

Sal Wanying Fu

CONTACT INFORMATION	Email: swfu@berkeley.edu Website: http://swfu.github.io ORCID: https://orcid.org/0000-0003-2990-0830	
RESEARCH INTERESTS	Near-field cosmology, satellite galaxies, photometric metallicities, Galactic dynamics, stellar streams, stellar halos, chemical evolution, large surveys	
EDUCATION	Ph.D in Astrophysics, UC Berkeley , Berkeley, CA PD Soros Fellow, NSF Graduate Research Fellow & Cranor Fellow Advisor: Prof. Daniel R. Weisz	August 2019-present
	B.A. Physics, Pomona College , Claremont, CA Academic advisors: Prof. Jorge Moreno, Prof. Philip Choi Research advisors: Dr. Joshua D. Simon, Dr. Gwen C. Rudie Thesis: <i>Small-Scale Tests of ΛCDM Cosmology</i>	May 2019
RESEARCH APPOINTMENTS	Graduate Student Researcher , UC Berkeley	Aug 2019-Present
	Undergraduate Research Intern , Carnegie Observatories	June 2016-Aug 2019
	Undergraduate Research Assistant , Pomona College	Spring 2016
PUBLICATIONS	S. W. Fu , D. R. Weisz, et al. 2022. <i>Metallicity Distribution Functions of 13 Ultra-Faint Dwarf Galaxy Candidates from Hubble Space Telescope Narrowband Imaging</i> , in prep.	
	S. W. Fu , D. R. Weisz, et al. 2022. <i>Metallicity Distribution Function of the Eridanus II Ultra-faint Dwarf Galaxy from Hubble Space Telescope Narrowband Imaging</i> , ApJ, 925, 6	
	S. W. Fu , J. D. Simon, et al. 2019. <i>Dynamical Histories of the Crater II and Hercules Dwarf Galaxies</i> , ApJ, 883, 11	
	S. W. Fu , J. D. Simon, et al. 2018. <i>The Origin of the 300 km s^{-1} Stream Near Segue 1</i> , ApJ, 866, 42	
TALKS	S. W. Fu , D. R. Weisz, et al. August 2022. <i>Metallicity Distribution Functions of Local Group Dwarf Galaxies from Hubble Space Telescope Narrow-band Imaging</i> . Contributed talk to the Division H meeting at the 31st IAUGA in Busan, Republic of Korea.	
	S. W. Fu , D. R. Weisz, et al. July 2022. <i>Metallicity Distribution Functions of Local Group Dwarf Galaxies from Hubble Space Telescope Narrow-band Imaging</i> . Contributed talk to “A Comprehensive View of Galaxy Evolution from the Milky Way to I-Zwicky” in Sesto, Italy.	
	S. W. Fu , D. R. Weisz, et al. June 2022. <i>Metallicity Distribution Functions of Ultra-faint Dwarf Galaxies from Hubble Space Telescope Narrow-band Imaging</i> . Contributed talk to the 240th AAS Meeting in Pasadena, CA.	
	S. W. Fu , J. D. Simon, and D. R. Weisz. November 2019. <i>Dynamical History of the Crater II Dwarf Galaxy</i> . Contributed talk to the “Local Local Group” Meeting at	

KIPAC in Stanford, CA.

POSTERS

S. W. Fu, D. R. Weisz, et al. June 2022. *Metallicity Distribution Functions of Local Group Dwarf Galaxies from Hubble Space Telescope Narrow-band Imaging*. Contributed poster to the S4 Symposium at the annual European Astronomical Society meeting in Valencia, Spain.

S. W. Fu, D. R. Weisz, et al. September 2020. *The Metallicity Distribution Functions of Ultra-Faint Dwarf Galaxies*. Contributed poster to the “Local Group Symposium,” hosted virtually from STScI in Baltimore, MD.

S. W. Fu, J. D. Simon, and D. R. Weisz. November 2019. *Dynamical History of the Crater II Dwarf Galaxy*. Contributed talk to the “Local Local Group” Meeting at KIPAC in Stanford, CA.

S. W. Fu, J. D. Simon, and D. R. Weisz. November 2019. *Dynamical History of the Crater II Dwarf Galaxy*. Contributed talk to UC Berkeley lunch seminar in Berkeley, CA.

S. W. Fu, J. D. Simon, and D. R. Weisz. June 2019. *Dynamical History of the Crater II Dwarf Galaxy*. Contributed talk to the “Science in Our Own Backyard: Exploring the Galaxy and the Local Group with WFIRST” conference in Pasadena, CA.

