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Amalie Stokholm

Galactic Archaeology, asteroseismology, stellar modelling

Experience

Postdoctoral Researcher, *Asterochronometry*, **2021–2023**
Dipartimento di Fisica e Astronomia, Università di Bologna, Italy.

Education

PhD, *Stellar Astrophysics Centre (SAC)*, **2017–2021**
Department of Physics & Astronomy, Aarhus University, Denmark.
PhD project written under supervision of Dr. Víctor Aguirre Børsen-Koch

MSc Astronomy, **2016–2019**
Department of Physics & Astronomy, Aarhus University, Denmark.

BSc Physics, **2013–2016**
Department of Physics & Astronomy, Aarhus University, Denmark.

The Higher Technical Examination Programme (HTX), **2010–2013**
Teknisk Gymnasium Viby, Aarhus Tech, Denmark.
Specialization: Mathematics / Physics / History of Ideas / Chemistry

Publications

An up-to-date list of publications can be found at my ADS library
ui.adsabs.harvard.edu/public-libraries/VoJI-I0hQmeylc72urzhUw.

Teaching experience

PhD student, *Stellar Astrophysics Centre (SAC)*, **2017–2021**
Department of Physics & Astronomy, Aarhus University, Denmark.
Alongside my PhD research projects, I followed courses at the Master/PhD level and worked as a teaching assistant at the institute in the following courses:

- Relativity & Astrophysics, autumn 2017, BSc course (10 ECTS), 1 unit
- Galaxies & Cosmology, spring 2018, BSc course (10 ECTS), 1 unit
- Relativity & Astrophysics, autumn 2018, BSc course (10 ECTS), 1 unit + administrative work
- Relativity & Astrophysics, autumn 2019, BSc course (10 ECTS), 2 units

Teacher, **2016–2017**
Egaa Gymnasium, Denmark.
Upper-secondary school teacher in the course *Astronomy C*

Coordinator of *Astronomy Internships* for ninth graders, **2016–2017**
Department of Physics & Astronomy, Aarhus University, Denmark.
Organizer and teacher of a semi-annual week-long internship on how to study and work in the fields of astronomy and astrophysics aimed at students in the last years of primary school

Interim Teacher, **2015**
Teknisk Gymnasium Viby, Aarhus Tech, Denmark.
Interim teacher in Physics. Week 8 2015 through week 17 2015

Homework tutor, **2012–2013**
Teknisk Gymnasium Viby, Aarhus Tech, Denmark.
Organizer of and tutor in the homework café. August 2012 through June 2013

Committees & collaborations

PLATO Science Consortium & PLATO Science Management, **2019—**
Member of PSM Work Package 125 (Determination of Stellar Parameters).

Equity & Equality Committee, **2017–2021**
Department of Physics & Astronomy, Aarhus University.
Member

TESS Asteroseismic Science Consortium (TASC). **2017—**
Member

Instument Center for Danish Astrophysics (IDA). **2017–2018**
Member of the board, Chair of Working Group 7, and member of 4 additional Working Groups

Kepler Asteroseismic Science Consortium (KASC). **2017—**
Member

Programming languages

Proficient: Python, Bash, MATLAB, ADQL, SQL, Wordpress, Jekyll
Familar with: C, IDL, LabVIEW

Related Experience

Guest researcher, **2020**
Max-Planck-Institut für Astronomie (MPIA), Germany.
Research stay at MPIA working with Dr. Coryn Bailer-Jones and his group.
Stay got interrupted due to the COVID-19 crisis.

BASTA, BAyesian STellar Algorithm. **2016–**
Core team member of the development team behind BASTA, a grid-based stellar modelling approch written in Python 3 for inference of stellar parameters.

Space Astrometry for Astrophysics, **2019**
International School of Space Science, Italy.
Summer school about understanding the scientific construction of the *Gaia* catalogue and its current and future scientific potential in synergy with the large ground-based spectro-photometric surveys

Astrostatistics and Astroinformatics XIV, **2018**
Pennsylvania State University, USA.
Summer school about statistics and scientific computing within the field of astrophysics

CHARA Array, The Center for High Angular Resolution Astronomy Array. **2016**
Mount Wilson, USA.
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.

EuroPython 2016, **2016**
Bilbao, Spain.
Attendee at the EuroPython conference

Introduction to Complex Systems, **2015**
Faculty of Science, Utrecht University, the Netherlands.
Summer School in August about emergence, robustness, and predicability of patterns.
Funded by a Professor Jens Lindhards Forskningslegat.