Curriculum Vitae for Simen Tennøe

Personal information

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Born:	19.09.87	Nationality:	Norwegian

Summary

I am a computational scientist with a broad education in computational physics and computational neuroscience. I have much experience with learning new disciplines and enjoy using the computer to solve complex problems, create models and numerical simulations and perform data analysis.

Technical skills

Frameworks	MPI
Languages	Python, C++, also used: Matlab, Fortran, C
Tools	Git, Docker, LaTeX, DocOnce

Education

2014 – 2019 **Ph.D.** Working with computational neuroscience at the University of Oslo. My work is focused on quantifying uncertainties in computational models of neurons and neural networks. Towards this end I have created a Python toolbox, found on my Github, tailored for performing these calculations in neuroscience. My Ph.D. work also includes learning new subjects, tools and techniques as necessary, as well as presenting my work in a wide variety of settings.

2011 – 2013 **Master of Astronomy.** I specialized in numerical astrophysics and cosmology. I developed software "from scratch" in C++ that compares the results from large-scale N-body simulations of the universe with observational data. This problem is computationally intensive and the work included implementing advanced clustering algorithms, parallelization using MPI, and large-scale data analysis.

2007 – 2010	**Bachelor of Physics, Astronomy and Meteorology** Specialization in physics.

Professional experience

2014 – 2019	**Ph.D.** See education section above.
2014	**Software engineer at Schlumberger.** I worked on developing software (Petrel) in C++ for modeling in oil and gas reservoirs.
2013, 2009, 2008	**Teaching assistant at the University of Oslo** in a Python programming course - Introduction to programming with scientific applications. The work of a teaching assistant is to manage a class of students in their work with weekly compulsory programming projects. Additionally I corrected about 100 exercises from students every week.
2012, 2011	**Summer job at the Institute of Theoretical Astrophysics at the University of Oslo**. The first year I performed data reduction on a set of astronomical images and created software to automate the process (2011). The second year I implemented support for parallelization, using MPI, for what turned into the software I developed during my master (2012).

Languages

English	Fluent
German	Basic
Norwegian	Native