

# Sarrvesh Seethapuram Sridhar

## Personal Information

Date of birth September 15, 1989  
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 & Projects

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 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

8. **Discovery of a 2.56 Mpc Giant Radio Galaxy associated with a disturbed galaxy group**, *Clarke et al*, Submitted to A&A.  
Significant contribution to both data reduction and science analysis.
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.  
Contributed to the paper in the form of development and maintenance of the Rotation Measure Synthesis software package (pyrmsynth).
5. **LOFAR Facet Calibration**, *van Weeren et al (2016)*, ApJS, eprint arXiv:1601.05422.  
Significant contribution to the paper in the form of development and commissioning the facet calibration data reduction pipeline.
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.  
Contributed to the software pipeline used to calibrate and image LOFAR data.
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.  
Assisted with optical observations using the Nordic Optical Telescope (NOT).

## 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 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.

## Teaching Experience

- 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.

## Grants & Awards

2016 **Leids Kerkhoven-Bosscha Fonds (LKBF) travel grant**,  
*Awarded a sum of 1400.00 euros to visit CSIRO Astronomy and Space Science (CSIRO/CASS) in Perth, Australia.*

2015 **Leids Kerkhoven-Bosscha Fonds (LKBF) travel grant**,  
*Awarded a sum of 800.00 euros 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 a sum of 800.00 euros to attend the 14th Synthesis Imaging Workshop in New Mexico, USA.*

## Observing Experience

VLA 23 hours as PI  
LOFAR 35.5 hours as PI and 77 hours as co-I  
Westerbork 48 hours as PI  
GMRT 30 hours as co-I

## Collaborations

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

## Non-academic Work Experience

Dec 2010– Aug 2011 **Software Engineer**,  
*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– Nov 2010 **Junior Visual Aid Specialist**,  
*Visual Graphics Computing Services (McKinsey & Company), Chennai, India.*

Description Creating graphical presentations out of the managerial texts provided by clients.

## Computer skills

OS Linux, Windows  
Programming C/CUDA C, Python, HTML, Matlab  
Tools LOFAR Calibration software, CASA, Miriad, AIPS  
Typography L<sup>A</sup>T<sub>E</sub>X