Apps created in Flask and Shiny

BILKOLLEKTIVET TRIP COST CALCULATOR

• Shiny app to estimate the cost of a car rental through Bilkollektivet

PRESENTATIONS & TALKS

• Slides and resources for public talks, workshops, and presentations I've given since 2019

INTRODUCTION TO BASIC STATISTICS IN R

• Online book to help medical researchers get started in R

SELECTED PUBLICATIONS

• D Roelfs, ..., T Kaufmann Genetic overlap between multivariate measures of human functional brain connectivity and psychiatric disorders. Nature

Mental Health. doi: 10.1038/s44220-023-00190-1 preprint: 10.1101/2021.06.15.21258954

- D Roelfs, ..., T Kaufmann Shared genetic architecture between mental health and the brain functional connectome in the UK Biobank . BMC Psychiatry. doi: 10.1186/s12888-023-04905-7 preprint: 10.1101/2022.06.24.22276846
- D Roelfs, ..., T Kaufmann Phenotypically independent profiles relevant to mental health are genetically correlated . Translational Psychiatry. doi: 10.1038/s41398-021-01313-x preprint: 10.1101/2020.03.30.20045591
- I Voldsbekk, ..., D Roelfs, ..., II Maximov Sleep and sleep deprivation differentially alter white matter microstructure: A mixed model design utilising advanced diffusion modelling. NeuroImage. doi: j.neuroimage.2020.117540 preprint: 10.1101/2020.08.24.259432

For an extended list of publications, see the publications list on my website, ORCID or my Google Scholar profile.