## Prachi Garella

Contact Information

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Education	<b>University of Houston</b> , College of Natural Sciences and Mathematics, Tx	, USA. 2022–Present	
	• PhD Candidate in the theoretical particle physics group. Advisor: Prof. Claudia Ratti		
	Durham University, Ustinov College, Durham, UK.	2018 - 2019	
	$\bullet$ Postgraduation in Particles, Strings and Cosmology, Result: ${\bf Pass}$		
	Amity University Noida, India.	2015–2018	
	• B.Sc(Honours) – Physics. Result: First Division CGPA: 6.82/10		
	Cambridge School, Srinivaspuri, New Delhi, India.	2015 - 2018	
	• Higher Secondary (Major–Science) Result: First Division Percentile	: 80.75	
Additional Courses	• 101 Introduction to Cluster Computing. University of Houston's Hewlett Packard Enterprise Data Science Insti	August–October 2023 <i>itute (HPE DSI)</i> .	
	• Qiskit Global Summer School 2023. IBM Quantum.	July–August 2023	
	• Dualities in Topology and Algebra. International Centre for Theoretical Sciences, TIFR.	01–13 February 2021	
	• Kavli Asian Winter School on Strings, Particles and Cosmology. 10–23 January 2022 International Centre for Theoretical Sciences, TIFR.		
	• Nonperturbative and Numerical Approaches to Quantum Gr and Holography. International Centre for Theoretical Sciences, TIFR.	cavity, String Theory 18–22 January 2021	
Research Experience	• The SYK Model, Conformal Field Theory. Advisor: Prof. Carlos Ordòñez, University of Houston, USA.	Present	
	• Consistent Metric Fluctuations in $AdS_6/CFT_5$ . Advisor: Prof. Carlos Nunez, University of Swansea, UK.	June 2021–January 2022	
	<ul> <li>Computation of the Hilbert Series for the Coulomb branch of U(1) gauge theory with n flavors and quiver [1] - 1 - 1 - [1] (framed A<sub>2</sub>).</li> <li>Advisor: Prof. Amihay Hanany, Imperial College London, UK.</li> </ul>	3d N = 4 June–July 2021	
	• Postgraduate Thesis: String Inflation and An Introduction to The String Swamplar Advisor: Prof. Ruth Gregory, Durham University and King's College I		
	• Summer School: Long Term Data Sets for Understanding of Solar and Stellar Magnetic Cycles. International Astronomical Union Symposium, Jaipur, India.	2018	
	• Undergraduate Project:		
	• Curved Spacetime and Introduction to General Theory of Inter University Center for Astrophysics and Astronomy, Pune, Ind		
	• Search for Extraterrestrial Intelligence in Interstellar Spac Department of Astronomy and Astrophysics, Amity University Noi		

	• Multiverse, a consequence of Cosmic Inflation. Department of Astronomy and Astrophysics, Amity University Noida, India.	2016	
	• All India Asteroid Search Campaign. Advisor: Dr. Patrick Miller, <i>Hardin-Simmons University, Texas, USA</i> .	2016	
Teaching Experience	• Lead Teaching Assistant	2022–Present	
	• Physics 2326: University Physics II	2023	
	• Physics 1101: Undergraduate Classical Mechanics	2022	
Technical Skills	• Programming Languages: C/C++, Html.		
	- Technical Softwares: ${\rm IAT}_{\rm E}{\rm X},$ MATLAB, Mathematica, Queuing Systems Cluster Final Cut Pro.	Architecture,	
Public Talks	• Open problems in Theoretical Physics Amity University Noida, India.	2021	
	• On the Foundations of Quantum Mechanics. Christ University, Bangalore, India.	2020	
	• Gravitational Waves and Blackholes. Beyond portals Head Quarters, New Delhi, India.	2018	
Achievements	• Discovered two Provisional Asteroids in International Asteroid Search Campaign.		
	• Discovered 33 Preliminary Asteroids with International Astronomical Search Collaboration and Pan-STARRS, Hawai, USA.		
	• Successfully passed various National Science Olympiads.		
	• Secured first position in the 'Prove that it cannot be Proved' competition at <i>Amity University</i> Noida.		
	• Secured first position in explaining Hawking Radiation at Science Club Amity Unit	versity Noida.	
	• Successfully passed National Problem solving Assessment.		
Extra- Curricular	• Social Media content creator		
	• YouTube Channel: Prachi Garella		
	• Podcast: The Knowmads Podcast		
Community Outreach	• Volunteered during COVID-19 Pandemic in the distribution of supplies to the un	derprivileged.	
	• Volunteer at the Sanjay Gandhi Animal Health Care Center.		
	• Volunteer Educator at the Slums of New Delhi.		
	• Volunteer at Samarpan: Association for advancement of the deprived.		
SCIENCE COM-	Co-founder of ' <i>Beyond Portals</i> ', an organisation to popularise various developments in various platforms. As a part of which weekly Theoretical Physics seminars are held at C physicists from all around the world.		