

CURRICULUM VITAE

PERSONAL DETAILS

Name: Ann-Sofie Bak Nielsen

Birth date: 14. November 1990

Nationality: Danish

e-mail: nielsen@strw.leidenuniv.nl

University Address: J.H. Oort Building
Niels Bohrweg 2
NL-2333 CA Leiden
The Netherlands

EDUCATION

- 2018 PhD Astronomy, Leiden Observatory, Leiden, The Netherlands, expected autumn 2018
Supervisor: Alessandro Patruno
- 2014 MSc Physics, Dark Cosmology Centre, University of Copenhagen, Denmark
Supervisor: Jens Hjorth
Title: *Extinction curves and the total-to-selective extinction ration for dust formed in the type II_n SN 2005ip*
- 2012 BSc Physics, Dark Cosmology Center, University of Copenhagen, Denmark
Supervisor: Anja C. Andersen
Title: *The Dust Abundance and Evolution in Late-Type Galaxies*

SUMMER SCHOOLS

- 2015 CALTECH Gravitational Wave Astrophysics School (CGWAS 2015), CALTECH California, USA
- 2012 Nordita Masterclass in Physics, Hillerød, Denmark
- 2011 Observational summer school, University of Copenhagen, Nordic Optical telescope, La Palma
- 2008 Mathematics Camp, The Danish Youth Association of Science, Copenhagen, Denmark
- 2006 English Language school, EF language travel, Oxford, UK

TALKS

- 2017 Talk at the XMM conference, The X-ray Universe 2017, in Rome: “*2A 1822-371 as a Super Eddington Source*”
- 2016 Talk at the Netherlands Astronomy Conference (NAC): “*Long-term spin evolution of the X-ray pulsar X1822-371*”
- 2016 American School of the Hague: “*Stellar deaths, Neutron stars and Black Holes*”
The talk was given to 11 year old students, as part of an extra curricular science class, and on behalf of UNAWE.

PUBLICATIONS

- 2017: “The low luminosity behaviour of the 4U 0115+63 Be/X-ray transient”, Submitted to MNRAS
- 2017: “*The X-ray Pulsar 2A 1822–371 as a Super Eddington source*”, Published in MNRAS
- 2017: “*Early grey dust formation in the type II_n SN 2005ip*”, Submitted to A&A
- 2012: Article based on my bachelor project published in the Danish physics magazine KVANT, nr. 3 – 2012 (article only in Danish)
Title: “*Hvor kommer stjernestøvet fra - En fortælling om støv i det tidlige univers og i Mælkevejen*”
Translated English title: “*Where does the star dust come from – a story of dust in the early universe and in the Milky Way*”

LANGUAGE SKILLS

Danish: Native Language
English: Full Professional efficiency
German: Basic
Dutch: Basic

COMPUTING SKILLS

IDL Good knowledge
Python Good knowlegde
MATLAB Some knowledge
IRAF Some knowledge

PREVIOUS WORK EXPERIENCE

2012-2014 Student assistant at web based Almanak on the Niels Bohr institutes website, <http://www.nbi.ku.dk/almanakken/>

SECONDARY ACTIVITIES

I have been an active member of The Danish Youth Science Association of Science (UNF) since 2008, after I attended a summer school in mathematics arranged by UNF. I have here held a number of posts, most significant are listed below.

2010 Math Camp, responsible for social program and for contract with the participants
2011 Math Camp, responsible for sponsor applications
2012 Physics Camp, Coordinator of the Camp
2012-13 Member of the national board

At Leiden Observatory:

2017- Co-Chair of the Social Committee at Leiden Observaotry
2017- Translator for Space Scope, UNAWE (translate from English to Danish)

I have also been a member of the board of the Danish Association of Women in physics.