

CURRENT AFFILIATION	<p>Physics Graduate Student and Teaching Assistant School of Physics & 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: ghosh116@umn.edu</p>
EDUCATION	<p>Doctorate of Philosophy (Ph.D.) in Physics, August 2017-Present</p> <ul style="list-style-type: none"> • University of Minnesota Twin Cities, USA • Advisor: Prof. Liliya L. R. Williams <p>Master of Science (M.Sc.) in Physics, July 2014-July 2016</p> <ul style="list-style-type: none"> • Indian Institute of Technology Kharagpur, India • Masters' Thesis Advisor: Prof. Tirtha Sankar Ray <p>Bachelor of Science (B.Sc.) with Honors in Physics, June 2011-July 2014</p> <ul style="list-style-type: none"> • Serampore College (affiliated to University of Calcutta, India)
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"> • <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. • <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.
AWARDS AND ACHIEVEMENTS	<ul style="list-style-type: none"> • <i>Allen M. Goldman Fellowship</i>, School of Physics and Astronomy, University of Minnesota Twin Cities, 2021. • <i>Outstanding Teaching Assistant Award</i> by School of Physics and Astronomy, University of Minnesota Twin Cities, 2018. • <i>Certificate for Outstanding Teaching</i> by Center of Educational Innovation, University of Minnesota Twin Cities, Spring 2018 and Spring 2019. • <i>Proficiency Award for Best Masters' Thesis</i> of Department of Physics, IIT Kharagpur in the session 2015-2016. • <i>5-year INSPIRE Scholarship for Higher Education</i> by Department of Science and Technology, Govt. of India, 2011. • <i>Lectureship and Junior Research Fellowship</i> awarded by the Council of Scientific and Industrial Research and University Grants Commission, Govt. of India, 2015.
CONFERENCES AND TALKS	<ul style="list-style-type: none"> • Contributed talk at BUFFALO Collaboration (Online) Meeting, 2021. • Contributed talk at European Astronomical Society (EAS) Annual Meeting, 2021.
LIST OF PUBLICATIONS	<ol style="list-style-type: none"> 1. Agniva Ghosh, 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-to-light deviations in Abell 370: free-form GRALE lens inversion using BUFFALO strong lensing data</i>, 2021, MNRAS, in press, arXiv:2104.11781. 2. Ashish Kumar Meena, Agniva Ghosh, Jasjeet S. Bagla and Liliya L. R. Williams, <i>Exotic Image Formation in Strong Gravitational Lensing by Clusters of Galaxies - II: Uncertainties</i>, 2021, MNRAS, 506, 1526. 3. Agniva Ghosh, Liliya L. R. Williams and Jori Liesenborgs, <i>Free-form GRALE lens inversion of galaxy clusters with up to 1000 multiple images</i>, 2020, MNRAS, 494, 3998.