

Sal Wanying Fu

CONTACT INFORMATION	Email: wanying.fu@pomona.edu Website: http://swfu.github.io	
EDUCATION	B.A. Physics, Pomona College , Claremont, CA Overall GPA: 3.87	May 2019
RESEARCH INTERESTS	Dynamical modeling of the Milky Way and its satellites based on observed properties Cosmological context of MW dwarf galaxies and stellar populations	
RESEARCH EXPERIENCE	Observatories of the Carnegie Institution of Washington Undergraduate Research Fellow Advised by: Dr. Josh Simon, Dr. Gwen Rudie	Jun 2016-Sep 2018
	<i>The Origin and Classification of the Sgr II Satellite</i> Using optical spectroscopy to determine dark matter content and metallicity dispersion of Sgr II satellite. Modeling orbit of satellite to infer its possible origins.	Apr 2018-Present
	<i>The Origin of the 300 km/s Stream Near Segue 1</i> Identified new members of 300S stream in APOGEE-2 and SEGUE survey data. Used dynamical modeling techniques and chemical abundance analysis to infer the origin of the stellar stream. Work culminated in paper publication and poster presentation.	Jun 2017-Present
	<i>Chemical Abundances of UMi dSph in APOGEE</i> Identified systematic velocity variation in timeseries velocity data of very faint stars from the APOGEE-2 proto-DR14 reduction.	Jun 2016-Aug 2016
	Pomona College Department of Physics and Astronomy Undergraduate Research Assistant Advised by: Dr. Philip Choi	Jan 2016-May 2016
	<i>Search for NEO Objects using TMO</i> Conducted remote observing program using Pomona's 1-m Table Mountain Observatory to search for faint, near-earth objects.	Jan 2016-May 2016
PUBLICATIONS AND PRESENTATIONS	S. W. Fu , J. D. Simon, et al. <i>The Origin of the 300 km s⁻¹ Stream</i> W. Fu , J. D. Simon, et al. <i>Characterizing the 300 km/s Stream Near Segue 1</i> , Poster presentation at 231st AAS Meeting in Washington, D.C. W. Fu , J. D. Simon, et al. <i>A Study of Low-Metallicity Red Giant Stars in the Ursa Minor Dwarf Spheroidal Galaxy Using APOGEE Survey Data</i> , Poster Presentation at the 229th AAS Meeting in Grapevine, TX	
AWARDS	Goldwater Scholar Pomona College Scholar Tileston Physics Prize Moncrief Astronomy Prize	2018 Jun 2016-Present Jan 2018 Sep 2016

MENTORING EXPERIENCE	ASTR101: Observational Astronomy, Mentor & Lab TA,	Fall 2018
	ASTR51: Introductory Astronomy, Mentor	Spring 2018
	ASTR101: Observational Astronomy, Mentor & Lab TA	Fall 2017
	ASTR51: Introductory Astronomy, Mentor	Spring 2017
	PHYS70: Spacetime, Quanta and Entropy, Mentor & Lab TA	Fall 2016
	ASTR2: Galaxies and Cosmology, Lab TA	Spring 2016
LEADERSHIP AND ORGANIZATIONS	Physics Department Liaison	Jan 2016-Present
	ALPhA, Women in Physics Group	some time period