DANIEL ROELFS

WORK EXPERIENCE

DNB - GROUP SECURITY - GROUP AML
Data Scientist

- 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
Doctoral Research Fellow

2019 - 22

- 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
Research Assistant

2018 - 19

- Managing EEG data, data preprocessing and analysis, training new EEG testers, performing EEG experiments

RIKSHOSPITALET - DEPARTMENT OF MEDICAL PHYSICS
Research Assistant

2018 - 19

- 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
PhD, Doctoral Education

2019 - 22

- 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
MSc, Biomedicine

2016 - 18

- Master's program in Biomedicine at the Faculty of Medicine
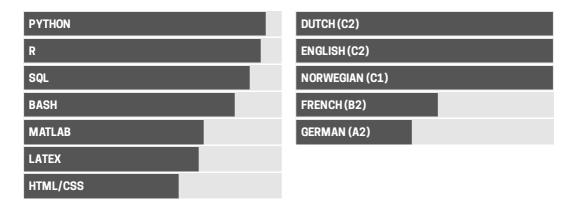- Focus on molecular biology and neuroscience

UTRECHT UNIVERSITY - UNIVERSITY COLLEGE ROOSEVELT 2012 - 15

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

SKILLS & LANGUAGES

PYTHON	DUTCH (C2)
R	ENGLISH (C2)
SQL	NORWEGIAN (C1)
BASH	FRENCH (B2)
MATLAB	GERMAN (A2)
LATEX	
HTML/CSS	

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
Committee Member
- 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.