

# Devontae Baxter

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## EDUCATION

### The University of California, Irvine, Irvine, California, USA

- Masters of Science (M.S.) in Physics
- Cumulative GPA: 3.80 / 4.00

September 2017 – June 2019

### Georgia Institute of Technology, Atlanta, Georgia, USA

- Bachelor of Science (B.S.) in Physics
- Concentration: Astrophysics
- Minor: Spanish
- Graduated with Highest Honors
- Dean's List: 2015-2017
- Cumulative GPA: 3.77 / 4.00

January 2015 – May 2017

### Georgia State University Perimeter College, Clarkston, Georgia, USA

- Associate of Science (A.S.) in Physics
- Dean's List: 2012-2014
- Cumulative GPA: 3.88 / 4.00

June 2012 – December 2014

## PUBLICATIONS & PREPRINTS

5. E. Kukstas, M. Balogh, **D. Baxter**, M. C. Cooper, “The GOGREEN Survey: A Critical Assessment of Environmental Trends in Cosmological Hydrodynamical Simulations at  $z \approx 1$ ”
4. **D. Baxter**, M. C. Cooper, “The GOGREEN Survey: The GOGREEN Survey: Constraining the Satellite Quenching Timescale in Massive Clusters at  $z \gtrsim 1$ ,” *Monthly Notices of the Royal Astronomical Society, Accepted*, August 2022 (arXiv:2207.14302).
3. M. K. Rodriguez Wimberly, M. C. Cooper, **D. Baxter**, Boylan-Kolchin, J. S. Bullock, S. P. Fillingham, A. P. Ji, L. V. Sales, J. D. Simon, “Sizing from the Smallest Scales: The Mass of the Milky Way,” *Monthly Notices of the Royal Astronomical Society*, vol. 513, no. 4, pp. 4968–4982, July 2022 (arXiv:2109.00633).
2. **D. Baxter** M. C. Cooper, S. P. Fillingham, “A Machine Learning Approach to Measuring the Quenched Fraction of Low-Mass Satellites Beyond the Local Group,” *Monthly Notices of the Royal Astronomical Society*, vol. 503, no. 2, pp. 1636–1645, May 2021 (arXiv:2102.05050).
1. S. Mahajan, M. Tennenbaum, S. N. Pathak, **D. Baxter**, X. Fan, P. Padilla, C. Anderson, A. Fernandez-Nieves, M. P. Ciamarra, “Reverse Janssen Effect in Narrow Granular Columns,” *Physical Review Letters*, vol. 124, no. 12, pp. 128002, February 2020 (arXiv:2005.14404).

## ACADEMIC AWARDS

- National Osterbrock Leadership Program Fellowship June 2020
- LSSTC Data Science Fellowship April 2019
- Eugene Cota-Robles Fellowship September 2017
- Tulsa Community Foundation: AMC Cares Scholarship July 2015
- Georgia Hope Scholarship January 2014

## INVITED TALKS

- Astronomy Seminar, The University of Kansas, Lawrence, KS (April 8, 2022)
- Little Galaxies Journal Club, The Ohio State University, Columbus, OH (March 29, 2021)

<b>TEACHING EXPERIENCE</b>	<b>Ardent Academy for Gifted Youth</b> , Irvine, California, USA	
	<ul style="list-style-type: none"> <li>▪ Physics Instructor</li> <li>• Physics Olympiad Winter Bootcamp</li> </ul>	December 2019 – December 2019
	<b>UC, Irvine Department of Physics and Astronomy</b> , Irvine, California, USA	
	<ul style="list-style-type: none"> <li>▪ Teaching Assistant</li> <li>• Physics 20D (Space Science) Fall 2018</li> <li>• Physics 20B (Cosmology) Winter 2019</li> <li>• Physics 20E (Life in the Universe) Spring 2019</li> </ul>	September 2018 – June 2019
<b>OBSERVING PROPOSALS AND GRANTS</b>	Co-Investigator <ul style="list-style-type: none"> <li>• Keck/KCWI - Smudges in Stripe 82: A KCWI Survey of UDGs in the Field (2021-2020, 5 nights)</li> <li>• Keck/DEIMOS - Deeper than DEEP: a DEIMOS Survey of the JWST Cosmic Evolution Early Release Science Field (2020, 3.5 nights)</li> </ul>	
<b>OBSERVING EXPERIENCE</b>	Keck Observatory <ul style="list-style-type: none"> <li>• DEIMOS: 16</li> <li>• KCWI: 4.5</li> </ul>	
<b>TECHNICAL SKILLS</b>	$\LaTeX$ , Python (Astropy, Keras, NumPy, Matplotlib, Pandas, Scikit-Learn, SciPy), Machine Learning (PyTorch, Tensorflow), Bayesian Statistics, GitHub, Bash, SQL, Unix/MacOS, Mathematica	
<b>CERTIFICATES</b>	<ul style="list-style-type: none"> <li>▪ Certification in Course Design by UCI Division of Teaching Excellence and Innovation</li> <li>▪ Certification for the Integration of Research, Teaching and Learning by UCI Division of Teaching Excellence and Innovation</li> <li>▪ Mentoring Excellence Program Certification by UCI Graduate Division</li> </ul>	
<b>OUTREACH &amp; SERVICE</b>	<b>UCI Physics and Astronomy Peer-Mentoring Program</b> , Irvine, California, USA	
	<ul style="list-style-type: none"> <li>▪ Leadership Team Chair</li> </ul>	August 2020 – Present
	<b>UCI Observatory - Astronomy Outreach Volunteer</b> , Irvine, California, USA	
	<ul style="list-style-type: none"> <li>▪ Volunteer</li> </ul>	October 2018 – March 2020
	<b>UCI Physics Graduate Caucus</b> , Irvine, California, USA	
	<ul style="list-style-type: none"> <li>▪ Social Event Chair</li> </ul>	October 2018 – March 2020
	<b>Georgia Latino Alliance for Human Rights</b> , Dunwoody, Georgia, USA	
	<ul style="list-style-type: none"> <li>▪ Volunteer</li> </ul>	January 2017 – April 2017
	<b>Good Samaritan Health Center</b> , Atlanta, Georgia, USA	
	<ul style="list-style-type: none"> <li>▪ Spanish Interpreter</li> </ul>	January 2017 – April 2017
<b>LANGUAGES</b>	<ul style="list-style-type: none"> <li>▪ English: Native language</li> <li>▪ Spanish: Fluent</li> <li>▪ French: Intermediate</li> </ul>	