S. W. Fu, J. D. Simon, et al. 2019. *Dynamical Histories of the Crater II and Hercules Dwarf Galaxies*. Poster presentation at 233rd AAS Meeting in Seattle, WA

J. D. Simon, **S. W. Fu**, et al. 2019. *The Nature of the Peculiar Milky Way Satellite Sagittarius II*. iPoster presentation at 233rd AAS Meeting in Seattle, WA

Sobeck J., ... **S. W. Fu**, et al. 2019. *An Examination of the APOGEE-2 Survey Data for the Draco Dwarf Spheroidal Galaxy*. Poster presentation at 233rd AAS Meeting in Seattle, WA

W. Fu, J. D. Simon, et al. *Characterizing the 300 km/s Stream Near Segue 1*. Poster presentation at 231st AAS Meeting in Washington, D.C.

W. Fu, J. D. Simon, et al. *A Study of Low-Metallicity Red Giant Stars in the Ursa Minor Dwarf Spheroidal Galaxy Using APOGEE Survey Data*. Poster Presentation at the 229th AAS Meeting in Grapevine, TX

TELESCOPE ALLOCATIONS

HST/WFC3	Cycle 29, GO-16686, 30 orbits (Co-I) <i>The Metallicity Distribution Functions of Faint M31 Satellites</i>
HST/WFC3	Cycle 28, GO-16226, 23 orbits (PI) <i>Metallicity Distribution Functions of Quenched Field Dwarf Galaxies</i>
Magellan/MIKE	2020A, 2 Nights (Co-I) <i>Chemical Evolution of the Hidden Giants: Crater II</i>
Magellan/IMACS	2020A, 1 Night (Co-I) <i>Chemical Evolution of the Hidden Giants: Crater II</i>
Magellan/MIKE	2020A, 3 Nights (Co-I) <i>Chemical Abundances of the Hidden Giants: Antlia II</i>

AWARDS

	Paul & Daisy Soros Fellowship for New Americans	2020
	Hertz Fellowship Finalist	2020
	NSF Graduate Research Fellowship , National Science Foundation	2019
	Cranor Fellowship , UC Berkeley Astrophysics	2019
	Barry M. Goldwater Scholar , Barry M. Goldwater Scholarship and Excellence in Education Foundation	2018
	Tileston Junior Physics Prize Pomona College Department of Physics and Astronomy	Nov 2018
	Inaugural FUTURE of Physics at Caltech Cohort	Nov 2018
	Pomona College Scholar , Pomona College	Jun 2016-Jun 2019
	Tileston Sophomore Physics Prize Pomona College Department of Physics and Astronomy	Jan 2018
	Moncrief Astronomy Prize Pomona College Department of Physics and Astronomy	Sep 2016
TEACHING	UC Berkeley (Fall 2019-present) ASTRON218: Galaxies, Graduate Student Instructor Ay160: Stellar Physics, Graduate Student Instructor	Fall 2021 Fall 2019
	Pomona College (Spring 2016-Spring 2019) PHYS128: Electronics (with community partnership) — Mentor ASTR101: Observational Astronomy — Mentor & Lab TA ASTR51: Introductory Astronomy — Mentor ASTR101: Observational Astronomy — Mentor & Lab TA ASTR51: Introductory Astronomy — Mentor PHYS70: Spacetime, Quanta and Entropy — Mentor & Lab TA ASTR2: Galaxies and Cosmology — Lab TA	Spring 2019 Fall 2018 Spring 2018 Fall 2017 Spring 2017 Fall 2016 Spring 2016
SERVICE	Community Partnership With Fremont Academy Femineers Physics Department Liaison Physics Cohort Program Organizer Carnegie Summer Student Program Student Leader Community Partnership With Fremont Academy Femineers Carnegie Summer Student Program Student Leader Social Justice in STEM Reading Group Co-Organizer	Jan 2019-May 2019 Jan 2016-May 2019 Jan 2016-May 2019 Jun 2018-Aug 2018 Mar 2018-May 2018 Jun 2017-Aug 2017 Jan 2017-May 2017
PROFESSIONAL SOCIETY MEMBERSHIPS	Phi Beta Kappa American Astronomical Society , Junior Member Sigma Xi Scientific Research Honor Society , Associate Member	May 2019-Present Sep 2016-Present Sep 2018-Present
PROFESSIONAL REFERENCES	Dr. Daniel R. Weisz Assistant Professor, UC Berkeley dan.weisz@berkeley.edu Dr. Gwen C. Rudie Staff Scientist, Carnegie Observatories gwen@carnegiescience.edu Prof. Philip Choi Associate Professor, Pomona College philip.choi@pomona.edu	Dr. Joshua D. Simon Staff Scientist, Carnegie Observatories jsimon@carnegiescience.edu Prof. Jorge Moreno Assistant Professor, Pomona College jorge.moreno@pomona.edu