

# Søren Larsen: Curriculum Vitae

## Personal data

Full name: Søren Schack Larsen

Born 13 August 1971 in Næstved, Denmark

Nationality/citizenship: Danish

Master's degree in astronomy from Copenhagen University (September 1996)

PhD in astronomy from Copenhagen University (September 1999)

## Contact / address information

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## Education and career

- **Feb 2012 – present:** Tenured faculty, Department of Astrophysics, Radboud University Nijmegen, The Netherlands
- **April 2006 – Jan 2012:** Faculty, Astronomical Institute at Utrecht University, the Netherlands (tenured since 2008).
- **Dec 2003 – Mar 2006:** Space Telescopes Instrument Scientist at ST-ECF, ESO, Garching
- **Jan 2003 – Dec 2003:** ESO Fellow at ESO Headquarters, Garching, Germany
- **Jan 2000 – Dec 2002:** Post-doc at University of California (Santa Cruz) / Lick Observatory, USA
- **Sep 1999 – Dec 1999:** Research associate (“forskningsadjunkt”) at Copenhagen University.
- **Sep 1996 – Sep 1999:** PhD thesis, “Young massive star clusters in Spiral Galaxies”
- **1995 – 1996:** Master's thesis, “Field star populations in the Magellanic Clouds”
- **1991 – 1995:** Physics / Astronomy undergraduate studies at Copenhagen University

## Impact

- $h$ -index = 38
- 11 publications with more than 100 citations each (7 of these as first author, 4 as single author)
- 24 publications with more than 50 citations each
- Total citations = 5016 (Mar 2018)

## **Awards, grants**

- 2018: NOVA5 grant for PhD position “Globular Cluster Escapée Stars with Gaia and WEAVE” (€220,000)
- 2016: Sponsor of Excellence Fellowship for V. Henault-Brunet (€170,000)
- 2012: NOVA4 grant for PhD position “Chemical composition of stellar populations beyond the Local Group: detailed abundance analysis of star clusters with X-Shooter” (€220,000)
- 2008: NOVA3 grant for cross-network PhD position “The Galactic Population of Open Clusters” (collaboration with P. Groot, Nijmegen and S. Portegies Zwart, Leiden)
- 2008: NOVA3 grant for PhD position “Resolving Star Formation and Dark Matter in Nearby Spiral Galaxies in Space and Time” (in collaboration with R. Peletier, Groningen)
- 2006: NWO/VIDI grant (€600,000)
- Successful observing proposals on a regular basis at ESO, WHT, Keck
- 4 HST/GO, 1 HST/AR proposals as PI, Co-I on HST proposals on a regular basis (incl. 800 orbit multi-cycle PHAT treasury programme)

## **Main research interests**

Resolved stellar populations – Chemical evolution of galaxies – Formation and evolution of stellar clusters – Young massive star clusters – Globular cluster systems

## Committees, Conference organisation, other community services

- ESA AAUG (Astronomy Archives Users Group), 2018–present
- NWO ENW astronomy advisory committee, 2018–present
- Ad-hoc committee on European Involvement in Large UV-Optical Space Telescope (2016–present)
- STUC (Space Telescope User’s Committee), 2015–2017
- MICADO (E-ELT imager) and MOSAIC (E-ELT spectrograph) science teams
- WEAVE science team (WEAVE is a planned fibre-fed spectrograph for the WHT)
- Euclid consortium member, 2016–present
- NWO/Veni fellowship committee (2010, 2015, 2016)
- LOCNOC (Dutch national education committee), 2014–present
- ESO Observing Programme Committee Panel B (2011–2012)
- Dutch Time Allocation Committee for Westerbork, Isaac Newton Group and JCMT (2006–2011)
- Dutch ESO Contact Commission (2006–2011)
- Key Researcher in Network 1 (Formation and Evolution of Galaxies) of the Dutch NOVA-3 programme
- Reviewer of service proposals for William Herschel Telescope, La Palma (2011 - present)
- Referee for all major journals in Astronomy & Astrophysics
- Conference organisation:
  - *Multiple Populations in Stellar Clusters: Recent Progress and Future Directions*, Sexten Center for Astrophysics, Sexten, Italy, July 2018 (SOC member)
  - *Dutch Astronomy Conference (NAC)*, Nijmegen, May 2017 (SOC member)
  - *Multiple Populations in Globular Clusters: Where do we stand?*, Sexten Center for Astrophysics, Sexten, Italy, July 2016 (SOC member)
  - *Globular Clusters and Galaxy Halos*, February 2016, Lorentz Center, Leiden (SOC chair)
  - *Nuclear Clusters in Galaxies and the Role of Environment*, June 2014, Lorentz Center, Leiden (SOC member)
  - *370 Years of Astronomy in Utrecht*, Noordwijkerhout, Netherlands, 2012 (SOC member)
  - *From Taurus to the Antennae*, Sheffield, UK, 2008 (SOC member)
  - *Young Massive Star Clusters*, Granada, Spain, 2007 (SOC member)
  - *Globular Clusters: Guides to Galaxies*, Concepcion, Chile, 2006 (SOC co-chair)

