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Kevin R. Covey

Background

Education

2006 **PhD, Astronomy**, *University of Washington*, Seattle, WA
Thesis: Dynamical Properties of Embedded Protostars & the Luminosity Function of the Galactic Disk
advisors: Professor Suzanne Hawley & Dr. Thomas Greene

2000 **BA, Physics**, *Carleton College*, Northfield, MN
honors: Magna Cum Laude

Employment

2024- **Professor**, *Dept. of Physics & Astronomy, Western Washington University*
2018-2024 **Assoc. Professor**, *Dept. of Physics & Astronomy, Western Washington University*
2014-2018 **Asst. Professor**, *Dept. of Physics & Astronomy, Western Washington University*
2012-2014 **Asst. Astronomer**, *Lowell Observatory*
2009-2012 **NASA Hubble Fellow**, *Cornell University*
2006-2009 **NASA Spitzer Fellow**, *Harvard-Smithsonian Center for Astrophysics*

Honors

2020 **SDSS-IV Architect**
2015-2018 **Time Domain Astrophysics Scialog Fellow**, *Research Corporation*
2014 **NSF Faculty Early Career Development (CAREER) Award**
2012 **Namesake for Main-belt Asteroid 142759 Covey (2002 TQ358)**
2008 **Certificate of Excellence for Distinguished Personal Initiative on Diversity in Astronomy**, *National Society of Black Physicists*
2003-2006 **NASA Graduate Student Research Program Fellow**
2000 **Distinction in the Major**, *Physics & Astronomy Dept.*, Carleton College

Grant Funding

2022 **co-PI, $58.8K to WWU**, *$227k to 5 partner institutions; Murdock RAISE Program*
Characterizing the Tidal Disruption of Inner Galaxy Globular Clusters

2021 **co-PI, $5K**, *LSSTC Enabling Science Award*
Translating a TESS-Tested Eclipsing Binary Preclassifier to LSST: Testing Detection Efficiencies with the PLAsTiCC Dataset

2018 **US Cost PI, $38.5K**, *Chandra Cycle 20 General Observer Grant*
[w/ PI Stelzer] Spin-Down, Dynamos, and Habitability: Chandra/K2 Exploration of Nearby M Dwarfs

2017 **co-PI, $33.3K**, *Research Corporation Scialog Award*
Stellar Multiplicity Meets Stellar Evolution: The APOGEE View

2014 **PI, $631K**, *NSF CAREER Program*
A Systematic Kinematic Survey of Young Milky Way Clusters

2014 **co-PI, $45K**, *NSF Astronomy & Astrophysics Grant Program*
Collaborative Research: Variable Circumstellar Disks: Prevalance, Timescales, & Physical Mechanisms

2012 **PI, $32.7K**, *Mt. Cuba Astronomical Foundation*
Increasing the Efficiency and Science Return of the Discovery Channel Telescope's Large Monolithic Imager with ugrizY Filters

2012 **PI, $5.2K**, *American Astronomical Society Small Research Grant*
Supporting Undergraduate Research at Lowell Observatory: Computing Resources for Studying Star & Planet Formation

2010 **PI, $39K**, *Chandra General Observer Grant*
Measuring X-ray Heating of Circumstellar Disks: Stellar X-ray Flares With Mid-IR Disk Afterglows

2009 **PI, $245K**, *Hubble Fellowship Program*
A Comprehensive Survey for Gas Giants Around Young Stars

2006 **PI, $235K**, *Spitzer Fellowship Program*
The Spitzer Spectroscopic Star Formation Survey

2005 **Co-I, $21K**, *President's Diversity Appraisal Implementation Fund, U. Washington*
The Pre-Major in Astronomy Program (Pre-MAP): Increasing Participation By Underrepresented Students

2003 **PI, $75K**, *NASA Graduate Student Researchers Program*
Determining the Physical Properties of Highly Embedded Actively Accreting Protostars and Proto-Brown Dwarfs

Teaching Experience

Spring 2016-2019, 2022, 2024 **PHYS 486**, *Computational Physics*
Introduction to scientific computing; applications to physical systems
Enrollment: 16 (2024), 15 (2022), 22 (2019), 17 (2018), 21 (2017), 14 (2016)

Winter 2015-2019, 2024 **ASTR 316**, *Stars & Galaxies*
Survey of the properties, structure and evolution of stars and the Milky Way
Enrollment: 19 (2024), 30 (2019), 23 (2018), 21 (2017), 31 (2016), 33 (2015)

Fall 2014-2017, Winter 2023 **PHYS 161**, *Physics with Calculus I*
Introductory mechanics course for science & engineering majors
Enrollment: 60 (2023), 54 (2017), 60+60 (two sections, 2016), 60 (2015), 58 (2014)

Winter 2019-2020, 2022 **PHYS 368**, *Electromagnetism I*
Intermediate E&M: Static electric and magnetic fields; boundary-value problems; Lorentz force; polarization and magnetization in materials.
Enrollment: 21 (2022), 24 (2020); 16 (2019)

Fall 2021 **PHYS 102**, *Physics & Contemporary Issues*
Survey of human energy needs, generation technologies, and economic & environmental impacts
Enrollment: 11 (2021)

Spring 2020 **PHYS 322**, *Electronics*
Lab based electronics course: Resistance; capacitance; high- and low-pass filters; diodes; op-amps
Enrollment: 17 (2020)

Fall 2018-2019 **PHYS 163**, *Physics with Calculus III*
Rotation, oscillations, waves and optics course for science & engineering majors
Enrollment: 54+41 (2019), 57 (2018)

Spring 2015, 2018 & Fall 2015 **ASTR 103**, *Introduction to Astronomy*
Survey of modern astrophysics: light, the Sun, stars, the Milky Way, and cosmology
Enrollment: 145 (Spring 2018), 136 (Fall 2015), 126 (Spring 2015)

Spring 2011 **Physics 118**, *Electricity and Magnetism*, Ithaca College
[Co-Instructor w/ Prof. Luke Keller]
Sophomore-level Electricity and Magnetism course for science majors
Enrollment: 46 students

Service

Profession

2006- **Peer Reviewer**
NSF AST AAG & CAREER Panels; NASA Origins Program; NASA IRTF TAC; Spitzer Galactic Panel; Spitzer Galactic Panel Chair & TAC member; Hubble Space Telescope Stellar Panel; Gemini TAC; ApJ, AJ & MNRAS referee

2019-2024 **SDSS-V MOS Survey Coordinator**

2016-2018 **Chair, