

# Stephanie T. Douglas

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| <b>Employment<br/>&amp; Education</b> | <i>Center for Astrophysics   Harvard &amp; 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                          |
| <b>Grants and<br/>Fellowships</b>     | <i>Franklin &amp; Marshall College</i>   |                               |
|                                       | B.A. in Astrophysics, <i>summa cum laude</i>   | 2012                          |
|                                       | 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                          |
| <b>Teaching<br/>Experience</b>        | Colorado College   |                               |
|                                       | <i>Intro Physics I for Life Sciences (lecture)</i>   | Spring 2019                   |
|                                       | Columbia University  |                               |
|                                       | <i>Stars, Galaxies, &amp; Cosmology (lab)</i>  | Fall 2013, Spring 2014 & 2015 |
|                                       | <i>Earth, Moon, &amp; Planets (lab)</i>  | Fall 2014                     |
|                                       | <i>Earth, Moon, &amp; Planets (TA)</i>   | Fall 2012                     |
| <b>First-author<br/>Publications</b>  | <i>K2 Rotation Periods for Low-mass Hyads and a Quantitative Comparison of the Distribution of Slow Rotators in the Hyades and Praesepe.</i> |                               |
|                                       | <b>Douglas</b> , Curtis, Agüeros, Cargile, Brewer, Meibom, Jansen, 2019, <i>ApJ</i> , 879, 100   |                               |
|                                       | <i>Poking the Beehive from Space: K2 Rotation Periods for Praesepe.</i>  |                               |
|                                       | <b>Douglas</b> , Agüeros, Covey, Kraus, 2017, <i>ApJ</i> 842, 83   |                               |
|                                       | <i>K2 Rotation Periods for Low-mass Hyads and the Implications for Gyrochronology.</i>   |                               |
|                                       | <b>Douglas</b> , 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

## Students

Jose Perez-Chavez (Banneker Institute/U. of Arizona) 2019  
*Measuring rotation periods for 30-70 Myr old Sun-like stars using TESS*  
Amanda Ash (CfA REU/U. of North Georgia) 2019  
*Rotationally Modulated Magnetic Variability in Praesepe K and M Dwarfs*  
Valeria Villegas (Banneker Institute/Westminster College;  
now a bridge student at Washington U. St. Louis) 2018  
*Searching for Binaries in the Praesepe Open Cluster*  
Evan Morris (Columbia U.; now a grad student at UCSC) 2017  
*Characterizing T Dwarfs with Medium Resolution Near-Infrared Spectra*  
Co-supervised with K. Cruz & E. Rice

## 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**, (+4) 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**, *AAS Journals*, accepted, arXiv:1808.07068  
*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**, (+5) 2018, *ApJ*, 862, 1  
*Zodiacal Exoplanets in Time (ZEIT). VII. A Temperate Candidate Super-Earth in the Hyades Cluster.* Vanderburg, Mann, Rizzuto, Bieryla, Kraus, Berlind, Calkins, Curtis, **Douglas**, (+9), 2018, *AJ*, 156, 2  
*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, (+10) 2017, *ApJ*, 845, 72  
*Demonstrating the Existence of Sub-micron size dust grains in the Atmospheres of Red L Dwarfs.* Hiranaka, Cruz, Marley, **Douglas**, & Bal-