## Languages

Danish (mother tongue), English (written, spoken fluently), German, Italian, Dutch (good), Spanish (basic)

## Teaching / outreach experience

- Basic Teaching Qualification (BKO) from University of Utrecht
- Courses taught:
  - **2018–present:** *Galaxy Formation and Evolution*, Master’s course, Radboud University
  - **Sep 2016:** *Spectroscopy of Stars and Stellar Clusters*, one-week set of lectures at Universidad de Antioquia, Medellín, Colombia
  - **2015–present:** *Galaxies and Cosmology*, Nijmegen pre-university college course (for talented high school students)
  - **2014–present:** *Student seminar particle/astrophysics*
  - **2013–present:** *Sterrenstelsels (Galaxies)*, 2nd year undergraduate course, Radboud University Nijmegen (taught in Dutch)
  - **2012–present:** *Observational Astronomy*, 1st year undergraduate course, Radboud University Nijmegen (taught in Dutch from 2013)
  - **2012–2017:** *Cosmology* (Master’s course), Radboud University Nijmegen
  - **2008–2012:** *Observational Astrophysics I*, University of Utrecht (Bachelor’s course, part of the astronomy core programme in Utrecht, 3.75 ects, given annually)
  - **2007–2009:** Lecturer and coordinator of *Utrecht Summer School in Astrophysics*
  - **2007–2011:** *Galaxies*, University of Utrecht (part of the core astronomy Master’s programme in Utrecht, 7.5 ects, given annually)
- Student supervision:
  - **2018–present:** Bachelor’s student coordinator, Nijmegen
  - **2012–2017:** Master’s student coordinator, Dept. of Astrophysics, Nijmegen
  - Graduate students supervised: S. Hernandez, T. Pijloo, A. L. Chies Santos, E. Silva Villa, M. Mora, R. Scheepmaker
  - Master’s students supervised: L. IJspeert, T. Wijte, G. Hillebrink, M. Kaimakami, A. Faye McLeod, E. Kuiper, S. Rieder, G. Vissers, N. van der Pool

## Some recent talks

- “Signatures of multiple populations in integrated-light observations of globular clusters”, April 2018, EWASS, Liverpool
- “The chemical composition of globular clusters throughout the Local Group”, November 2017, Joint Astronomy Colloquium, Heidelberg
- “Integrated-light spectroscopy of extragalactic star clusters”, Toledo, Spain, Oct 2017 (at meeting on “Spectroscopic Surveys with the ELT”)
- “Chemical composition of GCs in Local Group dwarf galaxies”, Sexten Center for Astrophysics, June 2017 (invited talk at workshop on “Globular cluster systems and their host galaxies”)
- “The chemical composition of globular clusters throughout the Local Group”, May 2017 (colloquium at Rome Observatory)
- “Open questions in resolved studies of stellar populations and GCs”, Chicheley Hall, London, Apr 2017 (invited talk at Royal Society workshop on “Globular Cluster Formation and Evolution in the Context of Cosmological Galaxy Assembly”)
- “Globular Clusters and the Halos of Dwarf Galaxies”, Galápagos Islands, Mar 2017 (at conference “On the Origin (and Evolution) of Baryonic Galaxy Halos”)
- “Spitzer’s Dream: From the Conception of the Hubble Space Telescope to 26 years of Discoveries and Beyond”, Sep 2016 (popular lecture at Planetario de Medellín, Colombia)
- “Multiple Populations in Extragalactic Globular Clusters”, Sexten, Jul 2016 (at workshop on “Globular Clusters: Where do we stand?”)
- “Resolving Super Star Clusters”, Edinburgh, Jul 2016 (at HDST/LUVOIR workshop)
- “Detailed chemical abundance analysis of semi-resolved stellar populations”, Cefalù, Italy, Sep 2015 (invited talk at meeting on “Science with MOS: towards the E-ELT Era”)
- “Globular Clusters in M31, Local Group, and external galaxies”, Honolulu, Aug 2015 (invited review at IAU Symposium #317)
- “Massive Star Clusters in Dwarf Galaxies”, Honolulu, Aug 2015 (invited review at IAU Symposium #316)
- “The origin of multiple populations in globular clusters: clues from dwarf galaxies”, May 2015 (colloquium at Dept. of Astronomy, Stockholm University)
- “Globular Clusters in Dwarf Galaxies”, Apr 2015 (colloquium at Astrophysics Research Institute, Liverpool John Moores University, UK)
- “The origin of multiple populations in globular clusters: clues from dwarf galaxies”, Jan 2015 (colloquium at University of Surrey, UK)
- “Observational Constraints on Globular Cluster Formation Scenarios”, Copenhagen, Nov 2014 (invited talk at workshop on “The Early Life of Stellar Clusters”)
- “Linking globular clusters to their host galaxies”, Sexten, Jul 2014 (invited keynote talk at workshop on “A Critical Look at Globular Cluster Formation Theories”)
- “Chemical Composition of Globular Clusters in the Local Group”, Leiden, Jul 2014 (Lorentz centre workshop on “Nuclear Clusters in Galaxies, and the Role of the Environment”)