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# Amalie Stokholm

*Galactic Archaeology, asteroseismology, stellar modelling*

## Education

- PhD, Stellar Astrophysics Centre (SAC),** **2017–2021**  
Department of Physics & Astronomy, Aarhus University, Denmark.
- MSc Astronomy,** **2016–2019**  
Department of Physics & Astronomy, Aarhus University, Denmark.
- BSc Physics,** **2013–2016**  
Department of Physics & Astronomy, Aarhus University, Denmark.  
Bachelor's project: *Interferometric and Asteroseismic Analysis of the Subgiant HD 181096*  
written under supervision of Dr. Víctor Silve Aguirre & Dr. Tim White.
- 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](#).

## 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.
- BASTA, Bayesian STellar Algorithm.** **2016–**  
Core team member of the development team behind BASTA, a grid-based stellar modelling approach 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.

## Teaching experience

<b>PhD student, <i>Stellar Astrophysics Centre (SAC)</i>,</b>	<b>2017—</b>
Department of Physics & Astronomy, Aarhus University, Denmark. Alongside my PhD research projects, I followed courses at the Master/PhD level, and I 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	
<b>Teacher,</b>	<b>2016-2017</b>
Egaa Gymnasium, Denmark. Teacher in the course <i>Astronomy C</i>	
<b>Coordinator of <i>Astronomy Internships</i> for ninth graders,</b>	<b>2016-2017</b>
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	
<b>Interim Teacher,</b>	<b>2015</b>
Teknisk Gymnasium Viby, Aarhus Tech, Denmark. Interim teacher in Physics. Week 8 2015 through week 17 2015	
<b>Homework tutor,</b>	<b>2012-2013</b>
Teknisk Gymnasium Viby, Aarhus Tech, Denmark. Organizer of and tutor in the homework café. August 2012 through June 2013	

## Programming languages

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

## Committees & collaborations

<b>PLATO Science Consortium &amp; PLATO Science Management,</b>	<b>2019—</b>
Member of PSM Work Package 125 (Determination of Stellar Parameters).	
<b>Equity Committee,</b>	<b>2017-2020</b>
Department of Physics & Astronomy, Aarhus University. Member	
<b>TESS Asteroseismic Science Consortium (TASC).</b>	<b>2017—</b>
Member	
<b>Instrument Center for Danish Astrophysics (IDA).</b>	<b>2017-2018</b>
Member of the board, Chair of Working Group 7, and member of 4 additional Working Groups	
<b>Kepler Asteroseismic Science Consortium (KASC).</b>	<b>2017—</b>
Member	

Extracurricular  
activities

<b>Auditor,</b> TÅGEKAMMERET, Aarhus University. Elected for fiscal years 2017/2018 and 2018/2019 and as alternate auditor for 2019/2020	<b>2017 – 2020</b>
<b>Treasurer (KA\$\$),</b> TÅGEKAMMERET, Aarhus University. Appointed for the board year 2015/16 from September 2015 to September 2016.	<b>2015–2016</b>
<b>Auditor,</b> Mat/Fys-Tutorgruppen, Aarhus University. Elected for the fiscal years 2014/2015 and 2015/2016.	<b>2014 – 2016</b>
<b>Tutor,</b> Mat/Fys-Tutorgruppen, Aarhus University.	<b>2015</b>
<b>Board member,</b> Socialistisk Folkeparti Ungdom Aarhus (SFU Aarhus). Elected from May 2014 to December 2014	<b>2014</b>
<b>Treasurer,</b> Socialistisk Folkeparti Ungdom Aarhus (SFU Aarhus). Elected from December 2013 to May 2014	<b>2014</b>
<b>Party Committee (FU),</b> TÅGEKAMMERET, Aarhus University. Appointed for the board year 2013/14 from September 2013 to September 2014.	<b>2013–2014</b>
<b>Organizational Vice Chairman,</b> Socialistisk Folkeparti Ungdom Aarhus (SFU Aarhus). Elected from May 2013 to December 2013	<b>2013</b>
<b>Board member,</b> Socialistisk Folkeparti Ungdom Aarhus (SFU Aarhus). Elected from May 2012 to May 2013	<b>2012–2013</b>