
JAMES WILLIAM JOHNSON

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EDUCATION

Anticipate PhD in Astrophysics	2022 – 2023
The Ohio State University	Columbus, Ohio
MS in Astrophysics	November 20, 2019
The Ohio State University	Columbus, Ohio
Advisor: David H. Weinberg	
BA in Physics & Astronomy	May 12, 2017
Vanderbilt University	Nashville, Tennessee
Highest Honors in Astronomy	Thesis Advisor: Andreas A. Berlind
GPA: 3.797/4.000	<i>cum laude</i>

TEACHING

The Ohio State University, Department of Astronomy: Graduate Teaching Assistant

Astronomy 1101: From Planets to Cosmos	4 semesters, 5 sections
Astronomy 1140: Planets and the Solar System	1 semester
Astronomy 1142: Black Holes	1 semester
Astronomy 1221: Astronomy Data Analysis	1 semester

The Ohio State University, Department of Astronomy: Python Bootcamp May 2020

Sole designer and instructor ~20 hours of instruction plus exercises

Links: [GitHub Repository](#) | [YouTube Recordings \[some in prep\]](#)

SOFTWARE DEVELOPMENT

Versatile Integrator for Chemical Evolution (VICE) Python Package, Lead Author

Links: Install - [PyPI](#) | Documentation - [ReadTheDocs](#) | Source Code - [GitHub](#)

Journal Publication: [Johnson & Weinberg \(2020\)](#)

HONORS & AWARDS

Larry Ross Cathey Award	Vanderbilt University, Department of Physics & Astronomy
Sigma Pi Sigma Physics National Honor Society	Inducted spring 2015
Vanderbilt University Dean's List	7 of 8 semesters

BROADER ACTIVITIES

Ohio Science Olympiad: Volunteer	Spring 2019 – Present
FOSAA: Friends of Ohio State Astronomy & Astrophysics	Summer 2018 – Present
Participant in Diversity Journal Club	The Ohio State University, Dept of Astronomy
Real Scientists Germany Online Outreach	June 15-21, 2020
Links: Blog [In German] Twitter [In German]	

RESEARCH

Broadly, I am interested in the formation and evolution of galaxies and dark matter halos. More specifically, I have worked on the dependence of dark matter halo angular momenta on their large-scale environments, and the chemical and dynamical evolution of galaxies. Lately, I am particularly interested in the Milky Way as a case study of galactic chemodynamical evolution.

ADS Libraries: [All My Papers](#) | [My Lead-Author Papers](#) | [My Co-Authored Papers](#)

Metrics: 2 lead-author publications, 1 co-author publication, 15 citations, h-index: 2

Lead Author Publications

<i>The Secondary Spin Bias of Dark Matter Haloes</i>	arxiv:1812.02206
J.W. Johnson , A.H. Maller, A.A. Berlind, M. Sinha, J.K. Holley-Bockelmann	
2019, MNRAS, 486, 1156	
<i>The Impact of Starbursts on Element Abundance Ratios</i>	arxiv:1911.02598
J.W. Johnson , D.H. Weinberg	
2020, MNRAS, 498, 1364	

Contributing Author Publications

<i>The Similarity of Abundance Ratio Trends and Nucleosynthetic Patterns in the Milky Way Bulge</i>	arxiv:2009.05063
E.J. Griffith, et al., incl. J.W. Johnson	
Submitted to ApJ, under peer review	

Conferences Attended

236th American Astronomical Society Meeting	iPoster-Plus Presentation
Sloan Digital Sky Survey Collaboration Meeting June 2020	Contributed Talk