

Gregory Simonian

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Education

The Ohio State University

Ph.D Astronomy, Advisor: Prof. Marc Pinsonneault
(Expected August 2019)

Columbus

2013–

California Institute of Technology

B.S. Astronomy, Cum Laude

Pasadena

2009-2013

Proposals

PI: “Tidally-synchronized binaries in the *Kepler* Field” Observing Proposal
APOGEE Ancillary, 61 targets scheduled for Summer 2019

PI: “Tidally-synchronized binaries in the *Kepler* Field” Observing Proposal
MDM 2.4-meter telescope, 14 nights observed in 2017B.

Observing Experience

MDM 2.4-meter Hiltner Telescope

Optical Spectroscopy

Part of thesis project to detect RV variability in *Kepler* rapid rotators

14 nights

Summer 2017

MDM 2.4-meter Hiltner Telescope

Optical Spectroscopy and Photometry

Queue Observing

5 nights

Winter 2017

Large Binocular Telescope

Optical Spectroscopy and Photometry

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

Teaching Experience

The Ohio State University

Columbus

Instructor

2019–

Instructor of Record for Astronomy 1140 “Planets and the Solar System”. I hold lectures, write assessments, and supplement the lectures with planetarium shows.

The Ohio State University

Columbus

Graduate Teaching Assistant

2013–2018

Teaching assistant for 13 courses at OSU. Responsibilities included weekly laboratory sections, grading homework assignments, and holding office hours

California Institute of Technology

Pasadena

Undergraduate Teaching Assistant

2012

Teaching assistant for astronomy for non-majors course. As part of this course, I led weekly recitation sections for my students, graded their homework assignments with feedback, and facilitated a final group presentation to be delivered by the students on the last day of classes.

Seminars

Double Trouble: The Impact of Binarity in Large Rotation Datasets

National Society for Black Physicists Conference

November 2018

Leadership

Student Organization: Armenian Students Association

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

Student Faculty Council: Astrophysics Option

- **Chair** 2012-13
- **Member** 2010-11

Languages

Python: Numpy, Scipy, Astropy, Emcee

Primary Programming Language

Other Languages: C, Java, Haskell, Mathematica, Matlab, IDL

Basic Knowledge

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: *ApJ* 871, 174 (Feb. 2019), p. 174. DOI: 10.3847/1538-4357/aaf97c. 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. Holoiën 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. Holoiën 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. Holoiën 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].