Joshua V. Shields

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Education

PhD Student — Michigan State University, East Lansing, MI	2019 - Present
Degree Seeking - Astronomy and Astrophysics	

Additional Coursework — The Ohio State University, Columbus, OH	2017
Graduate Level Classes - Astronomy	

Bachelors of Arts — Vassar College, Poughkeepsie, NY	2012-2016
Triple Major - Physics, Astronomy, and Russian Studies	

Research Interests

Type Ia supernovae, time-domain surveys, transients, variable stars, galactic evolution

Research Experience

The Ohio State University — Columbus, OH   2016 – 2019
Department of Astronomy
Research Assistant - Physical, Astronomy
- Worked as part of the ASAS-SN team analyzing objects and incoming data.
- Performed original research over the large ASAS-SN dataset.

Vassar College — Poughkeepsie, NY   2015 – 2016
Observational Assistant
- Gathered astronomical observations through operation of a large visual band telescope.
- Reduced data using IRAF.

The Ohio State University — Columbus, OH   2014
Department of Population Sciences
Epidemiological Research Intern
- Designed and executed an original medical research and analysis project examining connections between social network variables and smoking status.

Publications
Published(14 total, 1 first author)

1. *The ASAS-SN catalogue of variable stars - V. Variables in the Southern hemisphere*
   Jayasinghe, T. et al. 2020, *MNRAS*, 491, 13J

2. *The ASAS-SN Catalog of Variable Stars IV: Periodic variables in the APOGEE survey*
   Pawlak, Michal et al. 2019, *MNRAS*, 487, 5932P

3. *The ASAS-SN Catalog of Variable Stars III: Variables in the Southern TESS Continuous Viewing Zone*
   Jayasinghe, T. et al. 2018, *MNRAS*, 485, 961J

4. *The ASAS-SN Bright Supernova Catalog – IV. 2017*
   Holoien, T. W.-S., et al. 2019, *MNRAS*, 484, 1899H

5. *The ASAS-SN Catalog of Variable Stars II: Uniform Classification of 412,000 Known Variables*
   Jayasinghe, T. et al. 2019, *MNRAS*, 486, 961J

6. *An All-Sky Search For R Coronae Borealis Stars in ASAS-SN*
   Shields, J. V. et al. 2019, *MNRAS*, 483, 4470S

7. *K2 Observations of SN 2018oh Reveal a Two-Component Rising Light Curve for a Type Ia Supernova*
Dimitriadis, G. et al. 2019, *ApJ*, 870L, 1D

8. *Photometric and Spectroscopic Properties of Type Ia Supernova 2018oh with Early Excess Emission from the Kepler 2 Observations*
Li, W. et al. 2019, *ApJ*, 870, 12L

9. *Seeing Double: ASASSN-18bt Exhibits a Two-Component Rise in the Early-Time K2 Light Curve*
Shappee, B. J, et al. 2019, *ApJ*, 870, 13S

10. *ASASSN-18ey: The Rise of a New Black Hole X-Ray Binary*
Tucker, M. A. et al. 2018, *ApJ*, 867, L9

11. *The ASAS-SN catalogue of variable stars I: The Serendipitous Survey*
Jayasinghe, T. et al. 2018, *MNRAS*, 477, 3145

12. *ASASSN-18di: Discovery of a Powerful Flare on a Mid-M Dwarf*
Rodríguez, R. et al. 2018, *RNAAS*, 2b, 8

13. *The ASAS-SN bright supernova catalogue - III. 2016*
Holoien, T. W.-S. et al. 2017, *MNRAS*, 471, 4966

14. *The All-Sky Automated Survey for Supernovae (ASAS-SN) Light Curve Server v1.0*
Kochanek, C. S. et al. 2017, *PASP*, 129, 104502

Circulars and Telegrams

Co-authored 330+ Astronomer's Telegrams and Transient Name Server reports
(12 First Author)

Computational Skills

Operating Systems - Windows, MacOS/OS X, UNIX/Linux
Computer Languages - Python, LaTeX, SQL, Perl, Mathematica, Java
Astronomical Software - DS9, IRAF, MESA

References

Dr. Kris Stanek   stanek.32@osu.edu
Professor, The Ohio State University   *(614)292-3433*

Dr. Chris Kochanek   kochanek.1@osu.edu
Professor, The Ohio State University   *(614)292-5954*

Dr. Debra Elmegreen   elmegreen@vassar.edu
Professor, Vassar College   *(845)-437-7356*