

# DANIEL ROELFS

Data Scientist working on anti-money laundering for DNB, Norway's largest bank. Previously a biomedical researcher in Computational Psychiatry with a focus on neuroimaging and genetics



## WORK EXPERIENCE

current  
|  
2022



### Data Scientist

Group AML

📍 DNB

- 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
- Application of responsible data science practices in both development and deployment

2022  
|  
2019



### Doctoral Research Fellow

Multimodal Imaging group at NORMENT

📍 University of Oslo

- PhD position on neuroimaging and genetics
- Running a study from conception through writing the final manuscript
- Writing scripts and pipelines in R, Python, and MATLAB

2019  
|  
2018



### Research Assistant

EEG Group at NORMENT

📍 University of Oslo

- Managing EEG data, data preprocessing and analysis, training new EEG testers, performing EEG experiments
- Maintaining and adapting preprocessing pipelines for EEG data

2019  
|  
2018



### Research Assistant

Department of Medical Physics

📍 Rikshospitalet, OUS

- Data collection, management, and processing in an MRI study on sleep deprivation
- Preprocessing and analyzing the imaging data and preparing datasets for collaborators
- Processing and analyzing of data from the video camera



## EDUCATION

2022  
|  
2019



### PhD, Doctoral Education

University of Oslo

📍 Oslo, NO

- 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

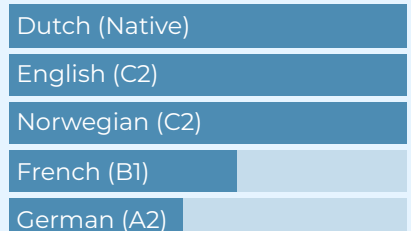
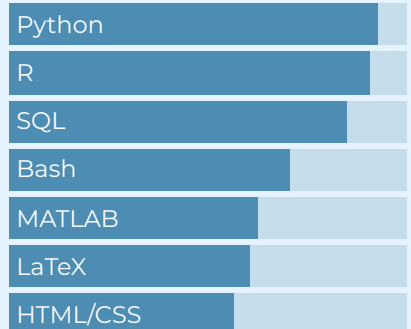


View this CV online with links at [cv.danielroelfs.com](https://cv.danielroelfs.com)

## CONTACT

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## SKILLS & LANGUAGES



2018  
|  
2016

● **MSc, Biomedicine**

Lund University

📍 Lund, SE

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

2015  
|  
2012

● **BSc, Pre-medical track**

University College Roosevelt, Utrecht University

📍 Middelburg, NL

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



## CLINICAL EXPERIENCE

2016

● **Assistant nurse/phlebotomist**

Gelre Hospital Apeldoorn

📍 Apeldoorn, NL



## AWARDS

2021

● **ECIP Oral Finalist**

World Congress of Psychiatry Genetics

- Awarded to promising oral presentations from early-career researchers

2019

● **International Training Grant**

Norwegian Research School in Neuroscience

- Grant awarded to scientists to receive training abroad that'll benefit their research in Norway

2019

● **Sparbanken Skåne Master Prize**

Sparbanksstiftelsen Färs & Frosta, Lund University

- Awarded to the best master theses in the field of neuroscience



## COMMISSIONS

2021  
|  
2019

● **Committee Member**

Norwegian Research School in Neuroscience

- Organization of the national conference for neuroscience PhD candidates

2015  
|  
2014

- **General Board Member (Fundraising portfolio)**  
The Netherlands Red Cross Student Desk Zeeland
  - Coordination with regional and national Red Cross offices
  - Organization of first aid stations at local festivals and events



## PORTFOLIO

present  
|  
2019

- **Personal website/blog**  
[danielroelfs.com](https://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

present  
|  
2019

- **Talks & Presentations**  
[danielroelfs.github.io/slides](https://danielroelfs.github.io/slides)
  - Webpage where I collect all slides and files for talks, workshops, and presentations I've given since the start of my PhD
  - Among others slides for a number of conference presentations ([link](#), [link](#)) and talk on the importance of design in science ([link](#), [link](#))

present  
|  
2020

- **Bilkollektivet Trip Cost Calculator**  
[danielroelfs.shinyapps.io/bilkollektivet](https://danielroelfs.shinyapps.io/bilkollektivet)
  - Interactive web app to quickly calculate and compare the cost of a trip with car-sharing service Bilkollektivet

2021

- **Advent of Code**  
[danielroelfs.github.io/advent-of-code](https://danielroelfs.github.io/advent-of-code)
  - Annual set of coding and programming challenges/puzzles in the form of an Advent calendar

2019

- **Introduction To Basic Statistics in R**  
For internal purposes
  - Gentle introduction to performing statistical analysis and plotting in R
  - Intended for NORMENT employees and other medical researchers



## SELECTED PUBLICATIONS

2023

- **Shared genetic architecture between mental health and the brain functional connectome in the UK Biobank**  
*BMC Psychiatry*

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

Full list of articles on which I am a (co-)author is available on my ORCID or Google Scholar profile

- 2022 ● **Genetic overlap between multivariate measures of human functional brain connectivity and psychiatric disorders**  
*medRxiv*
- 2021 ● **Phenotypically independent profiles relevant to mental health are genetically correlated**  
*Translational Psychiatry*