

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 **Graduate student,**
Kapteyn Astronomical Institute,
University of Groningen, The Netherlands.

2011–2013 **M.Sc. Physics and Astronomy,**
Chalmers University of Technology, Gothenburg, Sweden.

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

Master's thesis

Title **Modelling the Gravitationally Lensed Quasar PKS 1830-211**
Supervisors Cathy Horellou and Sebastien Muller,
Chalmers University of Technology,
Onsala Space Observatory, Onsala, Sweden.
Duration January 2013 - August 2013

Internships & Projects

Aug 2012 **Collisional Penrose Process Near Rotating Black Holes,**
Nicolaus Copernicus Astronomical Center (CAMK), Warsaw, Poland.
Advisor Marek Abramowicz
Description Probing the maximal energy of the products created through particle collisions close to the event horizon of rotating black holes.

Sep 2012–
Dec 2012 **Redshift Space Distortion as a Cosmological Probe,**
Nicolaus Copernicus Astronomical Center (CAMK), Warsaw, Poland.
Advisor Michal Chodorowski
Description Constraining the underlying cosmological model based on the redshift space distortions in the galaxy correlation function. As a part of this project, I analyzed data extracted from the dark matter halo catalogues of the Millennium-II Simulation.

Schools & Workshops Attended

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

Aug 2014 **Scientific Writing for Young Astronomers (SWYA 2014),**
Course organized by the journal 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.
- Nov 2013 **Chalmers AGN and Galaxy Days 2013**,
Onsala Space Observatory, Sweden.
- Jul 2013 **Galaxy Formation and Evolution in a Cosmological Context**,
Summer School at Laboratoire d'Astrophysique de Marseille, France.
- Jun 2013 **Summer School on "Molecules in Space"**,
Onsala Space Observatory, Sweden.
- May 2013 **Nordic Science With ALMA**,
Conference at Chalmers University of Technology, Sweden.
- Feb 2013 **Cosmology for All**,
Conference at Lund 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.

Refereed Publications

- 2016 **LOFAR Facet Calibration**,
R. J. van Weeren, W. L. Williams, M. J. Hardcastle, T. W. Shimwell, D. A. Rafferty, J. Sabater, G. Heald, S. S. Sridhar, T. J. Dijkema, G. Brunetti, M. Brüggen, F. Andrade-Santos, G. A. Ogrean, H. J. A. Röttgering, W. A. Dawson, W. R. Forman, F. de Gasperin, C. Jones, G. K. Miley, L. Rudnick, C. L. Sarazin, A. Bonafede, P. N. Best, L. Bîrzan, R. Cassano, K. T. Chyży, J. H. Croston, T. Enßlin, C. Ferrari, M. Hoeft, C. Horellou, M. J. Jarvis, R. P. Kraft, M. Mevius, H. T. Intema, S. S. Murray, E. Orrú, R. Pizzo, A. Simionescu, A. Stroe, S. van der Tol, and G. J. White 23,24, Accepted for publication in ApJS, eprint arXiv:1601.05422.
- 2016 **LOFAR, VLA, and Chandra Observations of the Toothbrush Galaxy Cluster**,
R. J. van Weeren, G. Brunetti, M. Brüggen, F. Andrade-Santos, G. A. Ogrean, W. L. Williams, H. J. A. Röttgering, W. A. Dawson, W. R. Forman, F. de Gasperin, M. J. Hardcastle, C. Jones, G. K. Miley, D. A. Rafferty, L. Rudnick, J. Sabater, C. L. Sarazin, T. W. Shimwell, A. Bonafede, P. N. Best, L. Bîrzan, R. Cassano, K. T. Chyży, J. H. Croston, T. J. Dijkema, T. Enßlin, C. Ferrari, G. Heald, M. Hoeft, C. Horellou, M. J. Jarvis, R. P. Kraft, M. Mevius, H. T. Intema, S. S. Murray, E. Orrú, R. Pizzo, S. S. Sridhar, A. Simionescu, A. Stroe, S. van der Tol, and G. J. White, Accepted for publication in ApJ, eprint arXiv:1601.06029.
- 2016 **A plethora of diffuse steep spectrum radio sources in Abell 2034 revealed by LOFAR**,
T. W. Shimwell, J. Luckin, M. Brüggen, G. Brunetti, H. T. Intema, M. S. Owers, H. J. A. Röttgering, A. Stroe, R. J. van Weeren, W. L. Williams, F. de Gasperin, G. Heald, D. N. Hoang, M. J. Hardcastle, S. S. Sridhar, J. Sabater, R. Cassano, P. N. Best, K. T. Chyży, T. A. Enßlin, C. Ferrari, M. Haverkorn, M. Hoeft, C. Horellou, J. P. McKean, L. K. Morabito, E. Orrú, R. Pizzo, E. Retana-Montenegro, G. J. White, Accepted for publication in MNRAS, eprint arXiv:1603.06591.

