

Per Bjerkeli

Curriculum vitae

PERSONAL INFORMATION

Date of birth: February 28, 1977
Nationality: Swedish
Civil status: Married to Pernilla Bjerkeli
Children: Eira (born 2014) and Frida (born 2016)
Telephone: +46 703 413 192
Email: per.bjerkeli@bjerkeli.se
Website: <http://www.bjerkeli.se>
Scientific focus areas: Physics and chemistry of molecular outflows and shocks, accretion of matter onto protostars, water in regions of star formation, radiative transfer modelling.

EDUCATION

30.11.2012 Doctor of philosophy (Thesis subject: Water in molecular outflows and shocks)
16.04.2010 Licentiate of engineering (Thesis subject: Water in molecular outflows and shocks)
13.11.2007 Master of Science in engineering physics (Thesis subject: N-body simulations of interacting galaxies)

POSITIONS

14.11.2017 – Researcher: Chalmers University of Technology, Sweden. 100% research.
13.12.2016 – 13.11.2017 Postdoc: Chalmers University of Technology, Sweden. 100% research.
01.12.2013 – 12.12.2016 Postdoc: Niels Bohr Institute, University of Copenhagen, Denmark
01.12.2012 – 30.11.2013 Project assistant: Onsala Space Observatory, Sweden. 50% research. 15% outreach. 35% as observer during Swedish time at the APEX telescope.
01.12.2007 – 30.11.2012 Ph.D. student: Chalmers University of Technology, Sweden
80% dedicated to research. 20% teaching.

RESEARCH GRANTS AWARDED

2017 Swedish research council (Vetenskapsrådet): Starting grant, 3.200.000 SEK
2013 Swedish research council (Vetenskapsrådet): International postdoc grant, 3.150.000 SEK, 2,5 years at University of Copenhagen and 0,5 years at Chalmers University of Technology

OBSERVING PROGRAMS AWARDED TIME

2015 - 2016 ALMA: 7 projects, 15 hours in total
2012 - 2013 Herschel Space Observatory: 1 project, 4.7 hours
2008 - 2015 APEX: 4 projects, 115 hours in total
2008 - 2015 Onsala 20 m: 2 projects, ~1000 hours in total

TEACHING ACTIVITIES

2008 – present Regular outreach activities, e.g. guided tours at Onsala Space Observatory, public lectures at Day and Night of Astronomy, Museums, schools etc.
2008 – 2011 Teaching assistant in the under-graduate course Space Science & Techniques, Chalmers University of Technology
2011 Teaching assistant at the Nordic-Baltic summer school, Finland

2008 – 2009 Lab assistant at Chalmers University of Technology

SELECTED CONFERENCE CONTRIBUTIONS

2016 Palm Springs, USA: Half a decade of ALMA: Cosmic dawns transformed.
2 poster contributions

2016 Noordwijk, the Netherlands: Water in the Universe: From Clouds to
Oceans, Contributed conference talk

2015 Honolulu, USA: 221 International Astronomical Union XXIX general
assembly. Poster contribution

2013 Tokyo, Japan: SPICA Science Conference, poster contribution

2012 Grenoble, France: From atoms to pebbles, Herschel's view of Star and Planet
formation, poster contribution

2010 Göteborg, Sweden: Herschel and the formation of stars and planetary
systems, member of local organizing committee, poster contribution.

PROFESSIONAL ACTIVITIES / INTERNATIONAL RELATIONS

2017 – present Member of JWST (James Webb Space Telescope) - SPLASH (Spectral Line
Imaging of Astrophysical Shock Waves). PI: David Neufeld (US)

2016 – present co-I on the Decadal Astrophysics Probe Mission “Tracing Water from
Interstellar Clouds to the Solar System”. PI: Paul Goldsmith (US)

2016 – present Member of the Milky Way, ISM, and Nearby Galaxies science group for long-
term planning of the Origins Space Telescope (US).

2015 – present Member of the PILS program (Protostellar Interferometric Line Survey). PI:
Jes Jørgensen (DK)

2013 – present Referee: Nature, Nature Astronomy, The Astrophysical Journal, and
Astronomy and Astrophysics

2011 – present Member of the Nordic Astrobiology Network (Nordic and Baltic countries,
US)

2010 Member of the local organising committee, Herschel and the formation of
stars and planetary systems conference (SE).

2009 – present Member of the Water In Star forming regions with Herschel consortium. PI:
Ewine van Dishoeck (NL)

2009 – 2010 Participated in the performance calibration of the HIFI Instrument at the HIFI
Instrument Control Centre (NL)

2007 – 2009 Member of the Odin Astronomical Team. PI: Åke Hjalmarsen (SE).

CAREER BREAKS

16.12.2016 – 10.09.2017 Parental leave, 90-100%, 8 months

11.02.2016 – 24.02.2016 Parental leave 100%, 0.5 months.

01.10.2014 – 31.05.2015 Parental leave 80%, 6.4 months in total.

30.01.2014 – 12.02.2014 Parental leave 100%, 0.5 months.

COMPUTER SKILLS

Operating systems: Linux, Mac OS, Windows

Programming: Matlab (expert), Python (advanced), Fortran (basics)

Data reduction: XS (expert), HIPE (expert), CASA (expert), Gildas (advanced), IRAF (basics)

Radiative transfer modelling: RADEX (expert), ALI (expert), LIME (expert), RADMC-3D
(expert)