

Stephanie T. Douglas

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Employment & Education	<i>Center for Astrophysics Harvard & Smithsonian</i>	
	National Science Foundation (NSF)	
	Astronomy & Astrophysics Post-doctoral Fellow	2017–present
	<i>Colorado College</i>	
	Visiting Lecturer in Physics & Astronomy, Block 6	2019
	<i>Columbia University</i>	
	Ph.D. in Astronomy	2017
	M.A., M.Phil. in Astronomy	2014
	<i>Franklin & Marshall College</i>	
	B.A. in Astrophysics, <i>summa cum laude</i>	2012
Grants and Fellowships	NASA <i>TESS</i> Guest Investigator (PI)	2018
	NASA WIYN PI Data Award (PI)	2017
	NASA Keck PI Data Award (PI)	2017, 2018
	NSF Astronomy and Astrophysics Postdoctoral Fellowship (PI)	2017
	NASA <i>K2</i> Guest Observer – Cycle 4 (Science PI)	2016
	Sigma Xi Grant-in-aid of Research (PI)	2015
Research Interests	Angular momentum evolution of low-mass stars in open clusters	
	Currently using photometric and spectroscopic time-domain surveys to: <ul style="list-style-type: none">• measure stellar rotation in open clusters at key evolutionary stages• search for binaries in open clusters• investigate how companions alter rotational evolution• measure tidal evolution in Solar-type stars Past work includes: <ul style="list-style-type: none">• investigating the connection between rotation and magnetic activity	
Teaching Experience	Colorado College	
	<i>Intro Physics I for Life Sciences (lecture)</i>	Spring 2019
	Columbia University	
	<i>Stars, Galaxies, & Cosmology (lab)</i>	Fall 2013, Spring 2014 & 2015
	<i>Earth, Moon, & Planets (lab)</i>	Fall 2014
	<i>Earth, Moon, & Planets (TA)</i>	Fall 2012

Undergraduate Students	Jose Perez-Chavez (Banneker Institute/U. of Arizona)	2019
	<i>Measuring rotation periods for 30-70 Myr old Sun-like stars using TESS</i>	
	Amanda Ash (CfA REU/U. of North Georgia)	2019
	<i>Rotationally Modulated Magnetic Variability in Praesepe K and M Dwarfs</i>	
	Valeria Villegas (Banneker Institute/Westminster College; now a bridge student at Washington U. St. Louis)	2018
	<i>Searching for Binaries in the Praesepe Open Cluster</i>	
	Evan Morris (Columbia U.; now a grad student at UCSC)	2017
	<i>Characterizing T Dwarfs with Medium Resolution Near-Infrared Spectra</i> Co-supervised with K. Cruz & E. Rice	
Outreach	Cambridge Explores the Universe at CfA Volunteer and Q&A panel member	2018, 2019
	Prospect Hill Academy in Cambridge, MA Two-day exoplanet transit lesson with eighth graders	2018
	Columbia University Public Astronomy Lecture facilitator and stargazing volunteer	2012-2017
	Astronomy on Tap NYC <i>Europa Report: Diving Into Life on Icy Worlds</i>	2017
	<i>How to Reboot a Telescope (Kepler & K2)</i>	2015
	<i>Mind the Gap (Between Stars and Planets)</i>	2014
Service to Profession	Referee: AAS Journals, Astronomy & Astrophysics	
	Panelist: NSF, NASA	
Professional Development	Institute for Scientist and Engineer Educators Professional Development Program (Participant in 2015, Design Team Leader in 2019)	2015, 2019
	Science Mentoring Workshop Intensive, Harvard University	2018
	Center for Teaching and Learning, Columbia University Lead Teaching Fellow	2015/2016
Talks	<i>The Impact of Companions on Rotational Evolution</i> Invited Talk; Bash Fest	2019
	<i>The Hyades and Praesepe open clusters as benchmarks for stellar rotational evolution</i>	
	Invited talk; Thinkshop 16: The rotation periods of cool stars	2019
	<i>Calibrating stellar activity, rotation, and multiplicity with open clusters</i> Invited Colloquium, University of Texas at Austin	2019

	CEHW Seminar, Pennsylvania State University	2018
	<i>The Effect of Companions on Rotational Evolution</i>	
	Invited Splinter Session Talk, Cool Stars 20	2018
	Contributed Talk; Dwarf Stars and Clusters with K2	2018
	<i>Measuring stellar rotation periods with Kepler and K2</i>	
	Colloquium, Franklin & Marshall College	2018
	<i>Open Clusters as Laboratories for Stellar Spin-down and Magnetic Activity Decay</i>	
	Seminar, Gemini Observatory Headquarters	2017
	Seminar, W. M. Keck Observatory Headquarters	2017
	Seminar, Carnegie Institution: Dept. of Terrestrial Magnetism	2017
	Dissertation Talk; AAS 229	2017
	Seminar, Massachusetts Institute for Technology	2016
	Invited Seminar, Center for Astrophysics Harvard & Smithsonian	2016
	<i>Testing the Rotation-Activity Relation with the Hyades and Praesepe</i>	
	Contributed Splinter Session Talk; Cool Stars 19	2016
	<i>Rotation & Activity in the Hyades (and Praesepe): Implications for Gyrochronology</i>	
	Colloquium, Western Washington University	2016
	Seminar, University of Washington	2016
	<i>A Tale of Two Clusters: Activity and Rotation in Praesepe and the Hyades</i>	
	Seminar, Center for Astrophysics Harvard & Smithsonian	2015
	Seminar, NASA Ames Research Center	2015
	<i>An Inquiry-Based Lesson in Programming Practices</i>	
	Contributed talk; Python in Astronomy	2016
	<i>Rotation in Fully Convective Hyades Stars</i>	
	Contributed talk; K2 Science Conference	2015
Telescope Time Awarded	<i>Gemini-S (DSSI/Zorro)</i> 5 nights (NOAO)	2019
	<i>Keck II (NIRC2-LGS)</i> 2.5 nights (NASA)	2017–2018
	<i>Magellan (M2FS)</i> 7.5 nights	2018–2019
	<i>MMT (Hectochelle)</i> 13.5 nights	2017–2019
	<i>FLWO 1.5m (TRES)</i> 27.5 nights	2018–2019
	<i>WIYN 3.5m (Hydra)</i> 4 nights (NN-EXPLORE)	2016–2019
	Co-I: 14.5 nights	
	<i>Kepler/K2</i>	2014, 2016–2017
	Co-I/Science PI: >1400 long-cadence targets	
	<i>MDM 2.4m (ModSpec)</i> 73 nights	2014–2017

