

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 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
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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
- 2014
- Undergraduate Research Intern**
Erasmus Cancer Institute Rotterdam 📍 Rotterdam, NL
 - Status research into comorbidities associated with different cancer therapies

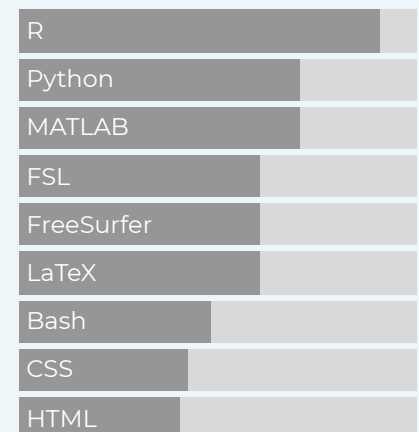


View this CV online with links at danielroelfs.github.io/cv/

CONTACT

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SKILLS



Last updated on 2021-01-22.



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



COMMISSIONS

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

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



SELECTED WRITINGS

- 2020 • **Running an ICA on Questionnaires¹**
danielroelfs.com
- 2019 • **How I Create Manhattan Plots Using ggplot²**
danielroelfs.com
- 2019 • **Analyzing Bach³**
danielroelfs.com
- 2019 • **Introduction To Basic Statistics in R⁴**
For internal purposes
 - Gentle introduction to performing statistical analysis and plotting in R
 - Intended for NORMENT employees and other medical researchers

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



SELECTED PUBLICATIONS

- 2021 • **The genetic architecture of human cortical folding**
bioRxiv
 - Preprint
 - Co-author
 - First author: Dennis van der Meer
- 2020 • **Phenotypically independent mental health symptom profiles are genetically related**
medRxiv
 - Preprint
 - 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