

Zhiwei Shao

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OBJECTIVE	To obtain a PhD degree in Astrophysics utilizing my demonstrated strengths in programming and problem-solving.		
EDUCATION	<i>Bachelor of Science</i> , School of Astronomy and Space Science Nanjing University, Nanjing, Jiangsu Province, China, expected June 2020 Overall GPA: 4.43/5.0, Major GPA: 4.50/5.0		
SKILLS	Proficient with Python and Linux Working knowledge of C++, MATLAB and Mathematica		
EXPERIENCE	Course Project - Plasma Code	Sep 2017 to Jan 2018	
	Advisor: Li Ji, Purple Mountain Observatory		
	<ul style="list-style-type: none">• Read relevant articles and offer theoretical support to the use of AtomDB and PyAtomDB.• Use AtomDB and PyAtomDB to do line diagnostics of SNR N132D and examine the reliability of the codes with R/G ratio of OVII triplets.		
	Early Research Project - Kilonova	Sep 2017 to Present	
	Advisor: Zi-Gao Dai, Nanjing University		
	<ul style="list-style-type: none">• Process the multi-band data of GW170817 to alleviate the influence of distinction and make it comparable with our simulated results.• Use MCMC method to determine the structure of the kilonova ejecta in GW170817 event (on going).		
HONORS & AWARDS	Internship - Numerical Cosmology	Jan 2019	
	Advisor: Liang Gao, National Astronomical Observatories of China		
	<ul style="list-style-type: none">• Illustrate satellites number density profiles in C-EAGLE results with different stellar mass limits and demonstrate their connections with the mass distribution of the cluster.• Compare number density profiles in C-EAGLE results with observation data to examine its accordance with real universe.		
	Internship - Numerical Cosmology	July 2019 - Aug 2019	
	Advisor: Arif Babul, University of Victoria		
	<ul style="list-style-type: none">• Build a Python package to systematically analyze the X-ray properties of halos, including luminosity, spectroscopic temperatures, entropy, etc.• Apply the analyzing codes to a series of PhEW simulations with different physical settings to investigate the differences caused by settings.		
HONORS & AWARDS	Member of Elite project	2016 - Present	
	Excellent student	2017	
	Elite project scholarship	2017	
	People's scholarship	2017 - 2018	
	Annual scholarship of NAOC, CAS	2018	