

EDUCATION

University of California, Davis Ph.D. in Physics, Advisor: Andrew Wetzel	2015 –2021
Florida International University B.S. in Physics	2011–2015

SCHOLARSHIPS AND AWARDS

- NSF Astronomy and Astrophysics Postdoctoral Fellow 2021–
- McNair Graduate Fellow 2015–2016
- McNair Scholar 2014–2015

PUBLICATIONS

- [1] E. D. Jahn, L. V. Sales, A. Wetzel, **J. Samuel**, K. El-Badry, M. Boylan-Kolchin, and J. S. Bullock, “The effects of LMC-mass environments on their dwarf satellite galaxies in the FIRE simulations”, *arXiv e-prints*, arXiv:2106.03861, arXiv:2106.03861, Jun. 2021. arXiv: 2106.03861 [astro-ph.GA].
- [2] **J. Samuel**, A. Wetzel, S. Chapman, E. Tollerud, P. F. Hopkins, M. Boylan-Kolchin, J. Bailin, and C.-A. Faucher-Giguère, “Planes of satellites around Milky Way/M31-mass galaxies in the FIRE simulations and comparisons with the Local Group”, MNRAS, vol. 504, no. 1, pp. 1379–1397, Jun. 2021.
- [3] I. B. Santistevan, A. Wetzel, R. E. Sanderson, K. El-Badry, **J. Samuel**, and C.-A. Faucher-Giguère, “The origin of metal-poor stars on prograde disc orbits in FIRE simulations of Milky Way-mass galaxies”, MNRAS, vol. 505, no. 1, pp. 921–938, Jul. 2021.
- [4] A. Smercina, E. F. Bell, **J. Samuel**, and R. D’Souza, “Relating the Diverse Merger Histories and Satellite Populations of Nearby Galaxies”, *arXiv e-prints*, arXiv:2107.04591, arXiv:2107.04591, Jul. 2021. arXiv: 2107.04591 [astro-ph.GA].
- [5] **J. Samuel**, A. Wetzel, E. Tollerud, S. Garrison-Kimmel, S. Loebman, K. El-Badry, P. F. Hopkins, M. Boylan-Kolchin, C.-A. Faucher-Giguère, J. S. Bullock, S. Benincasa, and J. Bailin, “A profile in FIRE: resolving the radial distributions of satellite galaxies in the Local Group with simulations”, MNRAS, vol. 491, no. 1, pp. 1471–1490, Jan. 2020.
- [6] S. Garrison-Kimmel, A. Wetzel, P. F. Hopkins, R. Sanderson, K. El-Badry, A. Graus, T. K. Chan, R. Feldmann, M. Boylan-Kolchin, C. C. Hayward, J. S. Bullock, A. Fitts, **J. Samuel**, C. Wheeler, D. Kereš, and C.-A. Faucher-Giguère, “Star formation histories of dwarf galaxies in the FIRE simulations: dependence on mass and Local Group environment”, MNRAS, vol. 489, no. 4, pp. 4574–4588, Nov. 2019.

TALKS

- Satellite dwarf galaxies around Milky Way-mass hosts in the FIRE simulations* 2021
University of Washington
- Satellite planes in the FIRE simulations* 2021
Space Telescope Science Institute
- Predictions for satellite galaxy distributions around MW/M31-mass host galaxies* 2021
AAS Dissertation Talk
- Predictions for satellite galaxy distributions around Milky Way analogs with NGRST* 2020
Galaxy Formation and Evolution in the Era of the Nancy Grace Roman Space Telescope, STScI
- Spatial and kinematic coherence of MW/M31 satellites in the FIRE simulations* 2019
UC Davis Astrophysics Symposium & Bay Area Local Group Meeting

POSTERS

- The Distribution of Satellite Galaxies around MW/M31-mass Hosts in the FIRE Simulations* 2020
STScI Symposium - The Local Group: Assembly & Evolution
- The distribution of satellite galaxies around MW/M31-mass hosts in the FIRE simulations* 2019
Santa Cruz Galaxy Workshop

OBSERVING

- 2 nights, Lick Observatory/Kast 2020
Completing the census of M106 satellite galaxies
PI: Jenna Samuel
- 48 orbits, Hubble Space Telescope General Observer Program (Cycle 28) 2020
Andromeda & the Seven Dwarfs: M31 Mass, Satellite Orbits, & the Nature of the Satellite Plane
PI: Tony Sohn

TEACHING

- **Instructor** at University of California, Davis Spring 2020
Intro Physics (PHY1B) Remote learning online curriculum and lectures for large lecture course.
- **Teaching Assistant** at University of California, Davis 2016–2019
Astronomy, physics, and math methods courses and labs.
- **Learning Assistant** at Florida International University 2012–2015
Modern physics labs with data analysis, and intro physics labs.

SERVICE AND OUTREACH

- **Leader** at Diversity and Inclusion in Physics 2017–Current
Facilitate weekly meetings on department climate, create peer-mentoring workshop series for students, and publicize resources for equity in teaching and research.
- **Graduate Student Representative** at Committee for Improving Graduate Education 2020-2021
Plan and deliver seminars and guides on mental health, financial support, and mentorship.
- **Team Member** at APS-IDEA 2020-2021
APS Inclusion, Diversity, and Equity Alliance
- **Mentor** at UC Davis Physics and Astronomy and Calbridge North 2018-2020
Mentor to first year graduate students at UC Davis, and to a senior undergraduate through Calbridge.
- **Speaker** at Davis Senior High School 2020
Galaxy Simulations and Life in Grad School
- **Organizer and Speaker** at Astronomy on Tap, Davis 2018-2019
Put on free public talks, trivia, and Q&A once a month. Talk: ‘Spacecraft of Apollo 11’
- **Local Organizing Committee Member** at CUWiP 2019 2018-2019
Planned lodging, laboratory tours, transportation, and recruitment for 150 attendees.