DANIEL ROELFS

Biomedical researcher in Computational Psychiatry at the Norwegian Centre for Mental Disorders Research (NORMENT) with a focus on neuroimaging and genetics

⚗ WORK EXPERIENCE

present | 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, managment, 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

2016 | 2015

Research Intern
Brain Institute 📍 University Medical Centre Utrecht, NL

· Idenifying risk factors associated with poor prognosis in children with CD or ODD

2015 | 2014

Undergraduate Research Intern
Emergis, Institute for Psychiatric and Mental Health Care 📍 Goes, NL

· Identifying risk factors associated with physical restraint in acute psychiatric care

View this CV online with links at *danielroelfs.github.io/cv/*

CONTACT

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 danielroelfs
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 0000-0002-1083-002X
🌐 danielroelfs.com

SKILLS & LANGUAGES

R
Python
MATLAB
Bash
LaTeX
HTML/CSS
SQL

Dutch (Native)
English (C2)
Norwegian (B2/C1)
French (B1)
German (A2)
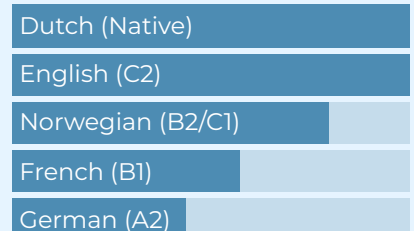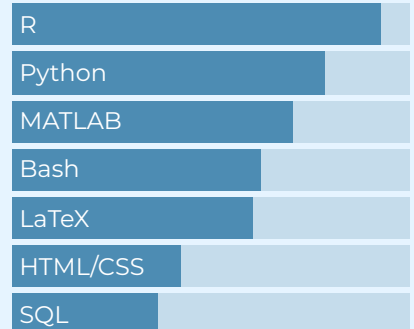
2014 **Undergraduate Research Intern**
Erasmus Cancer Institute Rotterdam 📍 Rotterdam, NL

· Status research into comorbidities associated with different cancer therapies

🎓 EDUCATION

present
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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
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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 | 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

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

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

· 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 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

- 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

- Interactive web app to quickly calculate and compare the cost of a trip with car-sharing service Bilkollektivet

2020

Virtual Open Science Escape Room

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

2019

`{normentR}` R package

github.com/norment/normentR

- R package for internal use at NORMENT
- Contains function to simulate data for debugging and testing analysis and data visualization pipelines

📖 SELECTED PUBLICATIONS

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