DEVONTAE C. BAXTER

The University of California, San Diego - Department of Astronomy & Astrophysics 9500 Gilman Dr 0417, La Jolla, CA 92093

Positions Held

NSF Astronomy & Astrophysics Postdoctoral Fellow at UC San Diego	July 2023 – Present
Mentor: Alison L. Coil	San Diego, CA

Education

The University of California, Irvine	May 2023
Doctorate of Philosophy (Ph.D.) in Physics Advisor: Michael C. Cooper	Irvine, CA

Georgia Institute of Technology Bachelor of Science (B.S.) in Physics with highest honors | Advisor: Alberto Fernandez-Nieves Atlanta, GA

Awards, Grants, and & Fellowships

NSF Astronomy and Astrophysics Postdoctoral Fellowship	2023-2026
UC Chancellor's Postdoctoral Fellowship	2023-2025
AAS National Osterbrock Leadership Program Fellowship	2020-2023
LSSTC Data Science Fellowship	2019-2022
UCI Eugene Cota-Robles Graduate Fellowship	2017-2023
Tulsa Community Foundation: AMC Cares Scholarship	2015-2017
Georgia Hope Scholarship	2015-2017

Observing Experience

W.M. Keck Observatory/MOSFIRE	1.5 nights	GOGREEN Survey	Co-I
W.M. Keck Observatory/KCWI	4.5 nights	A KCWI Survey of UDGs in the Field	Co-I
W.M. Keck Observatory/DEIMOS	3.5 nights	A DEIMOS Survey of the JWST CEERS Field	Co-I
W.M. Keck Observatory/DEIMOS	6.5 nights	Constraining the Physics of Satellite Quenching at $z < 1$	Co-I

Publications

Baxter, Devontae C., et al. 2024, The Importance of Gas Starvation in Driving Satellite Quenching in Galaxy Groups at $z \sim 0.8$. ApJ, submitted.

L. Xie, G, et al. incl. Baxter, Devontae C., 2024, The First Quenched Galaxies: When and How? ApJL, 967, L42.

Baxter, Devontae C., et al. 2023, When the Well Runs Dry: Modelling Environmental Quenching of High-mass Satellites in Massive Clusters at $z \gtrsim 1$. MNRAS, 526, 3716

E. Kukstas, et al. incl. Baxter, Devontae C., 2023, The GOGREEN Survey: A Critical Assessment of Environmental Trends in Cosmological Hydrodynamical Simulations at $z \approx 1$. MNRAS, 518, 4782

Baxter, Devontae C., et al. 2022, The GOGREEN Survey: The GOGREEN Survey: Constraining the Satellite Quenching Timescale in Massive Clusters at $z \gtrsim 1$. MNRAS, 515, 5479

M. K. Rodriguez Wimberly, et al. incl. Baxter, Devontae C. 2022, Sizing from the Smallest Scales: The Mass of the Milky Way. MNRAS, 513, 4968

Baxter, Devontae C., et al. 2021, A Machine Learning Approach to Measuring the Quenched Fraction of Low-Mass Satellites Beyond the Local Group. MNRAS, 503, 1636

S. Mahajan, et al. incl. **Baxter, Devontae C.** 2020, Reverse Janssen Effect in Narrow Granular Columns. PRL, 124, 128002

Professional Talks

TGD + G 1 1 1 1 1 1 G 1	ct 2024
*UC Davis Cosmology and Astronomy Seminar O	
†President's Postdoctoral Fellowship Program Academic Spring 2024 Retreat Apr	ril 2024
†AAS 243 Meeting, New Orleans, LA (Dissertation Talk) Ja	n 2024
†NSF AAPF Fellows Symposium Ja	n 2024
*The Center for Relativistic Astrophysics Seminar, Georgia Institute of Technology No.	ov 2023
*UC San Diego Astronomy Colloquium O	ct 2023
*The Baryon Cycle of Protocluster Galaxies, Leiden, the Netherlands O	ct 2023
*First Structures in the Universe 2023, Paris, France Sep	ot 2023
*Inaugural Conference for Emerging Black Academics in STEM, Caltech, CA Ma	ay 2023
†AAS 240 Meeting, Pasadena, CA	ne 2022
*University of Kansas Astronomy Seminar Apr	ril 2022
*Little Galaxies Journal Club, The Ohio State University Marc	ch 2021

Leadership

Program Development & Leadership:

Founder and Program Director - Computational Astrophysics Research Preparation (CARP) 2023-Present NSF-funded coding and mentorship program for prospective junior college transfer students.

Program Coordinator - Computational Research Access NEtwork (CRANE) 2022-Present International coding and mentorship program for historically underrepresented scholars.

Program Chair - UCI Physics and Astronomy Community Excellence (PACE) Peer Mentoring Program 2020-2023 Student-led program focused on 1-on-1 and group mentoring for first-year graduate students.

Teaching & Outreach

Instructor - Computational Astrophysics Research Preparation Spring Workshop	May 2024
Instructor - Computational Research Access NEtwork 2024 Workshop	May 2024
Teaching Assistant - UC Carpentries Fall Workshop Series	Sep 2023
Instructor - LSSTC Data Science Fellowship Program Workshop	June 2023
Instructor - Computational Research Access NEtwork 2023 Workshop	May 2023
Instructor - Physics Olympiad Winter Bootcamp at Ardent Academy for Gifted Youth	December 2019
Teaching Assistant - Physics 20E (Life in the Universe) at UC Irvine	Spring 2019
Teaching Assistant - Physics 20B (Cosmology) at UC Irvine	Winter 2019
Teaching Assistant - Physics 20D (Space Science) at UC Irvine	Fall 2018
Telescope Operator - UCI Astronomy Public Outreach Program	2018-2020
Spanish Interpreter - Good Samaritan Health Center in Atlanta, Georgia	Spring 2017

Certificates

Carpentries Instructor Certification

Certification in Course Design from UCI Division of Teaching Excellence and Innovation

Certification for the Integration of Research, Teaching and Learning from UCI Division of Teaching Excellence and Innovation Mentoring Excellence Program Certification by UCI Graduate Division

Professional Service

Hubble Space Telescope Cycle 32 TAC Expert Reviewer	2024
Social Event Chair - UCI Physics Grad Caucus	2018-2020

Professional Memberships

American Astronomical Society	2020-Present
National Society of Black Physicists	2024-Present

Skills

 $\begin{tabular}{ll} \textbf{Technical Skills}: Python, \begin{tabular}{ll} \begin{tabular}{ll} \textbf{ATEX}, Bash, HTML/CSS, Mathematica, Git, ADQL/SQL, Machine Learning (PyTorch, Tensorflow) \\ \end{tabular}$

Soft Skills: Scientific Communication, Leadership & Project Management, Teaching and Mentoring across diverse backgrounds

Foreign Languages: Spanish (fluent), French (intermediate)