



Nikoloz Sirmipilatze

PHD STUDENT, GERMAN PRIMATE CENTER

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Education

German Primate Center, Functional Imaging Lab

PHD IN NEUROIMAGING

Göttingen, Germany

2017-present

IMPRS Neurosciences, Georg-August University of Göttingen

MSC IN NEUROSCIENCE (GRADE 1.1)

Göttingen, Germany

2015-2017

Aristotle University of Thessaloniki

MEDICAL DEGREE (GRADE 9.43/10)

Thessaloniki, Greece

2009-2015

Research Projects

fMRI mapping of anesthesia-induced burst suppression in multiple mammalian species

PHD PROJECT - FUNCTIONAL IMAGING LAB

German Primate Center

May 2017-present

The temporal stability of fMRI measurements in medetomidine-anesthetized rats

MSC PROJECT - FUNCTIONAL IMAGING LAB

German Primate Center

Oct 2016-Apr 2017

Extracurricular courses

Effective Scientific Communications Workshop

3-DAY WORKSHOP

GGNB graduate school

Mar 2018

Introduction to Data Science

1-WEEK COURSE

GGNB graduate school

Feb 2018

Neural networks and Deep Learning

ONLINE COURSE

www.coursera.org

Feb-Mar 2018

Regression Modelling

1-WEEK COURSE

German Primate Center

May 2017

Skills

TECHNICAL SKILLS:

- Python: numpy, pandas, matplotlib, jupyter, nilearn, nipy
- Bash, R, git, \LaTeX
- Neuroimaging software: FSL, ANTS, AFNI, BrainVoyager, Freesurfer

LANGUAGES

- Greek (native)
- Georgian (native)
- English (fluent)
- German (B2)
- Russian (limited working proficiency)

Teaching and Supervision

Tutorials and method courses: Introduction to MRI/fMRI

IMPRS NEUROSCIENCES MSC PROGRAM

University of Göttingen

2017-2019 (1 week/year)

Resting state connectivity and negative BOLD responses

MSC THESIS OF DMYTRO NESTERENKO

University of Göttingen

Oct 2018-Mar 2019

Changes in resting state functional connectivity after the neurofeedback training of anterior midcingulate cortex (aMCC)

LAB ROTATION PROJECT OF ANNA LIASHENKO

University of Göttingen

Jan-Feb 2019

Community Teaching Assistant for Medical Neuroscience

ONLINE COURSE

www.coursera.org

Jan-Mar 2013

Teaching Assistant for Neuroanatomy

LABORATORY OF DESCRIPTIVE ANATOMY

Aristotle University of Thessaloniki

Feb-May 2011

Publications

1. **Nikoloz Sirmipilatz**, J Baudewig, and S Boretius (2019). Temporal stability of fMRI in medetomidine-anesthetized rats. *Scientific Reports* **9**(16673).
2. Milham, M et al. (2020). Accelerating the Evolution of Nonhuman Primate Neuroimaging. *Neuron* **105**(4), 600–603.
3. Hafner, G, J Guy, M Witte, O Truschow, A Rueppel, **Nikoloz Sirmipilatz**, R Dadarwal, S Boretius, and JF Staiger (2020). Circuits in the absence of cortical layers: increased callosal connectivity in reeler mice revealed by brain-wide input mapping of VIP neurons in barrel cortex. *bioRxiv*.

Conference Contributions (selected)

1. **N Sirmipilatz**, J Baudewig, J Mylius, D Golkowski, A Ranft, R Ilg, and S Boretius (2019). Using BOLD fMRI to map anesthesia-induced burst suppression in humans and non-human primates. In: *27th Annual Meeting of the International Society for Magnetic Resonance in Medicine*. Talk.
2. **N Sirmipilatz**, J Baudewig, and S Boretius (2019). Are fMRI measurements in medetomidine-anesthetized rats temporally stable? In: *27th Annual Meeting of the International Society for Magnetic Resonance in Medicine*. Digital Poster.
3. **N Sirmipilatz**, J Baudewig, K Kötz, and S Boretius (2018). Optimizing medetomidine anesthesia for fMRI in rats. In: *11th Forum of Neuroscience, Federation of European Neuroscience Societies*. Poster.
4. **N Sirmipilatz**, J Baudewig, K Kötz, and S Boretius (2017). The temporal stability of BOLD fMRI measurements in medetomidine anesthetized rats. In: *34th Annual Meeting of the European Society for Magnetic Resonance in Medicine and Biology*. Poster.

Scholarships and Awards

27th Annual Meeting of the International Society for Magnetic Resonance in Medicine

MAGNA CUM LAUDE MERIT AWARD

May 2019

27th Annual Meeting of the International Society for Magnetic Resonance in Medicine

EDUCATIONAL STIPEND

May 2019

34th Annual Meeting of the European Society for Magnetic Resonance in Medicine and Biology

STUDENT SUPPORT PROGRAM

Oct 2017

German Academic Exchange Service (DAAD)

MSC SCHOLARSHIP

Oct 2015-Apr 2017

State Scholarships Foundation of Greece (IKY)

UNDERGRADUATE DISTINCTION

2009-2011

Interests and Hobbies

- Open and reproducible science
- Graphic design
- Dancing to swing music

- Playing the saxophone