

Leibniz-Institut für Astrophysik Potsdam (AIP)  
 An der Sternwarte 16  
 14482 Potsdam, Germany

Email: tberlok@gmail.com  
 Phone: +49 151 20 24 60 72  
 www.tberlok.dk

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 EMPLOYMENT
 

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**Leibniz-Institut für Astrophysik Potsdam (AIP)** Dec 2017 – Nov 2023  
 Postdoc in the research group Cosmology and High-energy Astrophysics.

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 EDUCATION
 

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**Niels Bohr International Academy** Nov 2014 – Oct 2017  
 PhD fellow in Theoretical Astrophysics.  
 PhD thesis can be downloaded at [www.tberlok.dk/Berlok\\_thesis.pdf](http://www.tberlok.dk/Berlok_thesis.pdf).

**University of California, Berkeley** Aug 2016 – Oct 2016  
 Visiting PhD fellow at the Theoretical Astrophysics Center

**University of Copenhagen** Feb 2012 – Sep 2014  
 Master of Science in Physics  
 GPA: 11.3/12. Thesis grade: 12/12

**University of Utrecht** Sep 2012 – Feb 2013  
 Erasmus exchange student

**The European Organization for Nuclear Research, CERN** Jun 2012 – Aug 2012  
 CERN summer student

**University of Copenhagen** Sep 2008 – Jan 2012  
 Bachelor of Science in Physics  
 GPA: 10.9/12. Thesis grade: 12/12

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 GRANTS
 

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Oticon 10.000 DKK	2016
Lørup Scholar Stipend 50.000 DKK	2014
Julie Damms Studiefond 10.000 DKK	2012
Oticon 6.000 DKK	2012
Erasmus 9.000 DKK	2012

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 TEACHING AND SUPERVISION
 

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**Leibniz-Institut für Astrophysik Potsdam (AIP)** April 2019 –  
 Advisor for the MSc project of Oliver Franke

**Niels Bohr Institute, University of Copenhagen**  
*Teaching assistant*

Mathematics for physicists II Spring 2010 & 2011

Electromagnetism and electronics Spring 2013

Electromagnetism II Fall 2013

Thermodynamics Spring 2013

Theoretical Astrophysics Fall 2015

Geophysical Fluid Dynamics Fall 2015

**Utrecht University, the Netherlands**

Sep 2012 – Dec 2012

Co-supervised a project on Bose-Einstein condensates

**Frederiksberg Gymnasium, Copenhagen**

Aug 2011 – Dec 2011

Taught physics and natural sciences as a part time teacher at a Danish gymnasium

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## PROFESSIONAL AND ACADEMIC SERVICE

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Referee for the *Astrophysical Journal*

Local organiser of the *3rd ICM Theory and Computation Workshop* in 2014, Niels Bohr Institute, DK

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## COMPUTER SKILLS

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**Programming languages:** Python, C, Fortran, Matlab and Mathematica.

**Astrophysical codes:** Arepo, Athena, Athena++, Dedalus, Snoopy and the PhotonPlasma code.

**Tools:** Git, continuous integration (CI) and code coverage.

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## TALKS

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Santa Barbara Astro Lunch, **UCSB** Sep 25, 2019

Multiscale Phenomena In Plasma Astrophysics, **KITP** Sep 9, 2019

Physics Of The Intra-Cluster Medium: Theory And Computation, Budapest Mar 5, 2019

ICM Physics and Modeling, **MPA/ESO**, Garching Oct 10th, 2018

AIP Colloquium, AIP, Potsdam Jul 26th, 2018

PhD Prize talk, Annual Danish National Astronomy Meeting, Denmark May 3rd, 2018

Astrophysics Seminars, **DAMTP**, University of Cambridge Nov 14th, 2016

GAFD Seminars, University of California, **Santa Cruz** Sep 27th, 2016

Theoretical Astrophysics Center, University of California, **Berkeley** Aug 17th, 2016

Astrophysics Seminars, University of California, **Santa Barbara** Jun 3rd, 2015

Workshop on turbulence, **Les Houches** Mar 25th, 2015

3rd ICM Theory and Computation Workshop, **NBI**, Copenhagen Aug 2012, 2014

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## SCHOOLS

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DIAS Summer School in High-Energy Astrophysics, **DIAS** 19-29 June 2018

Prospects in Theoretical Physics 2016, **Institute for Advanced Study** 18-29 Jul 2016

6th Les Houches School in numerical physics, **Les Houches** 16-27 May 2016

NBIA Summer School on Astrophysical Plasmas, **NBI** 28 Aug-1 Sep 2015

From Protoplanetary Disks to Planet Formation, **Saas-Fee** 15-20 Mar 2015

From light to dark - the growing phase of supermassive black holes, **DARK** 19-23 May 2014

NBIA Summer School on Computational Astrophysics, **NBI** 19-23 Aug 2013

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