

CURRENT AFFILIATION	<p><b>Physics Graduate Student and Teaching Assistant</b>  School of Physics &amp; Astronomy, University of Minnesota Twin Cities, MN 55455, USA</p>
CONTACT INFORMATION	<p>Office: TATE 201-04, 116 Church St SE, Minneapolis, MN 55455, USA  Email: <a href="mailto:ghosh116@umn.edu">ghosh116@umn.edu</a></p>
EDUCATION	<p><b>Doctorate of Philosophy (Ph.D.)</b> in Physics, August 2017-Present</p> <ul style="list-style-type: none"> <li>• <a href="#">University of Minnesota Twin Cities</a>, USA</li> <li>• Advisor: Prof. Liliya L. R. Williams</li> </ul> <p><b>Master of Science (M.Sc.)</b> in Physics, July 2014-July 2016</p> <ul style="list-style-type: none"> <li>• <a href="#">Indian Institute of Technology Kharagpur</a>, India</li> <li>• Masters' Thesis Advisor: Prof. Tirtha Sankar Ray</li> </ul> <p><b>Bachelor of Science (B.Sc.)</b> with Honors in Physics, June 2011-July 2014</p> <ul style="list-style-type: none"> <li>• <a href="#">Serampore College</a> (affiliated to <a href="#">University of Calcutta</a>, India)</li> </ul>
RESEARCH INTERESTS	<p>Theoretical Cosmology and Extragalactic Astrophysics: Gravitational Lensing in Galaxies and Clusters of Galaxies and Dark Matter.</p>
OTHER RESEARCH EXPERIENCE	<ul style="list-style-type: none"> <li>• <i>April 2015 - May 2016</i>: Worked on Masters' Thesis on <i>Gauge Coupling Unification in Particle Physics</i> under supervision of Prof. Tirtha Sankar Ray at Indian Institute of Technology Kharagpur, India.</li> <li>• <i>January 2017 - May 2017</i>: Worked as Project Linked Person on <i>Dark Matter and Inflation</i> under supervision of Dr. Arindam Chatterjee at Indian Statistical Institute Kolkata, India.</li> </ul>
AWARDS AND ACHIEVEMENTS	<ul style="list-style-type: none"> <li>• <i>Allen M. Goldman Fellowship</i>, School of Physics and Astronomy, University of Minnesota Twin Cities, 2021.</li> <li>• <i>Outstanding Teaching Assistant Award</i> by School of Physics and Astronomy, University of Minnesota Twin Cities, 2018.</li> <li>• <i>Certificate for Outstanding Teaching</i> by Center of Educational Innovation, University of Minnesota Twin Cities, Spring 2018 and Spring 2019.</li> <li>• <i>Proficiency Award for Best Masters' Thesis</i> of Department of Physics, IIT Kharagpur in the session 2015-2016.</li> <li>• <i>5-year INSPIRE Scholarship for Higher Education</i> by Department of Science and Technology, Govt. of India, 2011.</li> <li>• <i>Lectureship and Junior Research Fellowship</i> awarded by the Council of Scientific and Industrial Research and University Grants Commission, Govt. of India, 2015.</li> </ul>
CONFERENCES AND TALKS	<ul style="list-style-type: none"> <li>• Contributed talk at BUFFALO Collaboration (Online) Meeting, 2021.</li> <li>• Contributed talk at European Astronomical Society (EAS) Annual Meeting, 2021.</li> </ul>
LIST OF PUBLICATIONS	<ol style="list-style-type: none"> <li>1. <b>Agniva Ghosh</b>, Liliya L. R. Williams and Jori Liesenborgs. <i>Free-form GRALE lens inversion of galaxy clusters with up to 1000 multiple images</i>, 2020, <a href="#">MNRAS</a>, <b>494</b>, 3998.</li> <li>2. <b>Agniva Ghosh</b>, Liliya L. R. Williams, and Jori Liesenborgs. <i>Further support for a trio of mass-to-light deviations in Abell 370: free-form GRALE lens inversion using BUFFALO strong lensing data</i>. <i>MNRAS</i>, in press, <a href="#">arXiv:2104.11781</a>.</li> <li>3. Ashish Kumar Meena, <b>Agniva Ghosh</b>, Jasjeet S. Bagla and Liliya L. R. Williams. <i>Exotic Image Formation in Strong Gravitational Lensing by Clusters of Galaxies - II: Uncertainties</i>, <i>MNRAS</i>, in press, <a href="#">arXiv:2103.13617</a>.</li> </ol>