



OLE SCHWARTZ

NEUROSCIENTIST AND DATA ANALYST

PROFILE

Neuroscientist specialized in in vivo two-photon imaging. I have strong analytical skills and expertise in all steps of data analysis. Married and a father of three, aged 5 to 9.

RESEARCH EXPERIENCE

Yonahara Lab, DANDRITE

2021-2024

Research Assistant

- *Analysis of large scale two-photon data.*
- *Teacher in use and maintenance of two-photon equipment and planning of two-photon experiments.*

Yonahara Lab, DANDRITE

2017-2021

PhD student

- *Functional in vivo two-photon imaging. MATLAB and Python programming for image analysis and image presentation. Microsurgical preparation of mice for in vivo imaging. Teacher in Medical Biochemistry Circuits. Biweekly Journal Club.*

Yonahara lab, DANDRITE

2016-2017

Research Assistant

- *Immunohistochemical stainings of mice brain slices. Iontoporation of plasmids. Image analysis using Imaris. Production of Rabies Virus.*

Institute for Biophysics, Chinese Academy of Science

2014-2015

Master's Thesis

- *Research into the oscillatory content of divided visual attention. Planned and conducted EEG experiments. Programmed stimuli and conducted data analysis via MATLAB. Recruitment and day-to-day contact with subjects.*

MIND center Biochemical Institute, Aarhus University

2012-2013

Research Year, Lab of Simon Glerup

- *Independent research project on neurotrophic growth factors and their potential use in the treatment of Parkinson's Disease. Responsible for, among other things, animal experiments, harvesting, and establishing primary cell cultures, immunohistochemical staining, image processing and analysis and data processing.*

Danish Neuroscience Center, AUH

2009-2011

Research Year, Lab of Simon Glerup

- *Assistant in medicinal and neuropsychological projects. Programming in E-prime, recruitment of subjects, execution of MRI- and TMS-based experiments, electrophysiological experiments on hemiparetic patients.*

CONTACT

☎ 22 43 96 96

✉ ole.schwartz@gmail.com

📍 Ruholmsvej 4,
8382 Hinnerup

EDUCATION

2023

PHD IN HEALTH SCIENCE

- Aarhus University

2015

MASTER OF NEUROSCIENCE
AND NEUROIMAGING

- Aarhus University and
Chinese Academy of Science

2012

BACHELOR OF MEDICINE

- Aarhus University

SKILLS

ANALYTICAL SKILLS

Image preprocessing:

- MATLAB, Python, ImageJ

Data analysis:

- MATLAB, Python, ImageJ

Statistics and programming:

- MATLAB, Python, Stata, Imaris

Image presentation:

- Inkscape, ImageJ

Clustering:

- MATLAB

Other:

- Microsoft Office

LAB SKILLS

- Intracranial viral injections
- Stereotaxic surgery
- Rabies virus production
- Two photon imaging
- IHC staining

SCIENTIFIC PUBLICATIONS

- 2024 Independent cellular responses to luminance and motion in the mouse superior colliculus
Ole Søndergaard Schwartz, Akihiro Matsumoto, Keisuke Yonehara
In review
- 2019 Embolization of the Middle Meningeal Artery in Patients with Chronic Subdural Haematoma – a Meta-Analysis
Mette Haldrup, Baskaran Ketharanathan, Birgit Debrabant, **Ole Søndergaard Schwartz**, Ronni Mikkelsen, Kåre Fugleholm, Frantz Rom Poulsen, Thorbjørn Søren Rønn Jensen, Lærke Velia Thaarup, Bo Bergholt
- 2019 Early Decompressive Surgery in Patients with Traumatic Spinal Cord Injury Improves Neurological Outcome
Mette Haldrup, **Ole Søndergaard Schwartz**, Helge Kasch, Mikkel Mylius Rasmussen
- 2013 Loss of BDNF or its receptors in three mouse models has unpredictable consequences for anxiety and fear acquisition
Ditte Olsen, Mathias Kaas, **Ole Schwartz Jensen**, Anders Nykjaer, Simon Glerup

COURSES

- 2024 Development, application, and impact of NeuroTools of tomorrow
- 2020 Mastering programming with MATLAB
- 2020 Cluster Analysis in Data Mining
- 2020 Pattern Discovery in Data Mining
- 2020 Writing in the Sciences
- 2018 Introduction to Machine Learning and Data Analysis
- 2017 Scientific Computing Using Python
- 2017 Basic Biostatistics I & II, Aarhus University
- 2012 Imaris, Zurich, Switzerland; Interactive Microscopy Image Processing and Analysis
- 2012 Stereology; Tissue- and Neurostatistics
- 2012 Laboratory and animal experiments, University of Aarhus; FELASA category B license

TEACHING EXPERIENCE

- 2023-2024 How to conduct two-photon experiments to lab members
- 2018-2019 Teacher in Medical biochemistry, Aarhus University
- 2018 PhD course on Optical Imaging Techniques
- 2017 Mentor for master's student
- 2004-2005 Private and high-school tutor in math and physics

PRESENTATIONS

- 2015-2024 Presentations at DANDRITE Internal meetings and group meetings
- 2017 Presentation on two photon imaging at the Nordic EMBL Partnership Meeting, Finland
- 2012 Presentation of a poster on the influence of neurotrophic factors on learning and memory in mice at the Society for Neuroscience, New Orleans