Kyle Conroy

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EDUCATION

MAY 2018 | PhD in Physics, **Vanderbilt University**Nasvhille, TN | Advisors: Keivan Stassun & Andrej Prša
Dissertation: Astrophysics of Stellar Multiple Systems

May 2011 | BS in Astronomy and Astrophysics, **Villanova University** Villanova, PA | Advisor: Andrej Prša | Minor: Physics

TEACHING POSITIONS

Jan 2014, June 2015	Internship Sponsor Vanderbilt University Hosted high-school students for 6-week internships
Spring 2015	Contributing Lecturer VANDERBILT UNIVERSITY Planned and cotaught a freshman "Commons Seminar" on exoplanets
Aug 2013 - June 2014	Graduate Teaching Assistant Vanderbilt University Intro Nighttime Astronomy Lab - helped create labs and taught the lab
Spring 2012, 2018	Teaching Assistant VILLANOVA UNIVERSITY Graded and helped teach the senior-level capstone course 'Modeling Analysis'
Fall 2008 - 2010	Undergraduate Teaching Assistant VILLANOVA UNIVERSITY Co-taught and graded labs for AST 1073 Stellar Lab

RESEARCH POSITIONS

June 2018 - Current	Astronomy Post-Doc Researcher VILLANOVA UNIVERSITY
Nov 2016 - May 2018	Research Technician VILLANOVA UNIVERSITY Dr Andrej Prša
June 2012 - May 2018	Graduate Research Assistant Vanderbilt University Dr Keivan Stassun
Aug 2011 - June 2012	Research Consultant VILLANOVA UNIVERSITY Dr Andrej Prša
Summer 2011	Research Associate PENNSYLVANIA STATE UNIVERSITY Dr Richard Wade
Summer 2010	SARA NSF REU Intern BUTLER UNIVERSITY Dr Brian Murphy
FEB 2008 - JUNE 2011	Undergraduate Research Assistant VILLANOVA UNIVERSITY Dr Edward Guinan and Dr Andrej Prša

Observing Experience

May 2015 | Arranged world-wide photometric follow-up campaign

for triple eclipse event of KIC 2835289

Summer 2012 | Mayall 4-m at KPNO

SUMMER 2010 | SARA 0.9-m at KPNO and remotely at CTIO

SELECTED PUBLICATIONS

Horvat, M., Conroy, K. E., Pablo, H., et al. 2018, **ApJS**, in press, 2018arXiv180607680H. *Physics of Eclipsing Binaries. III. Spin-Orbit Misalignment*

Conroy, K. E., Prša, A., Horvat, M., Stassun K.G., 2016, ApJ, 854, 163.

The Effects of Barycentric and Asymmetric Transverse Velocities on Eclipse and Transit Times

Prša, A., Conroy, K. E., Horvat, M., et al. 2016, ApJS, 227, 29.

Physics of Eclipsing Binaries. II. Toward the Increased Model Fidelity

Abdul-Masih, M., Prša, A., Conroy, K., et al. 2016, AJ, 151, 101.

Kepler Eclipsing Binary Stars. VIII. Identification of False Positive Eclipsing Binaries and Re-extraction of New Light Curves

Kirk, B., Conroy, K., Prša, A., et al. 2016, AJ, 151, 68.

Kepler Eclipsing Binary Stars. VII. The Catalog of Eclipsing Binaries Found in the Entire Kepler Data-Set

Conroy, K. E., Prša, A., Stassun, K. G., et al. 2014, PASP, 126, 914.

Kepler Eclipsing Binary Stars. V. Identification of 31 Candidate Eclipsing Binaries in the K2 Engineering Dataset

Conroy, K. E., Prša, A., Stassun, K. G., et al. 2014, AJ, 147, 45.

Kepler Eclipsing Binary Stars. IV. Precise Eclipse Times for Close Binaries and Identification of Candidate Three-body Systems

Slawson, R. W., Prša, A., Welsh, W. F., ..., Conroy, K. E. 2011, AJ, 142, 160.

