

Amalie Stokholm

Education

- 2017–2021 **PhD**, Stellar Astrophysics Centre (SAC), Dept. of Physics and Astronomy, Aarhus University.
- 2016–2017 **MSc Astronomy**, Dept. of Physics and Astronomy, Aarhus University.
- 2013–2016 **BSc Physics**, Dept. of Physics and Astronomy, Aarhus University.
Bachelor's project: *Interferometric and Asteroseismic Analysis of the Subgiant HD 181096*
written under supervision of Víctor Silve Aguirre & Tim White.
- 2010–2013 **High school (HTX)**, Teknisk Gymnasium Viby, Aarhus.
Mathematics/Physics/History of Ideas.

Employment

- 2016–2017 **Teacher**, Egaa Gymnasium, Aarhus.
High School Teacher in Astronomy C
- 2016–2017 **Coordinator of Astronomy Internships for ninth graders**, Dept. of Physics and Astronomy, Aarhus University.
Organiser and teacher of the semi-annual week-long introduction to studying and working in astronomy.
- 2015 **Interim Teacher**, Teknisk Gymnasium Viby, Aarhus.
Interim teacher in Physics. Week 8 2015 through week 17 2015
- 2013 **Campaign Coordinator**, Socialistisk Folkeparti (SF), Aarhus.
Coordinator for the local elections and regional council elections for The Socialist People's Party in Aarhus.
August 2013 through December 2013
- 2012–2013 **Homework tutor**, Teknisk Gymnasium Viby, Aarhus.
Organisor and helper in the homework café. August 2012 through June 2013

Related Experience

- 2016– **BASTA**, BAYesian STellar Algorithm (BASTA).
User of and contributor to BASTA, which is a software written in Python 3.5 performing statistical determination of stellar parameters.
- 2016 **CHARA Array**, The Center for High Angular Resolution Astronomy (CHARA) Array.
Research trip to the CHARA Array for 10 nights of observations.
Experience with the graphical interface for the Precision Astronomical Visual Observations (PAVO) beam combiner and the PAVO data analysis pipeline.
- 2016 **EuroPython 2016**.
Attendee at the EuroPython 2016 conference in Bilbao, Spain.
- 2015 **Introduction to Complex Systems**, Faculty of Science, Utrecht University.
Summer School in August about emergence, robustness, and predicability of patterns.
Sponsored by Professor Jens Lindhards Forskningslegat.

Challenge track

The IFA Challenge Track offers extra challenges to physics students during their bachelor's programme. All students can participate during their first year, while the challenges during the second and third year are reserved for a selected group of students.

- 2015 **Quantum mechanics**, Subatomic group, Dept. of Physics and Astronomy, Aarhus University.
Project on few-body analysis of particles in quantum mechanics.
Supervisors: Aksel Stenholm & Nikolaj T. Zinner.
January through June
- 2014 **Materials science**, Semiconductor Group, iNANO Center, Aarhus University.
Project on Indium Tin Oxid (ITO) and optimization of ITO for use in solar cells.
Supervisors: Ivan Samatov, Arne Nylandsted Larsen, Peter Balling, Brian Julsgaard & Sanjay Ram
September through December
- 2013–2014 **Four introductory projects**, Dept. of Physics and Astronomy, Aarhus University.
- Module 1 on Classical Mechanics**, The movement of a yo-yo.
Oral presentation and a report. Passed in October 2013.
- Module 4 on Experimental Physics**, Viscosity of fluids and Gyroscopic precession.
Two reports based on the experiments. Passed in January 2014.
- Module 5 on Numerical Simulations**, Asteroseismology.
Project and oral presentation based on analysis of asteroseismic data from the *Kepler* Mission.
Supervisor: Vincent van Eylen. Passed in April 2014.
- Module 6 on Quantum Mechanics**, Entanglement and the Wave-Particle Duality.
Journal clubs and a report. Passed in July 2014.

Programming languages

Proficient: Python, MATLAB, Wordpress, Jekyll
Familiar with: C, IDL, LabVIEW

Extracurricular activities

- 2017 – 2019 **Auditor**, TÅGEKAMMERET, Aarhus University.
Elected for financial years 2017/2018 and 2018/2019.
- 2015–2016 **Treasurer (KAS\$)**, TÅGEKAMMERET, Aarhus University.
Appointed for the board year 2015/16 from September 2015 to September 2016.
- 2014 – 2016 **Auditor**, Mat/Fys-Tutorgruppen, Aarhus University.
Elected for the fiscal years 2014/2015 and 2015/2016.
- 2015 **Tutor**, Mat/Fys-Tutorgruppen, Aarhus University.
- 2014 **Board member**, Socialistisk Folkeparti Ungdom Aarhus (SFU Aarhus).
Elected from May 2014 to December 2014
- 2014 **Treasurer**, Socialistisk Folkeparti Ungdom Aarhus (SFU Aarhus).
Elected from December 2013 to May 2014
- 2013–2014 **Party Committee (FU)**, TÅGEKAMMERET, Aarhus University.
Appointed for the board year 2013/14 from September 2013 to September 2014.
- 2013 **Organizational Vice Chairman**, Socialistisk Folkeparti Ungdom Aarhus (SFU Aarhus).
Elected from May 2013 to December 2013
- 2012–2013 **Board member**, Socialistisk Folkeparti Ungdom Aarhus (SFU Aarhus).
Elected from May 2012 to May 2013