

Curriculum vitae — Peter Laursen

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Nationality: Danish
 Date of birth: June 24, 1975
 Spouse: Rikke Cederkvist
 Children: Iris & Sigurd
 (Paternity) leave: 2009 (4 months)
 2017 (5 + 3 months)
 2018 (3 months)
 Email: pela@nbi.ku.dk
 Webpage: anisotropela.dk



Academic record

- 2020–now: Senior scientific and communication coordinator, Cosmic Dawn Center (DAWN)
- 2016–2020: Postdoc/fellow, astrophysics; ITA
- 2015–2016: System administrator / IT support; Dark Cosmology Centre (DARK)
- 2012–2015: Postdoc/fellow, astrophysics; DARK
- 2010–2012: Postdoc/fellow, astrophysics; Oskar Klein Center, Stockholm University
- 2007–2010: Ph.D. student, astrophysics; DARK (3 months at Excellence Cluster Universe, Garching)
- 2004–2006¹: M.Sc. student, astrophysics; DARK (average grade 13/13)
- 1999–2002: B.Sc. student, physics/mathematics; Roskilde University (RUC)

Research fields

- Lyman α radiative transfer
- Galaxy modeling
- Galaxy formation
- Galaxies at high and low redshifts
- Reionization

¹ As apparent from my academic record, there is a gap between my bachelor and master studies; in 2002 I was in an accident that costed me ~a year of rehabilitation.

- Interstellar medium
- Intergalactic medium
- Emission from damped Ly α absorbers

IT qualifications

- MacOS: installation, configuration, support, storage, backup, peripheral equipment, documentation
- Relevant admin software: DeployStudio, Open Directory, Workgroup Manager, FileMaker Pro
- High-performance computing: job scheduling (Slurm), OpenMP
- Other: Computer kiosk and security camera maintenance, disk installment, RAID administration
- Coding languages: Python, Fortran, IDL, shell scripting
- Web
 - html, css (built the site anisotropela.dk)
 - WordPress (built the site cosmicdawn.dk)
- Published codes: see github.com/anisotropela

Academic activities

- Scientific Organizing Committees:
 - 2021: DAWN Summit 2021
 - 2021: CIDER: The Cold ISM During the Epoch of Reionisation (a SAZERAC meeting)
 - 2020: DAWN Summit 2020
 - 2014: From local galaxies to the reionisation epoch: the Universe as seen in Lyman α (European Week of Astronomy and Space Science; EWASS)
- Organizing scientific article discussions
 - 2020–: DAWN Journal Club (weekly)
 - 2012–2015: DARK astro-ph (daily)
- Memberships
 - 2021–: The European Astronomical Society (pending member)
 - 2019–: The International Astronomical Union
 - 2012–: The Lyman Alpha Reference Sample (LARS) collaboration (PI's: Göran Östlin and Matthew Hayes, Stockholm University)
- Referee in scientific journals
 - 2007–: Astrophysical Journal, Monthly Notices of the Royal Astronomical Society, Astronomy & Astrophysics
- Examination committees
 - Nicolás Garavito's M.Sc. defence, Universidad de los Andes, Bogotá, Colombia
- Reporting scientific activities to the Danish National Research Foundation
 - Annual reports
 - Regular contact with their outreach team

Publications

For a full list and summary, see anisotropela.dk/publications.

- Authored and co-authored refereed articles: 47 (2898 citations)
- First-author refereed articles: 7 (559 citations)
- *h*-index: 29

Awards and achievements

- 2019: Best Danish public outreach author on Forskerzonen (mentioned e.g. by the [Danish National Research Foundation](#))
- 2016: ITA Fellowship grant for three years of independent research
- 2012: DARK Fellowship grant for three years of independent research
- 2011: First-author of Sweden's most cited paper in astrophysics (see popast.nu/2011/12/arets-basta-astronomiforskning-2011)
- 2010: Villum Kann Rasmussen Foundation grant for two years of independent research

Invited talks and seminars

- 2019: Lyman α radiation from galaxy formation, University College London, UK
- 2015: Chasing the highest-redshift galaxies in Ly α , University of Oslo
- 2012: Interpreting Lyman α radiation from young, dusty galaxies, Roskilde University
- 2011: Dust and Lyman α , Nordic Network of Astrophysics and Cosmology workshop, Corsica
- 2010: Interpreting the Ly α line, Nordic Astrophysics workshop, Visby
- 2010: Modeling Ly α emission from high-*z* galaxies, Ly α and reionization workshop, U. of Stockholm
- 2009: Lyman α radiative transfer in the high-redshift, dusty Universe, Lund Observatory

Teaching and supervision

See full teaching portfolio at anisotropela.dk/teaching.

- **Main teacher**
 - "Classic papers in cosmology and astrophysics"
- **Co-teacher, teaching assistant, and guest lecturer**
 - Multiple courses on astronomy, cosmology, and computational physics
- **Supervision**
 - 2019: M.Sc. student Espen Hudme (subsidiary spv.), ITA, UiO
 - 2013: B.Sc. students Thejs Brinckmann and Mikkel Lindholmer (co-spv., DARK)

Public outreach

See full list of all outreach activities at anisotropela.dk/outreach.

- **Popular science writings**
 - Press releases and news stories on DAWN's science
 - Popular science articles (e.g. on videnskab.dk and ScienceNordic)
- **Media appearance**
 - Regular interviews to radio, podcasts, tv, newspapers, and online science sites
- **Public talks**
 - Regular talks about galaxies, cosmology, and other astronomy-related topics to high school students, astronomy associations, and the general public
- **Questions & answers**
 - Answering questions about physics and astronomy at the Niels Bohr Institute's outreach site, my own Q&A column, and the popular website StackExchange.com
- **Miscellaneous**
 - Tweeting about astronomy ([@anisotropela](https://twitter.com/anisotropela)). Posters, flyers, and articles for recruiting astronomy students. Public astronomy workshops (e.g. at the National Museum of Denmark). Public science debates. Science quizmaster. Astronomy art. Science slam.

Observational experience

Despite being mainly a numerical astrophysicist, I do have some observational experience:

- 2010–2021: Co-I on numerous successful proposals.
- 2009: PI on a program searching for Ly α emission from damped Ly α absorbers (4 nights at the NOT)
- Observed at the 2.5m Nordic Optical Telescope (25 nights), the IAC 80cm (6 nights), the Danish 1.5m (15 nights), the ESO 2.2m (8 nights).

Miscellaneous

- Languages: *Fluent*: Danish, English. *Intermediate*: Swedish, Norwegian. *Basic*: German, Spanish, sign-augmented language
- Personal interests: Boxing, Bicycle racing, playing [music](#).

Further references

Dr. Sijing Shen (3rd postdoc):	<code>sijing.shen@astro.uio.no</code>
Prof. Johan P. U. Fynbo (2nd postdoc):	<code>jfynbo@nbi.ku.dk</code>
Prof. Göran Östlin (1st postdoc):	<code>ostlin@astro.su.se</code>
Dr. Mark Dijkstra (Ph.D. committee):	<code>astromark@gmail.com</code>
Prof. Anja C. Andersen (Ph.D. spv.):	<code>anja@nbi.ku.dk</code>