

Gregory Simonian

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Education

The Ohio State University <i>Ph.D Astronomy, Advisor: Prof. Marc Pinsonneault</i>	Columbus 2013–2019
California Institute of Technology <i>B.S. Astronomy, Cum Laude</i>	Pasadena 2009–2013

Experience

Teaching

The Ohio State University <i>Graduate Teaching Assistant</i> Teaching assistant for 13 courses at OSU. Duties included: <ul style="list-style-type: none">○ Led weekly laboratory sessions○ Graded homework assignments○ Assisted with in-class discussions○ Assisted with in-class demonstrations○ Proctored exams○ Held office hours	Columbus 2013–2018
California Institute of Technology <i>Undergraduate Teaching Assistant</i> Teaching assistant for astronomy for non-majors course. Duties included: <ul style="list-style-type: none">○ Led weekly recitation sections○ Graded homework assignments○ Held office hours○ Facilitated final presentation for recitation section	Pasadena 2012

Observing

MDM 2.4-meter Hiltner Telescope <i>Optical Spectroscopy</i> Part of thesis project to detect RV variability in <i>Kepler</i> rapid rotators	14 nights Summer 2017
MDM 2.4-meter Hiltner Telescope <i>Optical Spectroscopy and Photometry</i> Queue Observing	5 nights Winter 2017
Large Binocular Telescope <i>Optical Spectroscopy and Photometry</i> Queue Observing	19 nights Summer 2014

MDM 1.3-meter McGraw-Hill Telescope*Optical Spectroscopy*

Reverberation Mapping Campaign

9 nights*Winter 2014***MDM 2.4-meter Hiltner Telescope***Optical Spectroscopy and Photometry*

DES Quasars

9 nights*Autumn 2013***Palomar 200"***Optical Spectroscopy*

Time-Resolved Spectroscopy of CR Boo for Senior Thesis

3 nights*Spring 2011*

Proposals

PI: "Tidally-synchronized binaries in the *Kepler* Field"

MDM 2.4-meter telescope, 14 nights in 2017B

PI: "Tidally-synchronized binaries in the *Kepler* Field"

APOGEE Ancillary, 61 Targets in 2017

Leadership

Student Organization: Armenian Students Association

- **President** 2017–2018
- **Treasurer** 2015–2017
- **President** 2014–2015

Languages

English: Fluent*Primary language***Armenian:** Conversational*Native Language*

First Author Publications

- [2] Gregory V. A. Simonian, Marc H. Pinsonneault, and Donald M. Terndrup. "Rapid Rotation in the Kepler Field: Not a Single Star Phenomenon". In: *ArXiv e-prints*, arXiv:1809.02141 (Sept. 2018), arXiv:1809.02141. arXiv: 1809.02141 [astro-ph.SR].
- [1] Gregory V. Simonian and Paul Martini. "Circumstellar dust, PAHs and stellar populations in early-type galaxies: insights from GALEX and WISE". In: *MNRAS* 464 (Feb. 2017), pp. 3920–3936. DOI: 10.1093/mnras/stw2623.

Co-Authored Publications

- [14] G. De Rosa et al. "Velocity-resolved Reverberation Mapping of Five Bright Seyfert 1 Galaxies". In: *ApJ* 866, 133 (Oct. 2018), p. 133. DOI: 10.3847/1538-4357/aadd11.
- [13] M. M. Fausnaugh et al. "Continuum Reverberation Mapping of the Accretion Disks in Two Seyfert 1 Galaxies". In: *ApJ* 854, 107 (Feb. 2018), p. 107. DOI: 10.3847/1538-4357/aaaa2b.

- [12] M. M. Fausnaugh et al. "Reverberation Mapping of Optical Emission Lines in Five Active Galaxies". In: *ApJ* 840, 97 (May 2017), p. 97. DOI: 10.3847/1538-4357/aa6d52.
- [11] T. W. -S. Holoien et al. "The ASAS-SN bright supernova catalogue - I. 2013-2014". In: *MNRAS* 464 (Jan. 2017), pp. 2672–2686. DOI: 10.1093/mnras/stw2273.
- [10] T. W. -S. Holoien et al. "The ASAS-SN bright supernova catalogue - II. 2015". In: *MNRAS* 467 (May 2017), pp. 1098–1111. DOI: 10.1093/mnras/stx057.
- [9] S. Mathur et al. "Space Telescope and Optical Reverberation Mapping Project. VII. Understanding the Ultraviolet Anomaly in NGC 5548 with X-Ray Spectroscopy". In: *ApJ* 846, 55 (Sept. 2017), p. 55. DOI: 10.3847/1538-4357/aa832b.
- [8] L. Pei et al. "Space Telescope and Optical Reverberation Mapping Project. V. Optical Spectroscopic Campaign and Emission-line Analysis for NGC 5548". In: *ApJ* 837, 131 (Mar. 2017), p. 131. DOI: 10.3847/1538-4357/aa5eb1.
- [7] Samuel J. Swihart et al. "2FGL J0846.0+2820: A New Neutron Star Binary with a Giant Secondary and Variable γ -Ray Emission". In: *ApJ* 851, 31 (Dec. 2017), p. 31. DOI: 10.3847/1538-4357/aa9937.
- [6] Subo Dong et al. "ASASSN-15lh: A highly super-luminous supernova". In: *Science* 351 (Jan. 2016), pp. 257–260. DOI: 10.1126/science.aac9613.
- [5] T. W. -S. Holoien et al. "Six months of multiwavelength follow-up of the tidal disruption candidate ASASSN-14li and implied TDE rates from ASAS-SN". In: *MNRAS* 455 (Jan. 2016), pp. 2918–2935. DOI: 10.1093/mnras/stv2486.
- [4] B. J. Shappee et al. "The Young and Bright Type Ia Supernova ASASSN-14lp: Discovery, Early-time Observations, First-light Time, Distance to NGC 4666, and Progenitor Constraints". In: *ApJ* 826, 144 (Aug. 2016), p. 144. DOI: 10.3847/0004-637X/826/2/144.
- [3] H. C. Campbell et al. "Total eclipse of the heart: the AM CVn Gaia14aae/ASSASN-14cn". In: *MNRAS* 452 (Sept. 2015), pp. 1060–1067. DOI: 10.1093/mnras/stv1224.
- [2] A. Pastorello et al. "Massive stars exploding in a He-rich circumstellar medium - VII. The metamorphosis of ASASSN-15ed from a narrow line Type Ibn to a normal Type Ib Supernova". In: *MNRAS* 453 (Nov. 2015), pp. 3649–3661. DOI: 10.1093/mnras/stv1812.
- [1] David Levitan et al. "Five new outbursting AM CVn systems discovered by the Palomar Transient Factory". In: *MNRAS* 430 (Apr. 2013), pp. 996–1007. DOI: 10.1093/mnras/sts672. arXiv: 1212.5312 [astro-ph.SR].