Publication List

First-author Publications

K2 Rotation Periods for Low-mass Hyads and a Quantitative Comparison of the Distribution of Slow Rotators in the Hyades and Praesepe.

Douglas, Curtis, Agüeros, Cargile, Brewer, Meibom, Jansen, 2019, *ApJ*, 879, 100

Poking the Beehive from Space: K2 Rotation Periods for Praesepe.

Douglas, Agüeros, Covey, Kraus, 2017, *ApJ* 842, 83

K2 Rotation Periods for Low-mass Hyads and the Implications for Gyrochronology.

Douglas, Agüeros, Covey, Cargile, Barclay, Cody, Howell, Kopytova, 2016, *ApJ*, 822, 1

The Factory and the Beehive II: Activity and Rotation in Praesepe and the Hyades.

Douglas, Agüeros, Covey, Bowsher, Bochanski, Cargile, Kraus, Law, Lemonias, Arce, Fierroz, Kundert, 2014, *ApJ*, 795, 161

Co-authored Publications

A Temporary Epoch of Stalled Spin-Down for Low-Mass Stars: Insights from NGC 6811 with Gaia and Kepler.

Curtis, Agüeros, **Douglas**, Meibom, 2019, *ApJ*, 879, 49

A search for radius inflation among active M-dwarfs in Praesepe.

Jackson, Jeffries, Deliyannis, Sun, **Douglas**, 2018, *MNRAS*, 483, 1125

Are Starspots and Plage Co-Located on Active G and K Stars?

Morris, Curtis, **Douglas**, Hawley, Borra, Agüeros, Agol, 2018, *AJ*, 156, 203

Zodiacal Exoplanets in Time (ZEIT) VIII: A Two Planet System in Praesepe from K2 Campaign 16

Rizzuto, Vanderburg, Mann, Kraus, Dressing, Agüeros, **Douglas**, 2018, *AJ*, 196, 195

Zodiacal Exoplanets in Time (ZEIT). VII. A Temperate Candidate Super-Earth in the Hyades Cluster.

Vanderburg, Mann, Rizzuto, Bieryla, Kraus, Berlind, Calkins, Curtis, **Douglas**, Esquerdo, Everett, Horch, Howell, Latham, Mayo, Quinn, Scott, Stefanik, 2018, *AJ*, 156, 2

A New Look at an Old Cluster: The Membership, Rotation, and Magnetic Activity of Low-Mass Stars in the 1.6-Gyr-Old Open Cluster NGC 752

Agüeros, Bowsher, Bochanski, Cargile, Covey, **Douglas**, Kraus, Kundert, Law, Ahmadi, Arce, 2018, *ApJ*, 862, 1

astroplan: An Open Source Observation Planning Package in Python.
Morris, Tollerud, Sipocz, Deil, **Douglas**, Medina, Vyhmeister, Smith,
Littlefair, Price-Whelan, Gee, Jeschke, 2017 *AJ*, 155, 128

*The Factory and the Beehive III: PTFEB132.707+19.810, a Low-Mass
Eclipsing Binary in Praesepe Observed by PTF and K2.*

Kraus, **Douglas**, Mann, Agüeros, Covey, Law, Feiden, Rizzuto, Howard,
Isaacson, Gaidos, Torres, Bakos, 2017, *ApJ*, 845, 72

*Demonstrating the Existence of Sub-micron size dust grains in the At-
mospheres of Red L Dwarfs*

Hiranaka, Cruz, Marley, **Douglas**, Baldassare, 2016, *ApJ*, 830, 9

*Linking Stellar Coronal Activity and Rotation at 500 Myr: A Deep Chan-
dra Observation of M37*

Núñez, Agüeros, Covey, Hartman, Kraus, Bowsher, **Douglas**, López-
Morales, Pooley, Posselt, Saar, West, 2015, *ApJ*, 809, 161

Other Products

The Role of Gender in Asking Questions at Cool Stars 18 and 19.

Schmidt, **Douglas**, Gosnell, Muirhead, Booth, Davenport, Mace, 2016,
*Proceedings of the 19th Cambridge Workshop on Cool Stars, Stellar Sys-
tems, and the Sun.*

An inquiry-based programming lesson. **Douglas**, Rice, Derdzinski, 2016,
Proceedings of Python in Astronomy 2016

Python in Astronomy 2016 Unproceedings. Robitaille, Cruz, Greenfield...(+52,
including **Douglas**), 2016, *Proceedings of Python in Astronomy 2016*