M.Sc. Internships (2, funded) in Large-Scale Computational Neuroscience

Deciphering the brain ultimately rests on knowing a large fraction of its activity during behavior. Recent advances in optical imaging have created this possibility for particular organisms, e.g. the ~100000 neurons of the zebrafish brain. In the present Master Internships (2 offered) you will be contributing to this research by analyzing large-scale recordings of neural activity (nearly the whole brain, ~90000 neurons). You will first be acquainted with state-of-the-art tools and algorithms for investigating and modeling the activity, and later - in collaboration with the AI department at Donders/RU - embark on a specific project to understand an aspect of the population activity using advanced machine learning and statistical analysis. The internship is performed in collaboration with world-class experimental labs, where you will spend part of your internship (funded from our side, see below).

Internship Details:
- Overall duration: 8-12 months
- Research in Nijmegen for 4-6 months in the Computational Neuroscience Lab ([www.englitz.de/Lab](http://www.englitz.de/Lab))
- Included stay abroad in experimental lab (4-6 months), in Paris (France) or Trondheim (Norway)
- Stay abroad will be funded through the iNavigate network (€2100/month).
- Authorship in a high-level publication (as previous M.Sc. interns, e.g. see [here](http://www.englitz.de/Lab)), depending on results/contribution.

Candidate requirements:
- High-level of programming experience (Python/Matlab)
- Serious interest in neural computation
- Educational background in physics, engineering, artificial intelligence or biology.

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Deadline: Applications will be accepted until the two internships are filled.