

# James William Johnson

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GitHub: <https://github.com/giganano>

## Education

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- Anticipate Doctor of Philosophy in Astrophysics 2022 – 2023  
    ○ The Ohio State University Columbus, Ohio
- Master of Science in Astrophysics November 20, 2019  
    ○ The Ohio State University Columbus, Ohio  
    ○ GPA: 4.000/4.000  
    ○ Defense Committee: David H. Weinberg (chair), Jennifer A. Johnson, Todd A. Thompson, Adam K. Leroy
- Bachelor of Arts in Physics & Astronomy May 12, 2017  
    ○ Vanderbilt University Nashville, Tennessee  
    ○ Highest Honors in Astronomy Thesis Advisor: Andreas A. Berlind  
    ○ GPA: 3.797/4.000 *cum laude*  
    ○ Study Abroad: Vanderbilt in Berlin Freie Universität Berlin
- High School Diploma May 25, 2013  
    ○ Lincoln East High School Lincoln, Nebraska  
    ○ GPA: 4.267/4.000 (weighted) Top 3% of graduating class

## Research

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2 lead-author journal publications; 5 citations; h = 1  
1 open-source software

- **Lead-Author Publications**
  - *The Secondary Spin Bias of Dark Matter Haloes* arXiv:1812.02206  
**J.W. Johnson**, A.H. Maller, A.A. Berlind, M.Sinha, J.K. Holley-Bockelmann  
2019, MNRAS, 486, 1156
  - *The Impact of Starbursts on Element Abundance Ratios* arXiv:1911.02598  
**J.W. Johnson**, D.H. Weinberg  
*Submitted to MNRAS*
- **Software Development**
  - Versatile Integrator for Chemical Evolution (VICE) Python Package  
<https://github.com/giganano/VICE.git>

## Employment

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- The Ohio State University Department of Astronomy
  - Research Fellow August 2017 – August 2018
  - Teaching Assistant August 2018 – December 2019
  - Research Assistant January 2020 – Present
- Vanderbilt University Physics Department January 2015-April 2017
  - Tutoring
  - Proctoring
  - Grading
- University of Nebraska-Lincoln Summer 2015
  - Cosmic Ray Observatories Project

## Honors & Awards

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- Larry Ross Cathey Award (Vanderbilt University) Spring 2017
  - Outstanding graduating senior studying astronomy
- Sigma Pi Sigma Physics National Honor Society Inducted Spring 2015
- Dean's List: Vanderbilt University 7 of 8 Semesters
- National Society of Collegiate Scholars Inducted Spring 2013
- National Society of High School Scholars Inducted Spring 2012
- National Honor Society Inducted Fall 2012
- High School Varsity Letter Award
  - Academics 2012-2013
  - Tennis: Team Captain Fall 2012
- High School Scholar Athlete Award 2010-2012

## Broader Activities

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- Science Olympiad: Volunteer Spring 2019 – Present
- FOSAA: Friends of Ohio State Astronomy & Astrophysics Summer 2018 – Present
- WRVU: Vanderbilt University Student Radio DJ Spring 2014-Spring 2017

## Special Skills

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- Computer Programming Python, C, Bash, LaTeX, Mathematica
- Languages
  - English Native Speaker
  - German Fluent: C1 (Freie Universität Berlin)