

# DANIEL ROELFS

Biomedical researcher with a particular interest in the intersection between neuroimaging and genetics in the domain of neurobiology and psychiatry.



## RESEARCH EXPERIENCE

present  
|  
2019

### Doctoral Research Fellow

Multimodal Imaging group at NORMENT

📍 University of Oslo

- PhD position in imaging and genetics in schizophrenia
- Utilizing large imaging databases such as the UK Biobank and the TOP psychosis database from NORMENT.

2019  
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2018

### Research Assistant

EEG Group at NORMENT

📍 University of Oslo

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

2019  
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2018

### Research Assistant

Department of Medical Physics

📍 Rikshospitalet, Oslo University Hospital

- Data collection and managing in an MRI study on sleep deprivation
- Analysis of the fMRI data and the output from the camera

2018  
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2017

### Erasmus Traineeship

EEG Group at NORMENT

📍 University of Oslo

- Investigating brain plasticity through EEG paradigm
- Planning and running EEG experiments on both healthy individual and patients

2016  
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2015

### Research Intern

Brain Institute

📍 University Medical Centre Utrecht, NL

- Identifying factors associated with risk outcome in children with CD and ODD

2015  
|  
2014

### Undergraduate Research Intern

Emergis, Psychiatric Institute for 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/](https://danielroelfs.github.io/cv/)

## CONTACT

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

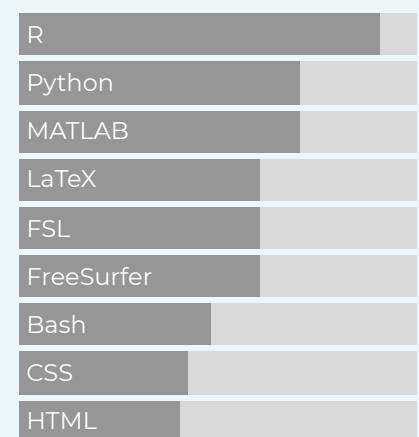
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## SKILLS




Last updated on 2021-12-03.


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 Candidate, Neuroimaging & genetics**  
University of Oslo  Oslo, Norway


- Doctoral education at the Institute of Clinical Medicine at the University of Oslo
- Courses relevant to neurobiology, advanced statistics, and other academic skills

2018  
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2016 • **MSc, Biomedicine**  
Lund University  Lund, Sweden


- 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, France

- 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



## COMMISSIONS

- 2021 • **Committee Member**  
NORMENT Early Career Researchers Meeting
- 2021 | 2020 • **Committee Member**  
Norwegian Research School in Neuroscience
- 2015 | 2014 • **General Board Member**  
The Netherlands Red Cross Student Desk Zeeland



## SELECTED WRITINGS

- 2020 • **Running an ICA on Questionnaires**  
[danielroelfs.com](https://danielroelfs.com)
- 2020 • **How I make QQ Plots Using ggplot**  
[danielroelfs.com](https://danielroelfs.com)
- 2019 • **How I Create Manhattan Plots Using ggplot**  
[danielroelfs.com](https://danielroelfs.com)
- 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

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



## SELECTED PUBLICATIONS

- 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

2021 • **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

2020 • **Experience-dependent modulation of the visual evoked potential: Testing effect sizes, retention over time, and associations with age in 415 healthy individuals**

[NeuroImage](#)

- Co-author
- First author: Mathias Valstad

2020 • **Sleep and sleep deprivation differentially alter white matter microstructure: A mixed model design utilising advanced diffusion modelling**

[NeuroImage](#)

- Co-author
- First author: Irene Voldsbekk