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08/2021	PhD in Gravitational Waves Astrophysics University of Zurich Advisor: Prof. E	Pr. Lucio Mayer
09/2018	Master of Science in Physics with distinction 12/2020 ETH Zurich Advisor: Prof. Dr. Lav. Relativistic, ghost-free, and covariant hybrid model for MOND	0
07/2014 – 06/2018 Bachelor of Technology in Engineering Physics IIT Delhi Advisor: Geodesics near a charged black hole in $\left(R \pm \mu^4/R\right)$ graving		GPA: 8.15/10 . Dr. Ajit Kumar
SELECTED	Talks/Presentations	
10/2024	CTC Theory Seminar University of Maryland TBD^{\dagger}	College Park
09/2024	Astro Coffee Princeton University TBD^{\dagger}	Princeton
09/2024	Astro Seminar Columbia University TBD^{\dagger}	NYC
09/2024	Monday Afternoon Talks MIT Kavli Institute for Astrophysics and Space Research TBD^{\dagger}	Boston
09/2024	Meeting: The Swiss Physical Society ETH Zurich TBD^{\dagger}	Zurich
08/2024	Conference (Invited): New ideas on the origin of BH mergers Niels Bohr Institute <i>Astrophysical signatures on the LISA data stream from MBHBs</i>	Copenhagen
07/2024	15 th LISA Symposium University College Dublin Poster: Astrophysical signatures on the LISA data stream from MBHBs	Dublin
06/2024	Seminar: GRAPPA University of Amsterdam Astrophysical signatures on the LISA data stream from MBHBs	Amsterdam
06/2024	LISA community Call Measuring eccentricity and gas from GWs of LISA MBHBs	Online
05/2024	Seminar: MPA Cosmology Max Planck institute for Astrophysics Astrophysical signatures on GWs from LISA MBHBs	Garching
02/2024	Seminar: DAMTP General Relativity University of Cambridge Astrophysical signatures on the LISA data stream from MBHBs	Cambridge

09/2023	Meeting: LISA Astrophysics Working Group University of Milano-Bicocca <i>The minimum measurable eccentricity from GWs of LISA MBHBs</i>			
09/2023	Meeting: The Swiss-Austrian joint Physical Society University of Basel The minimum measurable eccentricity from GWs of LISA MBHBs			
07/2023	Conference: Gravitational-wave populations: what's next? University of Milano-Bicocca The measurability of gas and eccentricity from GWs of LISA MBHBs			
07/2023	Call: LISA data challenge working group Only Measuring eccentricity from GWs of LISA MBHBs			
11/2022	Conference: LISA data analysis: classical methods to machine learning CNRS, L2IT, APC, CEA, and CNES The imprint of Gas on GWs from LISA IMBH Binaries Toulous			
09/2022	Conference: Origin, growth and feedback of black holes in dwarf galaxies Donostia International Physics Center San Sebastian The imprint of Gas on GWs from LISA IMBH Binaries			
05/2022	Conference: IMBHs: New Science from Stellar Evolution to Cosmolog CIERA, Northwestern University Gas impact on GWs from LISA IMBH Binaries	gy San Juan		
03/2023	Annual PhD seminar Department of Astrophysics, University of General Relativity using Gravitational Waves Bayesed Gravitational Waves: an MCMC story The Future of Gravitational Waves	sity of Zurich		
† Will parti	cipate			
Research	VISITS			
09/2024	Center for Computational Astrophysics <i>Host: Dr. Yan-Fei Jiang</i> [†]	NYC		
02/2024	Institute of Gravitational Wave Astronomy Host: Prof. Dr. Alberto Vecchio	Birmingham		
02/2024	Institute of Cosmology and Gravitation Host: Prof. Dr. Ian Harry	Portsmouth		
11/2023	Max Planck institute for Gravitational Physics (Albert Einstein Inst Host: Dr. Jonathan Gair	itute) Potsdam		
† Will parti	cipate			
Programs	s/Schools			
09/2024	Workshop : Fundamental Physics Meets Waveforms With LISA <i>Max Planck institute for Gravitational Physics (Albert Einstein Institute)</i>	Potsdam		
09/2023	Kavli-Villum School: Gravitational Waves Corfu Summer Institute	Corfu		

11/2022	Workshop: LISA data analysis: classical methods to machine learning CNRS, L2IT, APC, CEA, and CNES	Toulouse
07/2022	Workshop: LISA Data Challenge Workshop LISA Data Challenge Working Group	Online
07/2022	Workshop: From Scattering Amplitudes to GW Predictions for Comp ETH Zurich & University of Zurich	act Binaries Zurich
06/2022	Meeting: LISA Astrophysics Working Group Institute for Gravitational Wave Astronomy, University of Birmingham	Online
01/2022	Saas-Fee School: Compact-Object Astrophysics in the Era of Multi-M tronomy <i>Swiss Society for Astrophysics and Astronomy</i>	essenger As- Saas-Fee
08/2021	NBIA School: Gravitational wave astrophysics Niels Bohr Institute, University of Copenhagen	Copenhagen

† Will participate

Professional responsibilities and memberships

2023 – Organizer of the 'GWs, BHs, and Compact Binaries' seminar Department of Astrophysics, University of Zurich
2023 – Contributor to the TianQin white paper Computed the gas-induced dephasing for intermediate-mass inspirals
2022 – Contributor to the LISA DiscIMRI code comparison project Tasks: Literature review, plot making, and text writing
2021 – Member of the LISA consortium and its astrophysics, waveforms, and data challeng working groups
2021 – \mid Teaching assistant for several astrophysics courses at the University of Zurich
2021 Research assistant at the Department of Astrophysics, University of Zurich
Skills

 Programming Languages:
 Python | LaTeX
 Software:
 Mathematica | lisabeta

Languages: English | German (A1.1) | Hindi Others: PyTorch | Terminal | Git

Other Activities

• Hobbies and Interests: Outdoor activities, board and video games, and swimming

Last update: September 5, 2024