

# Sarrvesh Seethapuram Sridhar

## Personal Information

Date of birth September 15, 1989 (28 years old)  
Place of birth Chennai (India)  
Citizenship Indian  
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## Education

2013–Present **Ph.D. Astronomy**,  
*University of Groningen, The Netherlands*,  
Thesis title: On magnetic fields in nearby galaxies.  
Thesis advisors: Dr. George Heald and Prof. Dr. J.M. (Thijs) van der Hulst.  
Expected finishing date: 31 October 2017.

2011–2013 **M.Sc. Physics and Astronomy**,  
*Chalmers University of Technology, Gothenburg, Sweden*,  
Thesis title: Modelling the Gravitationally Lensed Quasar PKS 1830-211.  
Thesis advisors: Dr. Cathy Horellou and Dr. Sebastien Muller.

2006–2010 **Bachelor in Electronics and Communications Engineering**,  
*Panimalar Engineering College, Anna University, Chennai, India*.

## Internships & Research Visits

2016/17 **Extended research visit (6 months)**,  
*Commonwealth Scientific and Industrial Research Organisation (CSIRO), Perth, Australia*.

Aug 2012 **Collisional Penrose Process Near Rotating Black Holes**,  
*Nicolaus Copernicus Astronomical Center (CAMK), Warsaw, Poland*,  
Advisor: Prof. Dr. Marek A. Abramowicz.

Sep 2012–  
Dec 2012 **Redshift Space Distortion as a Cosmological Probe**,  
*Nicolaus Copernicus Astronomical Center (CAMK), Warsaw, Poland*,  
Advisor: Dr. Michał Chodorowski.

## Schools & Workshops Attended

Oct 2016 **Publishing with Impact workshop 2016**,  
*CSIRO, Perth, Australia*.

Nov 2014 **Third LOFAR Data Processing School 2014**,  
*ASTRON, The Netherlands*.

Aug 2014 **Scientific Writing for Young Astronomers (SWYA 2014)**,  
*Course organized by Astronomy & Astrophysics*.

Jul 2014 **Workshop on Galaxies and Cosmology**,  
*National Center for Radio Astrophysics (NCRA), Pune, India*.

May 2014 **14th Synthesis Imaging Workshop**,  
*New Mexico Institute of Mining and Technology, Socorro, New Mexico*.

- Jul 2013 **Galaxy Formation and Evolution in a Cosmological Context**,  
*Summer School at Laboratoire d'Astrophysique de Marseille (LAM), France.*
- Jun 2013 **Summer School on "Molecules in Space"**,  
*Onsala Space Observatory, Sweden.*
- Jun 2012 **Nordic Millimetre and Optical/NIR Astronomy Summer School 2012**,  
*Observational Cosmology and the Formation and Evolution of Galaxies*,  
Onsala Space Observatory, Onsala, Sweden.

## Publications

11. **Reliable detection and characterization of low-frequency polarized sources in the LOFAR M51 field**, *Neld et al*, Submitted to A&A on Oct 23, 2017..
10. **LOFAR MSSS: The scaling relation between AGN cavity power and radio luminosity at low radio frequencies**, *Kokotanekov et al*, A&A, eprint arXiv:1706.00225.
9. **What drives galactic magnetism?**, *Chyży, Sridhar et al*, A&A, eprint arXiv:1705.07187.
8. **Discovery of a 2.56 Mpc Giant Radio Galaxy associated with a disturbed galaxy group**, *Clarke et al*, A&A, eprint arXiv:1702.01571.
7. **The LOFAR Two-metre Sky Survey – I. Survey Description and Preliminary Data Release**, *Shimwell et al*, A&A, eprint arXiv:1611.02700.
6. **Faraday Tomography of the Local Interstellar Medium with LOFAR: I. Galactic Foregrounds Towards IC342**, *Van Eck et al*, A&A, eprint arXiv:1612.00710.
5. **LOFAR Facet Calibration**, *van Weeren et al (2016)*, ApJS, eprint arXiv:1601.05422.
4. **LOFAR, VLA, and Chandra Observations of the Toothbrush Galaxy Cluster**, *van Weeren et al (2016)*, ApJ, eprint arXiv:1601.06029.
3. **A plethora of diffuse steep spectrum radio sources in Abell 2034 revealed by LOFAR**, *Shimwell et al (2016)*, MNRAS, eprint arXiv:1603.06591.
2. **LOFAR 150 MHz observations of the Boötes field: Catalogue and Source Counts**, *Williams et al (2016)*, MNRAS, eprint arXiv:1605.01531.
1. **Diversity in extinction laws of Type Ia supernovae measured between 0.2 and 2  $\mu\text{m}$** , *Amanullah et al (2015)*, MNRAS, eprint arXiv:1504.02101.

