

# Mathew Syriac Madhavacheril

Department of Physics and Astronomy  
Stony Brook University  
Stony Brook, NY 11790

Email: mathew.madhavacheril@stonybrook.edu  
Web: astro.sunysb.edu/msyriac  
Tel: +1 631 682 1681

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<b>Education</b>	<p><b>Stony Brook University</b>, Stony Brook, NY <i>PhD (expected)</i>, Physics</p> <p><b>University of Cambridge</b>, Cambridge, UK <i>BA Affiliated</i>, Part II and Part III Physics, First Class, 2011</p> <p><b>St. Stephen's College, University of Delhi</b>, New Delhi, India <i>BSc. (Hons.)</i>, Physics, First Class, 2009</p>
<b>Research Interests</b>	<p>Cosmology and particle astrophysics; data analysis and theory CMB lensing; optical weak lensing and shear estimation; joint CMB/optical probes Galaxy clusters; growth of structure Astrophysical probes of particle dark matter</p>
<b>Awards and Grants</b>	<ul style="list-style-type: none"><li>• Astronomical Society of New York (ASNY) Graduate Student Paper Prize (2015)</li><li>• LSST-DESC Student Travel Grant (2015)</li><li>• <i>Editor's Suggestion</i> and <i>Viewpoint in Physics</i> pick for first-author paper in <i>Physical Review Letters</i> (2015)</li><li>• H. B. Silsbee Award for Excellence, Physics Department, Stony Brook University (2015)</li><li>• Jonathan Kauffman Student Excellence Prize in Physics, Physics Department, Stony Brook University (2014)</li><li>• Jennings Prize, Wolfson College, University of Cambridge (2011)</li><li>• Gates Cambridge Scholarship, University of Cambridge (2009)</li><li>• Usha-India Physics Prize, Physics Department, St. Stephen's College, Delhi (2009)</li><li>• Science Meritorious Award, University of Delhi (2009)</li></ul>
<b>Teaching Experience</b>	<ul style="list-style-type: none"><li>• Co-adviser for undergraduate researcher Danylo Yakymiv at Stony Brook University (2015)</li><li>• Teaching Assistant, Stony Brook University (2011 - 2013)</li><li>• Faculty, Cambridge Tradition and Cambridge Prep Summer Schools, Oxbridge Academic Programs, UK (2011, 2012)</li></ul>
<b>Professional Service</b>	<ul style="list-style-type: none"><li>• Remote Observing Coordinator (ROC) for ACTPol observations since 09/14</li><li>• Visited the ACTPol telescope site on Cerro Toco, Chile, 12/13 to help with site operations</li></ul>
<b>Talks and Posters</b>	<ul style="list-style-type: none"><li>• Contributed Talk at <i>Future Challenges in Shear Estimation</i>, University of Pennsylvania, PA 11/15</li><li>• LSST-DESC Meeting <i>Theory and Joint Probes</i> Work Update, Argonne National Lab, IL 10/15</li><li>• Astrophysics Seminar, Imperial College, UK 09/15</li><li>• Astrophysics Seminar, University College London, UK 09/15</li><li>• Institute of Astronomy Seminar, University of Cambridge, UK 09/15</li></ul>

- Oxford Astrophysics Seminar, University of Oxford, UK 09/15
- Contributed Talk at *Cosmology Meeting 2015*, Barcelona 09/15
- Joint Stony Brook / Brookhaven National Lab Cosmology Seminar, NY 06/15
- Seminar at Canadian Institute for Theoretical Astrophysics, Toronto 05/15
- Seminar at Perimeter Institute for Theoretical Physics, Waterloo, Canada 05/15
- LSST-DESC *Theory and Joint Probes* Working Group Update, Pittsburgh, PA 04/15
- Yang Institute for Theoretical Physics Seminar, Stony Brook, NY 02/15
- Department of Astronomy Seminar, Columbia University, NY 02/15
- Cosmology Lunch Seminar, Princeton University, NJ 01/15
- *CMB Polarization 2015*, Minneapolis, MN (Poster) 01/15
- Department of Physics & Astrophysics Seminar, University of Delhi, India 08/14
- *PCTS Dark Matter Workshop* (Poster), Princeton University, NJ 10/13

**Skills** Python, C, Modern Fortran, MPI, **bash** shell scripting

<b>References</b>	Prof. Neelima Sehgal	neelima.sehgal@stonybrook.edu
	Dr. Anže Slosar	anze@bnl.gov
	Prof. David Spergel	dns@astro.princeton.edu