

**JOSEPH SCHULZE**

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**EDUCATION**

**The Ohio State University**, Columbus, OH, August 2018 – Present

M.S. in Earth Sciences

Expected May 2020

Current GPA: 3.95

**The Ohio State University**, Columbus, OH, August 2013 - May 2017

Bachelor of Science in Physics and Astronomy & Astrophysics with Research

Distinction

Thesis Title: Characterization of LP133-373: A Double-line, Eclipsing dMe Binary

Advisor: Don Terndrup

GPA: 3.73

**Miami University**, Oxford, OH, August 2012-May 2013

Earned Hours: 41

GPA: 3.86

**HONORS AND AWARDS**

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|---------------|---|
| 2019 April    | Estwing Award: Distinguished First Year Graduate Student in Earth Science (\$150)   |
| 2018 August.  | The Ohio State University Fellowship (Covers tuition, student fees, and \$25,800 stipend for first year of graduate study)                |
| 2016 November | ASC Honors Program Undergraduate Scholarship Competition (\$4500)   |
| 2016 April    | Selected to participate in the Summer Undergraduate Research Program in Astrophysics at the Ohio State University                         |
| 2016 April    | Mayers Summer Research Scholarship award (\$3500); declined due to overlap with the Summer Undergraduate Research Program in Astrophysics |
| 2016 March    | Honorable mention award, Denman Undergraduate Poster Forum  |
| 2015 April    | Physics Summer Undergraduate Research Scholarship (\$3500)  |
| 2013-2016     | Dean's List (Au13, Sp14, Sp15, Au15, Sp16)  |

**PUBLICATIONS**

ORCID: 0000-0003-3570-422X

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|------|---|
| 2019 | Page, M. R., B. A. McCullian, C. M. Purser, J. G. Schulze, T. M. Nakatani, C. S. Wolfe, J. R. Childress et al. "Optically detected ferromagnetic resonance in diverse ferromagnets via nitrogen vacancy centers in diamond." <i>Journal of Applied Physics</i> 126, no. 12: 124902. |
| 2016 | D.M. Terndrup, G. Calhoun, R. Cannata, J. Schulze, S. Dong, and J.L. Prieto. May 2016. Spectroscopic Classification of ASASSN-16fj/AT2016cmn as a Type Ia SN. <i>The Astronomer's Telegram</i> , No. 9075.  |

**PRESENTATIONS**

- 2019 September **School of Earth Sciences Graduate Research Symposium**  
The Ohio State University, Columbus, OH. “Do Rocky Planets  
Reflect the Compositions of their Host Stars?”
- 2017 March **The Richard J. and Martha D. Denman Undergraduate  
Research Forum**, The Ohio State University, Columbus, OH.  
“Characterization of LP133-373: A Double-line, Eclipsing dMe  
Binary”.
- 2016 March **The Richard J. and Martha D. Denman Undergraduate  
Research Forum**, The Ohio State University, Columbus, OH.  
“Detection of magnetic phase transitions in FeGe thin films via  
magnetic resonance spectral analysis”.
- 2015 September **Fall Undergraduate Research Forum**, The Ohio State  
University, Columbus, OH. “Optical detection of ferromagnetic  
resonance using nitrogen vacancy centers in nano-diamonds”.
- 2015 March **The Natural and Mathematical Sciences Undergraduate  
Research Forum**, The Ohio State University, Columbus, OH.  
“Characterization of ferromagnetic resonance spin pumping  
efficiency using custom microwave guide”.
- 2014 September **Fall Undergraduate Research Forum**, The Ohio State  
University, Columbus, OH. “Construction of magnetotransport  
measurement system with integrated magnetic field modulation and  
hall probe field measurement”.

**POSITIONS HELD**

- Graduate Teaching Assistant, School of Earth Sciences, The Ohio State University  
Advisor: Wendy Panero  
Aug 2019 - Present
- Graduate Research Fellow, School of Earth Sciences, The Ohio State University  
Advisor: Wendy Panero  
Aug 2018 – Aug 2019
- Clinical Research Coordinator, Optimed Research, Worthington, Ohio  
Feb 2018 – Aug 2018
- Clinical Research Assistant, Optimed Research, Worthington, Ohio  
Dec 2017 – Feb 2018
- Research Assistant 2, Department of Astronomy, The Ohio State University  
Supervisor: Don Terndrup  
June 2017 – Dec 2017
- Research Assistant, Department of Astronomy, The Ohio State University  
Supervisor: Don Terndrup  
May 2016 – Aug 2016
- Research Assistant, Department of Physics, The Ohio State University  
Supervisor: P. Chris Hammel

**AFFILIATIONS**

2019-Present. School of Earth Science Graduate Outreach Committee  
2018-Present Planet Group – Ohio State Department of Astronomy  
2018-Present School of Earth Sciences Graduate Student Club  
2018-Present Metro Rocks – School of Earth Sciences Outreach Program  
2015-2016 Holography Club, The Ohio State University

**OUTREACH**

2018-Present Metro Rocks – School of Earth Sciences Outreach Program – Designed and supervised workshop on the structure and relative size-scales of objects in the solar system to middle-school students.  
2016-2017 Peer Research Contact, Undergraduate Research Office at The Ohio State University