## Proceedings

- 2015 **Magnetic field on a wide range of scales in star-forming galaxies**,  
*George Heald, Anna Williams, Sarrvesh S. Sridhar*,  
Proceedings of the conference "The many facets of extragalactic radio surveys: towards new scientific challenges", PoS(EXTRA-RADSUR2015)011.

## Conference Presentations

- June 2017 **Talk on low frequency observations of nearby dwarf galaxies**,  
*Conference "Nearby Galaxies at Low Frequencies - Processes and Probes"*,  
Gothenburg, Sweden.
- Nov 2016 **Talk on low frequency observations of nearby galaxies**,  
*Conference "The First Pietro Baracchi Conference"*, Perth, Australia.
- June 2016 **Invited talk on Applying facet calibration to LOFAR data**,  
*Conference "Galactic and Extragalactic magnetic fields from data"*,  
Bochum, Germany.
- June 2015 **Low frequency observations of the Pinwheel galaxy (M101)**,  
*Conference "LOFAR Science 2015"*, Assen, The Netherlands.

Oct 2014 **Magnetic field structures in the Pinwheel galaxy (M101/NGC 5457),**  
*Conference "Cosmic Magnetic Fields", Krakow, Poland.*

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## Teaching Experience

- Oct 2017 **Seventh European Radio Interferometry School 2017,**  
*ASTRON, The Netherlands,*  
Assisted school participants with LOFAR calibration and imaging.
- Sep 2016 **Fourth LOFAR Data Processing School 2016,**  
*ASTRON, The Netherlands,*  
Assisted school participants with LOFAR calibration and imaging.
- Apr.–Jun. 2015 **Introduction to Programming and Computational Methods,**  
*Kapteyn Institute, The Netherlands,*  
Teaching assistant for a Bachelor's course.
- 2014/2015 **Statistical Signal Processing,**  
*Kapteyn Institute, The Netherlands,*  
Teaching assistant for a Master's course.
- Apr.–Jun. 2014 **Physics of Galaxies,**  
*Kapteyn Institute, The Netherlands,*  
Teaching assistant for a Bachelor's course.

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## Grants & Awards

- 2017 **Leids Kerkhoven-Bosscha Fonds (LKBF) travel grant,**  
*Awarded €800.00 to attend the Science at Low Frequencies IV conference in Sydney, Australia.*
- 2017 **Leids Kerkhoven-Bosscha Fonds (LKBF) travel grant,**  
*Awarded €650.00 to visit CSIRO Astronomy and Space Science (CSIRO/CASS) in Perth, Australia.*
- 2017 **Leids Kerkhoven-Bosscha Fonds (LKBF) travel grant,**  
*Awarded €400.00 to attend the conference on The Broad Impact of Low Frequency Observing in Bologna, Italy.*
- 2016 **Leids Kerkhoven-Bosscha Fonds (LKBF) travel grant,**  
*Awarded €1400.00 to visit CSIRO Astronomy and Space Science (CSIRO/CASS) in Perth, Australia.*
- 2015 **Leids Kerkhoven-Bosscha Fonds (LKBF) travel grant,**  
*Awarded €800.00 to attend the Cosmic Magnetic Fields meeting in Stockholm, Sweden.*
- 2014 **Best Abstract Contest,**  
*One of the three abstracts chosen as part of the Best Abstract Contest at the Cosmic Magnetic Fields conference held in Krakow, Poland.*
- 2014 **Leids Kerkhoven-Bosscha Fonds (LKBF) travel grant,**  
*Awarded €800.00 to attend the 14th Synthesis Imaging Workshop in New Mexico, USA.*

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## Observing Experience

VLA 23 hours as PI  
LOFAR 36 hours as PI and 77 hours as co-I  
Westerbork 48 hours as PI  
GMRT 40 hours as co-I

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## Collaborations

1. LOFAR Magnetism Key Science Project (MKSP)

2. LOFAR Survey Key Science Project (SKSP)
3. MeerKAT MIGHTEE-POL working group

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## Non-academic Work Experience

- Dec 2010– **Software Engineer**,  
Aug 2011 *HCL Technologies India Pvt. Ltd.*, Chennai, India.  
Description Design and Development of the Graphical User Interface for Cisco's Wireless LAN Controller using C, emweb, and HTML.
- Sep 2010– **Junior Visual Aid Specialist**,  
Nov 2010 *Visual Graphics Computing Services (McKinsey & Company)*, Chennai, India.  
Description Creating graphical presentations out of the managerial texts provided by clients.

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## Computer skills

- OS Linux, Windows
- Programming C/CUDA C, Python, HTML, Matlab
- Tools LOFAR Calibration software, CASA, Miriad, AIPS
- Typography  $\text{\LaTeX}$