|                                 |  |            |
|---------------------------------|--|------------|
|                                 | dassare, 2016, <i>ApJ</i> , 830, 9   |            |
|                                 | <i>Linking Stellar Coronal Activity and Rotation at 500 Myr: A Deep Chandra Observation of M37.</i> Núñez, Agüeros, Covey, Hartman, Kraus, Bowsher, <b>Douglas</b> , López-Morales, (+4) 2015, <i>ApJ</i> , 809, 161                             |            |
| <b>Other Products</b>           | <i>The Role of Gender in Asking Questions at Cool Stars 18 and 19.</i> Schmidt, <b>Douglas</b> , Gosnell, Muirhead, Booth, Davenport, Mace, 2016, <i>Proceedings of the 19th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun.</i> |            |
| <b>Professional Development</b> | Institute for Scientist and Engineer Educators, ISEE Professional Development Program (Participant in 2015, Design Team Leader in 2019) Certificate in Inclusive Inquiry STEM Education  | 2015, 2019 |
|                                 | Science Mentoring Workshop Intensive, Harvard University   | 2018       |
|                                 | Center for Teaching and Learning, Columbia University Lead Teaching Fellow   | 2015/2016  |
| <b>Outreach</b>                 | 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 &amp; K2)</i>   | 2015       |
|                                 | <i>Mind the Gap (Between Stars and Planets)</i>  | 2014       |
|                                 | Columbia University Public Astronomy <i>Flares, Fields, and Finding Life</i>   | 2014       |
| <b>Talks</b>                    | <i>Calibrating stellar activity, rotation, and multiplicity with open clusters</i> Colloquium, University of Texas at Austin   | 2019       |
|                                 | CEHW Seminar, Pennsylvania State University  | 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, Carnegie Institution: Dept. of Terrestrial Magnetism  | 2017       |
|                                 | Seminar, Massachusetts Institute for Technology  | 2016       |

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|  | Seminar, Center for Astrophysics   Harvard & Smithsonian   | 2016 |
|  | <i>Rotation &amp; Activity in the Hyades (and Praesepe):<br/>Implications for Gyrochronology</i>             |      |
|  | Colloquium, Western Washington University  | 2016 |
|  | Seminar, University of Washington  | 2016 |
|  | <i>A Tale of Two Clusters:<br/>Activity and Rotation in Praesepe and the Hyades</i>                          |      |
|  | Seminar, Center for Astrophysics   Harvard & Smithsonian   | 2015 |
|  | Seminar, NASA Ames Research Center   | 2015 |
| <b>Recent<br/>Conference<br/>Presentations</b> | <i>The Hyades and Praesepe open clusters as benchmarks<br/>for stellar rotational evolution</i>              | 2019 |
|  | Invited talk; Thinkshop 16: The rotation periods of cool stars   |      |
|  | <i>New spectroscopic orbits for binaries in<br/>the Kepler open cluster NGC 6811</i>                         | 2019 |
|  | Poster; AAS 233  |      |
|  | <i>The Effect of Companions on Rotational Evolution</i>  | 2018 |
|  | Invited Splinter Session Talk; Cool Stars 20   |      |
|  | <i>Constraining magnetic variability in Praesepe with<br/>simultaneous K2 and spectroscopic observations</i> | 2018 |
|  | Poster; Cool Stars 20  |      |
|  | <i>The Effect of Companions on Rotational Evolution</i>  | 2018 |
|  | Contributed Talk; Dwarf Stars and Clusters with K2   |      |
|  | <i>Open Clusters as Laboratories for Stellar Spin-down<br/>and Magnetic Activity Decay</i>                   | 2017 |
|  | Dissertation Talk; AAS 229   |      |
| <b>Service to<br/>Profession</b>               | <i>Testing the Rotation-Activity Relation with the Hyades<br/>and Praesepe</i>                               | 2016 |
|  | Contributed Splinter Session Talk; Cool Stars 19   |      |
|  | <i>K2 Rotation Periods for Low-Mass Hyads<br/>and the Implications for Gyrochronology</i>                    | 2016 |
|  | Poster; Cool Stars 19  |      |
|  | <i>An Inquiry-Based Lesson in Programming Practices</i>  | 2016 |
|  | Contributed talk; Python in Astronomy  |      |
| <b>Service to<br/>Profession</b>               | Referee: AAS Journals (The Astronomical Journal, The Astrophysical Journal), Astronomy & Astrophysics        |      |
|  | Panelist: NSF, NASA  |      |

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| <b>Telescope<br/>Time<br/>Awarded</b> | <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> >1400 long-cadence targets      | 2014, 2016–2017 |
|                                       | <i>MDM 2.4m (ModSpec)</i> 73 nights              | 2014–2017       |
|                                       | <i>XMM-Newton (EPIC)</i>                         | 2014, 2015      |
|                                       | Co-I: 522 ks in Category B, 412 ks in Category C |                 |
|                                       | <i>Swift (XRT)</i>                               | 2015            |
|                                       | Co-I: 63 ks of fill-in time                      |                 |
|                                       |  |                 |

*Updated October 17, 2019*