

# 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  
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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  
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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

2018  
|  
2017

### Erasmus Traineeship

EEG Group at NORMENT

📍 University of Oslo

- Planning and running EEG experiments on participants
- Processing and analyzing EEG data using MATLAB



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

## CONTACT

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✉ [daniel@roelfs.net](mailto:daniel@roelfs.net)

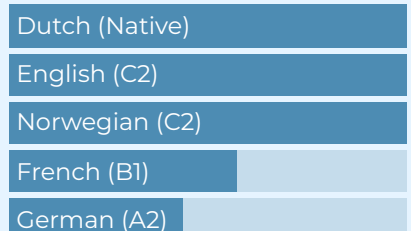
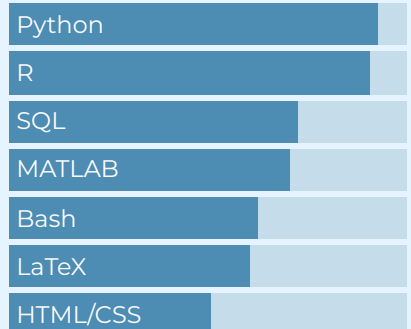
in [danielroelfs](https://www.linkedin.com/in/danielroelfs)

🐦 [@dthroelfs](https://twitter.com/dthroelfs)

🔊 [danielroelfs](https://www.youtube.com/channel/UCdanielroelfs)

📞 0000-0002-1083-002X

## SKILLS & LANGUAGES



2016  
|  
2015



### Research Intern

Brain Institute

📍 University Medical Centre Utrecht, NL

- Identifying risk factors associated with poor prognosis in children with CD or ODD



## 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

2018  
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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

2014



### Epidemiology (summer course)

University College Roosevelt, Utrecht University

📍 Middelburg, NL

- Summer course in theory and methods behind epidemiology

2013



### French Language & Literature (summer course)

Université de Paris I: Panthéon-Sorbonne

📍 Paris, FR

- Summer course in French language and literature



## CLINICAL EXPERIENCE

2016



### Assistant nurse/phlebotomist

Gelre Hospital Apeldoorn

📍 Apeldoorn, NL

The PhD program at the University of Oslo has a distinct research component and educational component. Both need to be fulfilled to qualify for the PhD defense.



## 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  
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2020 • **Committee Member**  
NORMENT Early Career Researchers Meeting
  - Organising the conference for early-career researchers at NORMENT
  - Feedback with NORMENT leadership, the venue, and participants
- 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 visualization ([link](#), [link](#))
  - Tutorials contain code written in R and Python, website is generated using Hugo and Rmarkdown hosted through GitHub and Netlify

I only listed instances where I was invited for a position on a committee or an organization

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

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

2020

## ● Virtual Open Science Escape Room

[norment.github.io/ecrm20\\_escaperoom](https://norment.github.io/ecrm20_escaperoom)

- Developed for scientists to learn about open science in a social setting

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

2022

### ● Shared genetic architecture between mental health and the brain functional connectome in the UK Biobank

*medRxiv*

- First author
- Co-authored with a.o. Oleksandr Frei, Dennis van der Meer, Ole Andreassen, Lars Westlye, and supervised by Tobias Kaufmann

2022

### ● Genetic overlap between multivariate measures of human functional brain connectivity and psychiatric disorders

*medRxiv*

- First author
- Co-authored with a.o. Oleksandr Frei, Dennis van der Meer, Ole Andreassen, Lars Westlye, and supervised by Tobias Kaufmann

2021

### ● The genetic architecture of human cortical folding

*Science Advances*

- Co-author, first author is Dennis van der Meer

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

2021

● **Phenotypically independent profiles relevant to mental health are genetically correlated**

*Translational Psychiatry*

- First author
- Co-authored with Dag Alnæs, Oleksandr Frei, Dennis van der Meer, Olav Smeland, Ole Andreassen, Lars Westlye, and supervised by Tobias Kaufmann