AGNIVA GHOSH

Curriculum vitae

Current Position

Physics Graduate Student and Teaching Assistant
School of Physics & Astronomy, University of Minnesota Twin Cities
116 Church Street SE, Minneapolis, MN 55455, USA

Contact Information

Office: TATE 201-02, 116 Church St SE, Minneapolis, MN 55455, USA
Email: ghosh116@umn.edu

Education

Doctorate of Philosophy (Ph.D.) in Physics, August 2017-Present
- University of Minnesota Twin Cities, USA
- Advisor: Prof. Liliya L. R. Williams

Master of Science (M.Sc.) in Physics, July 2014-July 2016
- Indian Institute of Technology Kharagpur, India
- Masters' Thesis Advisor: Prof. Tirtha Sankar Ray

Bachelor of Science (B.Sc.) with Honors in Physics, June 2011-July 2014
- Serampore College (affiliated to University of Calcutta, India)

Research Interests

Theoretical Cosmology and Extragalactic Astrophysics: Gravitational Lensing in Cluster of Galaxies and Dark Matter.

Other Research Experience

- **April 2016-May 2017:** Worked on Masters' Thesis in Gauge Coupling Unification in Particle Physics under supervision of Prof. Tirtha Sankar Ray at Indian Institute of Technology Kharagpur, India.
- **January 2017- May 2017:** Worked as Project Linked Person on Dark Matter and Inflation under supervision of Dr. Arindam Chatterjee at Indian Statistical Institute Kolkata, India.

Awards and Achievements

- Outstanding Teaching Assistant Award by School of Physics and Astronomy, University of Minnesota Twin Cities, 2018.
- Certificate for Outstanding teaching by Center of Educational Innovation, University of Minnesota Twin Cities, Spring 2018 and Spring 2019.
- Proficiency Award for Best Masters' Thesis of Department of Physics, IIT Kharagpur in the session 2015-2016.
- 5-year INSPIRE Scholarship for Higher Education by Department of Science and Technology, Govt. of India, 2011.
- Lectureship and Junior Research Fellowship awarded by the Council of Scientific and Industrial Research and University Grants Commission, Govt. of India, 2015.

Publications

- Ghosh A., Williams L. L. R. and Liesenborgs J.,*Free-form* Grale *lens reconstruction of galaxy clusters with up to 1000 multiple images*, 2020, MNRAS, DOI: 10.1093/mnras/staa962