

# Prachi Garella

## CONTACT INFORMATION

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EDUCATION	<b>University of Houston</b> , College of Natural Sciences and Mathematics, Tx, USA. 2022–Present <ul style="list-style-type: none"><li>• PhD Candidate in the Theoretical Nuclear Physics Group. Advisor: Prof. Claudia Ratti</li></ul>
	<b>Durham University</b> , Ustinov College, Durham, UK. 2018–2019 <ul style="list-style-type: none"><li>• Postgraduation in <b>Particles, Strings and Cosmology</b>, Result: <b>Pass</b></li></ul>
	<b>Amity University Noida</b> , India. 2015–2018 <ul style="list-style-type: none"><li>• B.Sc(Honours) – Physics. Result: <b>First Division</b> CGPA: <b>6.82/10</b></li></ul>
	<b>Cambridge School, Srinivaspuri</b> , New Delhi, India. 2015–2018 <ul style="list-style-type: none"><li>• Higher Secondary (Major–Science) Result: <b>First Division</b> Percentile : <b>80.75</b></li></ul>
RESEARCH EXPERIENCE	<ul style="list-style-type: none"><li>• <b>Holographic Equation of State for QCD.</b> Present Advisor: Prof. Claudia Ratti, <i>University of Houston, USA.</i></li><li>• <b>Consistent Metric Fluctuations in <math>AdS_6/CFT_5</math>.</b> June 2021–January 2022 Advisor: Prof. Carlos Nunez, <i>University of Swansea, UK.</i></li><li>• <b>Computation of the Hilbert Series for the Coulomb branch of <math>3d\ N=4</math> <math>U(1)</math> gauge theory with <math>n</math> flavors and quiver <math>[1] - 1 - 1 - [1]</math> (framed <math>A_2</math>).</b> June–July 2021 Advisor: Prof. Amihay Hanany, <i>Imperial College London, UK.</i></li><li>• <b>Postgraduate Thesis: String Inflation and An Introduction to The String Swampland</b> 2018–2019 Advisor: Prof. Ruth Gregory, <i>Durham University, UK</i></li><li>• <b>Undergraduate Project:</b><ul style="list-style-type: none"><li>◦ <b>Curved Spacetime and Introduction to General Theory of Relativity.</b> 2017–2018 <i>Inter University Center for Astrophysics and Astronomy, Pune, India..</i></li><li>◦ <b>Search for Extraterrestrial Intelligence in Interstellar Space.</b> 2017 <i>Department of Astronomy and Astrophysics, Amity University Noida, India.</i></li><li>◦ <b>Multiverse, a consequence of Cosmic Inflation.</b> 2016 <i>Department of Astronomy and Astrophysics, Amity University Noida, India.</i></li></ul></li></ul>
ADDITIONAL COURSES/ SUMMER SCHOOL	<ul style="list-style-type: none"><li>• <b>Nuclear Physics from Multi-Messenger Mergers Summer School.</b> June 2025 <i>Indiana University, Indian, USA.</i></li><li>• <b>101 Introduction to Cluster Computing.</b> August–October 2023 <i>University of Houston's Hewlett Packard Enterprise Data Science Institute (HPE DSI).</i></li><li>• <b>Qiskit Global Summer School 2023.</b> July–August 2023 <i>IBM Quantum.</i></li><li>• <b>Dualities in Topology and Algebra.</b> 01–13 February 2021 <i>International Centre for Theoretical Sciences, TIFR.</i></li><li>• <b>Kavli Asian Winter School on Strings, Particles and Cosmology.</b> 10–23 January 2022 <i>International Centre for Theoretical Sciences, TIFR.</i></li></ul>

	<ul style="list-style-type: none"> <li>• <b>Nonperturbative and Numerical Approaches to Quantum Gravity, String Theory and Holography.</b> 18–22 January 2021 <i>International Centre for Theoretical Sciences, TIFR.</i></li> </ul>
	<ul style="list-style-type: none"> <li>• <b>Long Term Data Sets for Understanding of Solar and Stellar Magnetic Cycles.</b> 2018 <i>International Astronomical Union Symposium, Jaipur, India.</i></li> </ul>
	<ul style="list-style-type: none"> <li>• <b>All India Asteroid Search Campaign.</b> 2016 Advisor: Dr. Patrick Miller, <i>Hardin-Simmons University, Texas, USA.</i></li> </ul>
TEACHING/ LEADERSHIP EXPERIENCE	<ul style="list-style-type: none"> <li>• <b>APS Student Ambassador</b> 2025–2026</li> <li>• <b>Women in Physics Society, APS Chapter President</b> 2023–2025</li> <li>• <b>Women in Physics Society, APS Chapter Social Media Manager</b> 2022–2023</li> <li>• <b>Lead Teaching Assistant</b> 2022–2024</li> <li>• <b>University Physics II: Teaching Assistant</b> 2023</li> <li>• <b>Undergraduate Classical Mechanics (Physics 1101): Teaching Assistant</b> 2022</li> </ul>
TECHNICAL SKILLS	<ul style="list-style-type: none"> <li>• <i>Programming Languages:</i> C/C++, Html, Python.</li> <li>• <i>Technical Softwares:</i> L<sup>A</sup>T<sub>E</sub>X, MATLAB, Mathematica, Queuing Systems Cluster Architecture, Final Cut Pro.</li> </ul>
GRANTS AND FELLOWSHIPS	<ul style="list-style-type: none"> <li>• Recieved the <b>Cullen Graduate Travel Fellowship 2025.</b></li> <li>• Recieved the <b>2025 Underrepresented Minority Travel Award</b></li> </ul>
CONFERENCES	<ul style="list-style-type: none"> <li>• Gave a talk in one of the parallel sessions at the <b>APS Global Physics Summit 2025.</b></li> <li>• Gave a talk in one of the parallel sessions at the <b>Texas Section of the APS Meeting 2025</b></li> </ul>
ACHIEVEMENTS	<ul style="list-style-type: none"> <li>• <b>Winner</b> of the Best Presentation Award at the <b>Houston APS Space City Symposium 2025.</b></li> <li>• <b>Winner</b> of the Best Presentation Award in the High Energy Session at the <b>University of Hosuton Research Day.</b></li> <li>• <b>Winner</b> of the Public Choice Award at the <b>NSM Three Minute Thesis 2024.</b></li> </ul>
SCIENCE COM- MUNICATION	<ul style="list-style-type: none"> <li>• Podcast: <a href="#">The Knowmads Podcast</a></li> <li>• Social Media Content Creator with over 95K followers on Instagram</li> <li>• YouTube Channel: <a href="#">Prachi Garella</a></li> </ul>
COMMUNITY OUTREACH	<ul style="list-style-type: none"> <li>• Volunteered during <i>COVID-19 Pandemic</i> in the distribution of supplies to the underprivileged.</li> <li>• Volunteer at the <i>Sanjay Gandhi Animal Health Care Center.</i></li> <li>• Volunteer Educator at the Slums of New Delhi.</li> <li>• Volunteer at <i>Samarpan: Association for advancement of the deprived.</i></li> </ul>