

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)

Current position: Associate professor, Radboud University, Nijmegen

Contact / address information

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Education and career

- **Feb 2012 – present:** Tenured faculty, Department of Astrophysics, Radboud University Nijmegen, The Netherlands. *Ius promovendi* (right to promote doctoral candidates) since Mar 2020.
- **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 (Feb 2024)

- h -index = 50
- 15 publications with more than 100 citations each
- Total citations = 7768

Awards, grants

- 2023: Co-I on NWO Infrastructure Grant for ELT instrumentation (€17,956,046)
- 2020: Sponsor of Excellence Fellowship for S. Martocchia (€170,000)
- 2018: NOVA5 grant for PhD position “Globular Cluster Escapee 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, HST

Main research interests

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

International scientific committees and working groups

- Co-lead of Euclid Science Working Group on the Milky Way and Resolved Stellar Populations
- VIS Channel Scientist for the MOSAIC ELT spectrograph
- MOSAIC science team: coordinator of science working group “Stellar populations in and beyond the Milky Way”
- MICADO (ELT imager) science team (on-going)
- WEAVE science team (WEAVE is a fibre-fed spectrograph for the William Herschel Telescope on La Palma) (on-going)
- ESO Users Committee, 2020–present
- Isaac Newton Group Science Advisory Committee, 2020–present
- Hubble Space Telescope time allocation committee (2019,2020)
- ESA AAUG (Astronomy Archives Users Group), 2018–present
- ESO Observing Programme Committee, Panel D (2018–2019)
- STUC (Space Telescope Users Committee), 2015–2017
- Euclid consortium member, 2016–present
- Ad-hoc committee on European Involvement in Large UV-Optical Space Telescope (2016)
- ESO Observing Programme Committee, Panel B (2011–2012)

National and local committees, management & community services

- LOCNOC chair (Dutch national astronomy education committee), since 2019
- NWO ENW *Tafel* (astronomy advisory committee), 2018–2024
- NOVA fellowship selection committee, 2018
- NWO/Veni fellowship committee (2010, 2015, 2016)
- LOCNOC member 2014–2019
- Bachelor’s thesis coordinator, Physics & Astronomy, Nijmegen (2018–present)
- Master’s student coordinator, Dept. of Astrophysics, Nijmegen (2012–2017)
- Reviewer of service proposals for William Herschel Telescope, La Palma (2011 - present)
- Dutch ESO Contact Commission (2006–2011, 2019-present)
- Dutch Time Allocation Committee for Westerbork, Isaac Newton Group and JCMT telescopes (2006–2011)
- Key Researcher in Network 1 (Formation and Evolution of Galaxies) of the Dutch NOVA-3 programme

Conference organisation

- *Illuminating galaxy formation with ancient globular star clusters and their progenitors*, Aspen, March 2022 (SOC member)
- *Extragalactic Globular Clusters with upcoming wide-field space-based surveys*, EAS 2021 special session (SOC member)

- *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 thesis coordinator, Nijmegen
 - **2012–2017:** Master's student coordinator, Dept. of Astrophysics, Nijmegen

- Graduate students supervised: M. Nizovkina, A. Gvozdenko, S. Hernandez, T. Pijloo, A. L. Chies Santos, E. Silva Villa, M. Mora, R. Scheepmaker
- Master's students supervised: J. Buijze, B. van Heumen, A. Pogosian, P. Willemsen, N. Gerfen, L. IJspeert, T. Wijte, G. Hillebrink, M. Kaimakami, A. Faye McLeod, E. Kuiper, S. Rieder, G. Vissers, N. van der Pool

Some recent talks

- “Euclid: the Early Release Observations”, Dutch NOVA Network 1 meeting, Leiden, Nov 2023
- “The chemical composition of extragalactic globular clusters from NLTE integrated-light spectroscopy”, at conference *Metal Production and Distribution in a Hierarchical Universe*, ESO/Santiago, Nov 2023
- “Detailed chemical composition of Local Group globular clusters”, Sexten, July 2023
- “Early Science with Euclid in the Milky Way & Resolved Stellar Populations context”, Euclid consortium meeting, June 2023
- “NLTE abundances from integrated-light spectra of globular clusters”, IRENA NLTE Workshop, Chicago, May 2023 (invited)
- “Linking the formation and evolution of star clusters to their host galaxies”, invited review, MIAPP workshop, Munich, Oct 2022
- “The chemical composition of globular clusters in the Local Group”, colloquium, Vienna, Jan 2022
- “M31-EXT8: The most metal-poor globular cluster”, European Astronomical Society annual meeting, June 2021
- “Chemical abundances of extragalactic globular clusters: new results and a surprise”, Colloquia at Universidad Catolica, Santiago, Chile (Oct 2020, virtual) Porto Alegre, Brazil (Nov 2020, virtual), Exeter, UK (May 2021, virtual)
- “Chemical Abundances from Integrated Light”, ESO Santiago, Aug 2019 (“Thirty Minute Talk”)
- “Chemical composition of globular clusters in dwarf galaxies”, Bologna, May 2019 (MODEST-19 / IAU Symp. 351: Star clusters: from the Milky Way to the Early Universe)
- “Integrated-light abundance measurements of Local Group globular clusters”, May 2019, Lorentz Center workshop “Metals in Galaxies, Near and Far: Looking Ahead”
- “Chemical abundances from integrated-light observations of star clusters”, Feb 2019 (colloquium at ICC, Barcelona)
- “Globular clusters in very low luminosity galaxies”, Leiden, Feb 2019 (invited talk at Lorentz Center workshop on “Formation of stars and massive clusters in dwarf galaxies over cosmic time”)
- “The chemical composition of globular clusters throughout the Local Group”, January 2019 (colloquium at Anton Pannekoek Institute, University of Amsterdam)
- “Spectroscopy of Globular Clusters in the Local Group”, Sexten, July 2018
- “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”)