Kepler Eclipsing Binary Stars. II. 2165 Eclipsing Binaries in the Second Data Release

Prša, A., Batalha, N., Slawson, R. W., .., Conroy, K. E. 2011, AJ, 141, 83.

Kepler Eclipsing Binary Stars. I. Catalog and Principal Characterization of 1879 Eclipsing Binaries in the First Data Release

CONTRIBUTED PUBLICATIONS

LaCourse, D. M., Jek, K. J., Jacobs, T. L., ..., Conroy, K. E. 2015, arXiv:1503.01829 Kepler Eclipsing Binary Stars. VI. Identification of Eclipsing Binaries in the K2 Campaign 0 Data-set

Hambleton, K. M., Kurtz, D. W., Prša, A., ..., Conroy, K. E. 2013, MNRAS, 434, 925.

KIC 4544587: an eccentric, short-period binary system with δ Sct pulsations and tidally excited modes

Oral Presentations

Conroy, K. E. 2016, Hotwiring the Transient Universe V., Villanova University

Model-Centric All-Sky EB Catalog: collaborative open-science and optimizing follow-up efforts

Conroy, K. E. 2016, Binary Stars in Cambridge, University of Cambridge Modeling Triple Star Systems in PHOEBE 2.0

Conroy, K. E., Prša, A., & Stassun, K. 2015, AAS Meeting Abstracts, 225, #415.06.

A Triple Eclipsing System as a Test Case for Close Binary Formation Through Kozai Cycles

Conroy, K. E., Prša, A., Stassun, K. 2015, ASP Conference Series, 496, 99C

A Triple Eclipsing System as a Test Case for Close Binary Formation Through Kozai Cycles

Conroy, K., Degroote, P., Hambleton, K., et al. 2013, EAS Publications Series, 64, 295. PHOEBE 2.0 - Triple and Multiple Systems

Conroy, K. E., Prša, A., Orosz, J., et al. 2012, AAS Meeting Abstracts 220, #406.03. *Eclipse Timing Variations of Short-Period Binaries in the Kepler Field*

POSTER PRESENTATIONS

Conroy, K. E., Prša, A., Horvat, M., & Stassun, K. 2016, AAS Meeting Abstracts, 229, #344.22. Robust Modeling of Stellar Triples in PHOEBE

Conroy, K. E., Prša, A., & Stassun, K. 2014, AAS Meeting Abstracts, 223, #155.20.

A Triple Eclipsing System as a Test Case for Close Binary Formation Through Kozai Cycles

Conroy, K. E., Darragh, A. N., Liu, Z. J., & Murphy, B. W. 2011, Bulletin of the AAS, 43, #152.18. Variable Stars in the Globular Cluster M14

Conroy, K., Engle, S., Ballouz, R., & Prša, A. 2010, Bulletin of the AAS, 42, #419.36. Surface Activity Analysis of the Eclipsing Binary UV Leonis Based On New Spectrophotometric Data

INVITED TALKS

June 2018	Co-Lead Workshop, including giving tutorials and talks PHOEBE Workshop VILLANOVA UNIVERSITY
DECEMBER 2017	Invited Colloquium Speaker Department of Mathematics and Physics LJUBLJANA UNIVERSITY, Slovenia
APRIL 2015	Invited to lead workshop on using PHOEBE Space-Inn Workshop KU LEUVEN, Belgium

Code Products

PHOEBE	Member of the development team GitHub open-source repository
PHOEBE Website	Author and maintainer of PHOEBE website phoebe-project.org
KeplerEBs Website	Author and maintainer of Kepler Eclipsing Binaries web portal keplerEBs.villanova.edu

PROFESSIONAL DEVELOPMENT

Refereed Articles | Astronomical/Astrophysical Journal (3), Astronomy & Astrophysics (3),

Monthly Notices of the Royal Astronomical Society (5),

Information Bulletin on Variable Stars (1),

Publications of the Astronomical Society of Japan (1)

Astrophysics & Space Science (1)

Summer 2015 | Started departmental AstroHacks | Vanderbilt University

weekly meetings to work on collaborative code projects (GitHub repository)