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
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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 plsaticity 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

· Idenifying factors associated with risk outcome in children with CD and ODD

2015
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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/

CONTACT

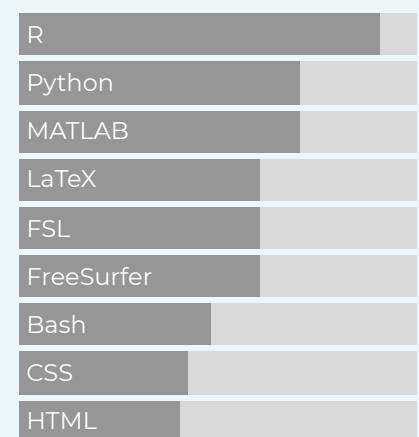- ✉ dtroelfs@medisin.uio.no
- 🐦 @dthroelfs
- ⚫ danielroelfs
- 💼 danielroelfs
- ⊙ 0000-0002-1083-002X
- 🌐 danielroelfs.com

SKILLS

R	
Python	
MATLAB	
LaTeX	
FSL	
FreeSurfer	
Bash	
CSS	
HTML	

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
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2020 **Committee Member**
NORMENT Early Career Researchers Meeting

2021
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2019 **Committee Member**
Norwegian Research School in Neuroscience

2015
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2014 **General Board Member**
The Netherlands Red Cross Student Desk Zeeland

SELECTED WRITINGS

2020 **Running an ICA on Questionnaires**
danielroelfs.com

2020 **How I make QQ Plots Using ggplot**
danielroelfs.com

2019 **How I Create Manhattan Plots Using ggplot**
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

SELECTED PUBLICATIONS

2021 **The genetic architecture of human cortical folding**
bioRxiv
· Preprint
· Co-author
· First author: Dennis van der Meer

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

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

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