- 2016 **LOFAR 150 MHz observations of the Boötes field: Catalogue and Source Counts**, W. L. Williams, R. J. van Weeren, H. J. A. Röttgering, P. Best, T. J. Dijkema, F. de Gasperin, M. J. Hardcastle, G. Heald, I. Prandoni, J. Sabater, T. W. Shimwell, C. Tasse, I. M. van Bemmell, M. Brüggen, G. Brunetti, J. E. Conway, T. Enßlin, D. Engels, H. Falcke, C. Ferrari, M. Haverkorn, N. Jackson, M. J. Jarvis, A. D. Kapinska, E. K. Mahony, G. K. Miley, L. K. Morabito, R. Morganti, E. Orrú, E. Retana-Montenegro, **S. S. Sridhar**, M. C. Toribio, G. J. White, M. W. Wise, J. T. L. Zwart,
Accepted for publication in MNRAS, eprint arXiv:1605.01531.
- 2015 **Diversity in extinction laws of Type Ia supernovae measured between 0.2 and 2 μm** ,
R. Amanullah, J. Johansson, A. Goobar, R. Ferretti, S. Papadogiannakis, T. Petrushevska, P. J. Brown, Y. Cao, C. Contreras, H. Dahle, N. Elias-Rosa, J. P. U. Fynbo, J. Gorosabel, L. Guaita, L. Hangard, D. A. Howell, E. Y. Hsiao, E. Kankare, M. Kasliwal, G. Leloudas, P. Lundqvist, S. Mattila, P. Nugent, M. M. Phillips, A. Sandberg, V. Stanishev, M. Sullivan, F. Taddia, G. Östlin, S. Asadi, R. Herrero-Illana, J. J. Jensen, K. Karhunen, S. Lazarević, E. Varenius, P. Santos, **S. Seethapuram Sridhar**, S. H. J. Wallström, J. Wiegert,
Accepted for publication in MNRAS, eprint arXiv:1504.02101.

Conference Presentations & Posters

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

Teaching Experience

- Apr.–Jun. **Introduction to Programming and Computational Methods**,
2015 *Kapteyn Institute, The Netherlands*,
Teaching assistant for the Bachelor's course.
- 2014/2015 **Statistical signal processing**,
Kapteyn Institute, The Netherlands,
Teaching assistant for the Master's course.
- Apr.–Jun. **Physics of Galaxies**,
2014 *Kapteyn Institute, The Netherlands*,
Teaching assistant for the Bachelor's course.

Grants & Awards

- 2016 **Leids Kerkhoven-Bosscha Fonds (LKBF) travel grant**,
Awarded a sum of 700.00 euros to visit the Center for 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.

PI Observing Experience

VLA 20 hours
LOFAR 8.5 hours
Westerbork 48 hours

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 Kenwood Wireless LAN Controller.

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.

Computer skills

OS Linux, Windows
Programming C, CUDA C, Python, HTML, Matlab
Tools AIPS, Miriad, CASA, Gravlens, xs
Typography \LaTeX

Languages

English **Fluent**
Tamil **Native**
Telugu **Fluent**

Other interests

- History of Western Philosophy
- Popular Science
- Volunteer for Amnesty International Groningen