

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 August 2019-present PD Soros Fellow, NSF Graduate Research Fellow & Cranor Fellow Advisor: Prof. Daniel R. Weisz B.A. Physics, Pomona College , Claremont, CA May 2019 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>
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, 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 I</i>, ApJ, 866, 42
PRESENTATIONS	S. W. Fu , D. R. Weisz, et al. September 2020. <i>The Metallicity Distribution Functions of Ultra-Faint Dwarf Galaxies</i> . 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. <i>Dynamical History of the Crater II Dwarf Galaxy</i> . 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. <i>Dynamical History of the Crater II Dwarf Galaxy</i> . Contributed talk to UC Berkeley lunch seminar in Berkeley, CA. S. W. Fu , J. D. Simon, and D. R. Weisz. June 2019. <i>Dynamical History of the Crater II Dwarf Galaxy</i> . 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. <i>Dynamical Histories of the Crater II and Hercules Dwarf Galaxies</i> . Poster presentation at 233rd AAS Meeting in Seattle, WA J. D. Simon, S. W. Fu, et al. 2019. <i>The Nature of the Peculiar Milky Way Satellite Sagittarius II</i>. iPoster presentation at 233rd AAS Meeting in Seattle, WA Sobeck J., ... S. W. Fu , et al. 2019. <i>An Examination of the APOGEE-2 Survey Data for the Draco Dwarf Spheroidal Galaxy</i> . 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, HST/ACS imaging; GO-16229, 23 orbits (PI)
Magellan/MIKE High-Resolution Spectroscopy, 3 Nights (Co-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 Nov 2018
Pomona College Department of Physics and Astronomy
Inaugural FUTURE of Physics at Caltech Cohort Nov 2018
Pomona College Scholar, Pomona College Jun 2016-Jun 2019
Tileston Sophomore Physics Prize Jan 2018
Pomona College Department of Physics and Astronomy
Moncrief Astronomy Prize Sep 2016
Pomona College Department of Physics and Astronomy

TEACHING

UC Berkeley (Fall 2019-present)
Ay160: Stellar Physics, Graduate Student Instructor Fall 2019
Pomona College (Spring 2016-Spring 2019)
PHYS128: Electronics (with community partnership) — Mentor Spring 2019
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

SERVICE

Community Partnership With Fremont Academy Femineers Jan 2019-May 2019
Physics Department Liaison Jan 2016-May 2019
Physics Cohort Program Organizer Jan 2016-May 2019
Carnegie Summer Student Program Student Leader Jun 2018-Aug 2018
Community Partnership With Fremont Academy Femineers Mar 2018-May 2018
Carnegie Summer Student Program Student Leader Jun 2017-Aug 2017
Social Justice in STEM Reading Group Co-Organizer Jan 2017-May 2017

PROFESSIONAL
SOCIETY
MEMBERSHIPS

Phi Beta Kappa May 2019-Present
American Astronomical Society, Junior Member Sep 2016-Present
Sigma Xi Scientific Research Honor Society, Associate Member Sep 2018-Present

PROFESSIONAL
REFERENCES

Dr. Daniel R. Weisz
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Dr. Gwen C. Rudie
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Prof. Philip Choi
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Prof. Jorge Moreno
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