

Sai Krishna Teja Kanumalla

CONTACT INFORMATION	Arizona State University School of Earth and Space Exploration PO Box 876004, Room 644 Tempe, AZ 85287-8809 USA	<i>E-mail:</i> skanuma1@asu.edu <i>Github:</i> www.github.com/krsna336 <i>LinkedIn:</i> www.linkedin.com/in/krsna336/
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EDUCATION	Arizona State University , Tempe, AZ, USA	
	Ph.D., Astrophysics	August 2022 - June 2027
	<ul style="list-style-type: none">Thesis topic: <i>3-dimensional characterization of compositions of exoplanetary atmospheres using ground and spaced-based observatories</i>Advisor: Professor Michael R. Line	
	University of Amsterdam , Amsterdam, Netherlands	
	M.Sc., Physics and Astronomy	September 2020 - July 2022
	<ul style="list-style-type: none">joint-degree awarded along with the <i>Vrije Universiteit (VU) Amsterdam</i>Thesis: <i>Tracing the atmospheric mass-loss in exoplanets using He 1083 nm observations</i>Advisor: Professor Antonija Oklopčić	
	National Institute of Technology , Calicut, India	
	B.Tech., Engineering Physics	July 2016 - June 2020
	<ul style="list-style-type: none"><i>First-class with distinction</i>Thesis: <i>Correlations of X-ray and Optical properties of globular clusters in the Andromeda galaxy</i>Advisors: Professor Ravikumar C.D. , Professor Ravi Varma M.K.	
RESEARCH EXPERIENCE	Modelling	
	<ul style="list-style-type: none">Masters thesis - Developed a 3D atmosphere model to obtain constraints of the mass loss of WASP-69b using CARMENES spectrograph observationsUsed statistical models to characterize the time variability of the X-ray data of Cygnus-X1 from <i>ROSAT</i> satellite using statistical models	
	Observing	
	<ul style="list-style-type: none">Retrofitted a slitless spectrograph to a 12cm refractor telescope at the Anton Pannekoek Observatory (APO) to search for transients in open cluster IC 4665	
	Data analysis	
	<ul style="list-style-type: none">Analyzed the <i>HERMES</i> spectrograph observations of two Wolf-Rayet binaries WR 128 and CQ Cep to estimate their orbital parametersBachelor's thesis: Correlations of X-ray and Optical properties of globular clusters in the Andromeda galaxy	

HONORS AND SCHOLARSHIPS	<p>Bharati merit scholarship, Government of Andhra Pradesh, India</p> <ul style="list-style-type: none"> Financial assistance awarded for academic performance during bachelor's education at the National Institute of Technology, Calicut 	October 2018
PRESENTATIONS AND INVITED TALKS	<ul style="list-style-type: none"> Atmospheric negative feedback cycles in the Archean atmosphere, Exoplanets and Disks meeting (EDM) at the University of Amsterdam, January 2022 Retrofitting FAST as a bistatic RADAR, Radio Astronomy Mock proposals symposium at the University of Amsterdam, May 2021 Quantisation of Maxwell's field, Weekly colloquium at the University of Calicut, January 2020 Public talk, Probing ISM with pulsars, Tathva cultural festival at the National Institute of Technology Calicut, November 2019 Morphological distribution of Galaxies, Undergraduate symposium at the National Institute of Technology Calicut, April 2019 	
SKILLS	<ul style="list-style-type: none"> Programming and Softwares <ul style="list-style-type: none"> Python (Professional working proficiency) MATLAB (Professional working proficiency) C (Limited working proficiency) Julia (Limited working proficiency) 	
TEACHING EXPERIENCE	<ul style="list-style-type: none"> Tutor at De Bijlesmeester Amsterdam <ul style="list-style-type: none"> Wiskunde A (Mathematics) Teaching assistant at the National Institute of Technology, India <ul style="list-style-type: none"> Statistical Mechanics (PH2006) Spring 2020 Classical Mechanics (PH2001) Fall 2019 Introduction to Quantum Physics (PH2005) Fall 2019 	January 2022 - June 2022
MEMBERSHIPS AND OUTREACH	<ul style="list-style-type: none"> Outreach committee member <ul style="list-style-type: none"> Anton Pannekoek Institute (API) for Astronomy, University of Amsterdam. Cygnus: Physics Association <ul style="list-style-type: none"> Student association for workshops on Physics and Astronomy at the National Institute of Technology, Calicut Founding member, Executive committee member Cosmic light workshop <ul style="list-style-type: none"> Workshop on introduction Astrophotography and post-processing techniques Public outreach event for the rural areas of Kerala state in India 	December 2020 – July 2022 January 2019 – January 2020 December 2019
AWARDS	<ul style="list-style-type: none"> Pre-final round runner-up, International Astrophysics & Astronomy competition State level runner-up, IKEN Scientifica Olympiad 	2019 2013