

CURRENT AFFILIATION	<b>Physics and Astronomy Graduate Student</b> School of Physics & Astronomy, University of Minnesota Twin Cities, MN 55455, USA
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EDUCATION	<b>Doctorate of Philosophy (Ph.D.)</b> in Physics, August 2017-Present <ul style="list-style-type: none"> <li><a href="#">University of Minnesota Twin Cities</a>, USA</li> <li>Advisor: Prof. Liliya Williams</li> </ul> <b>Master of Science (M.Sc.)</b> in Physics, July 2014-July 2016 <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> <b>Bachelor of Science (B.Sc.)</b> with Honors in Physics, June 2011-July 2014 <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	Theoretical Cosmology and Extragalactic Astrophysics: Gravitational Lensing in Galaxies and Clusters of Galaxies and Dark Matter.
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>, School of Physics and Astronomy, University of Minnesota Twin Cities, 2018.</li> <li><i>Certificate for Outstanding Teaching</i>, 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>, Department of Science and Technology, Govt. of India, 2011.</li> <li><i>Lectureship and Junior Research Fellowship</i>, 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>Invited talk at <i>International Space Science Institute (ISSI) Workshop on Strong Gravitational Lensing</i> in Bern, Switzerland, July 2022.</li> <li>Contributed talk at <i>BUFFALO Collaboration (Online) Meeting</i>, July 2021.</li> <li>Contributed talk at <i>European Astronomical Society (EAS) Annual Meeting</i>, July 2021.</li> </ul>
LIST OF PUBLICATIONS	<ol style="list-style-type: none"> <li><b>Agniva Ghosh</b>, Dominic Adams, Liliya L.R. Williams, Jori Liesenborgs, Anahita Alavi and Claudia Scarlata, <i>An excursion into the core of the cluster lens Abell 1689</i>, 2022, MNRAS, in review.</li> <li><b>Agniva Ghosh</b>, Liliya L. R. Williams, Jori Liesenborgs, Ana Acebron, Mathilde Jauzac, Anton M. Koekemoer, Guillaume Mahler, Anna Niemiec, Charles Steinhardt, Andreas L. Faisst, David Lagattuta and Priyamvada Natarajan, <i>Further support for a trio of mass-</i></li> </ol>

*to-light deviations in Abell 370: free-form GRALE lens inversion using BUFFALO strong lensing data*, 2021, [MNRAS](#), 506, 6144 .

3. **Agniva Ghosh**, Liliya L. R. Williams and Jori Liesenborgs, *Free-form GRALE lens inversion of galaxy clusters with up to 1000 multiple images*, 2020, [MNRAS](#), 494, 3998.
4. Ashish Kumar Meena, **Agniva Ghosh**, Jasjeet S. Bagla and Liliya L. R. Williams, *Exotic Image Formation in Strong Gravitational Lensing by Clusters of Galaxies - II: Uncertainties*, 2021, [MNRAS](#), 506, 1526.
5. Kekoa Lasko, Liliya L. R. Williams, and **Agniva Ghosh**, *Model-Free Estimation of Cluster-Lens Properties: Center, Ellipticity, and Substructure*, 2022, MNRAS, in review.