Contact Information	Zygmunta Krasinskiego 117/3, 87-100 Torún, Poland ksen@umk.pl	+48~516~532~225 senkoushik 1995@gmail.com	
Research Interests	Stellar Astrophysics: Massive binary and stellar evolution, internal mixing processes, stellar winds, radiation magneto-hydrodynamics, star cluster evolution High Energy Astrophysics: high mass X-ray binaries, compact object binaries, gravitational waves, stripped-envelope supernovae, supernova remnants		
Education	Argelander Institute for Astronomy, Bonn, Germ	hany	
	Ph.D., Astronomy and Astrophysics, September 27	2022	
	<ul> <li>Grade: Magna cum Laude</li> <li>Thesis Topic: Evolution of short-period massiv Clouds</li> <li>Advisor: Prof. Dr. Norbert Langer</li> </ul>	e binaries in the Magellanic	
	Indian Institute of Technology, Kharagpur, West Bengal, India		
	B.Sc. and M.Sc., Physics, July 2018		
	<ul> <li>GPA: 9.65/10</li> <li>Masters thesis Topic: Modelling and evolution of Advisor: Prof. Somnath Bharadwaj, Head of Celling</li> </ul>	of supernova remnants enter for Theoretical Studies.	
	Sri Aurobindo Institute of Education, Kolkata, India		
	High School, I.S.C., Mathematics, Physics, Chemistry and English, June 2013		
	<ul><li>Percentage marks: 95.25%</li><li>IIT JEE: All India Rank: 4958.</li></ul>		
Standardised tests	<ul> <li>GRE General: Score - 332/340; Year - 2017</li> <li>GRE Physics: Score - 980/990; Year - 2017</li> <li>TOEFL iBT: Score - 108/120; Year -2017</li> </ul>		
Research Experience - Undergraduate	<ul> <li>Topic: Laser transmission through fibre at low we Laser Spectroscopy Group, Max Planck Institute for Quantum Optics, Garchin Supervisor: Thomas Udem; in the group of Prof. T. Topic: Short-term variability in magnetized mathematical magnetosonic waves. Astronomy and Astrophysics Division, University of Alberta, Edmonton, Canada Supervisor: Rodrigo Fernandez, Assistant Professon Topic: The cooling zones of shocks in the winds Astronomy and Astrophysics Division, University Observatory Munich, Ludwig Maximilian Supervisor: Joachim Puls, Professor Topic: Encoding information in the phases of que Physical Sciences Division, Indian Institute of Science, Education and Research Supervisor: Prasanta K. Panigrahi, Director Topic: Chaotic Oscillations of a current carrying Plasma Physics Division, Supervisor: A N. Sekar Ivengar Senior Professor</li> </ul>	<ul> <li>wavelength (UV) range May 2018 to July 2018</li> <li>ag, Germany</li> <li>W. Haensch</li> <li>assive stars: contribution May 2017 to July 2017</li> <li>c</li> <li>of massive stars. May 2016 to July 2016</li> <li>University, Munich, Germany</li> <li>bits.</li> <li>2014, May 2015 to July 2015</li> <li>a, Kolkata, Kalyani, India</li> <li>g coil in a magnetic field. May 2014 to July 2014</li> </ul>	

Awards	<ul> <li>Travel Grants - International</li> <li>APS Distinguished Student (DS) Program</li> <li>University of Alberta Research Experience (UARE) Scholarship, Canada</li> <li>DAAD WISE Scholarship, Germany</li> </ul>	2018 2017 2016
	<ul> <li>Graduation - IIT Kharagpur</li> <li>Institute Silver Medal</li> <li>Nilanjan Ganguly Memorial Award, Kedarnath Singh Memorial Award</li> <li>H.N. Bose Memorial Award, G.B. Mitra Award</li> </ul>	2018
	Undergraduate National Fellowships - India2013• National Initiative on Undergraduate Sciences (NIUS) Fellow2013• Inspire Fellow, Dept. of Science and Technology, India2013	-2014 -2018
Presentations	<ul> <li>Invited talks</li> <li>Inter-University Centre for Astronomy and Astrophysics - "Massive Algols as whetstones for binary star evolution towards GW sou Weekly seminar of the Institute - October 26,</li> <li>Tata Institute for Fundamental Research - "Observable properties of mainteracting binaries on the main sequence." Weekly seminar of the Depart of Astronomy and Astrophysics - October 10,</li> <li>Indian Institute of Technology, Kharagpur - "Observable properties of ma Algol binaries." Department of Physics - October 3,</li> <li>Jageillonian University, Kraków - "Evolution of short-period massive binary in the Magellanic Clouds." Astrophysics seminar of the Faculty of Ph Astronomy and Applied Computer Science - April 5,</li> <li>Institute of Astronomy, Nicolaus Copernicus University, Torún - "Evoluti short-period massive binary stars in the Magellanic Clouds." Seminar of Faculty of Physics, Astronomy and Informatics - October 10,</li> <li>Contributed talks</li> <li>3,2,1: Massive Triples, Binaries and Mergers - KU Leuven - "Observable consequences of interactions in massive main sequence binaries." July 18,</li> <li>Annual meeting of the European Astronomical Society - Krakow - "Re Algols and hydrogen-rich Wolf-Rayet stars from massive binary evolution." 11, 2023</li> <li>The Wolf-Rayet phenomenon in the Universe - Mexico - "Hydrogen-rich Rayet stars from very massive binaries." June 19,</li> <li>AG 2022: "Nuclear-timescale reverse Algol evolution and hydrogen-rich Rayet stars from very massive binaries." September 15,</li> <li>MpA-NBIA Gravitational Wave Astrophysics Workshop, Garching - "Dom ordels of interacting short-period massive binaries expected to descend the observed galactic WR + O binaries." September 15,</li> <li>AG 2020: "Case A mass transfer: A comprehensive study of their obser stellar properties." September 14,</li> <li>APS April Meeting - "Variability in the winds from magnetized massive effect of unstable magnetosonic modes." April 15,</li> </ul>	rces." 2023 assive 2023 assive 2023 stars 2023 stars 2023 of the 2022 2023 everse July Wolf- 2022 Wolf- 2022 bject 2021 tailed 2021 from 2021 stars: 2023 stars 2021 stars 2021 star 2021 star 2021 star 2021 star 2021 star 2021 star 2021 star 2
Teaching Experience	<ol> <li>Tutor, Masters courses in University of Bonn         <ul> <li>Stellar Nucleosynthesis</li> <li>Summer semester Instructor: Norbert Langer, Argelander Institute for Astronomy</li> <li>Stellar Structure and Evolution</li> <li>Winter semester Instructor: Norbert Langer, Argelander Institute for Astronomy</li> <li>Programming in Python</li> <li>Summer semester Instructor: Thomas Erben, Argelander Institute for Astronomy</li> </ul> </li> </ol>	· 2021 · 2020 · 2020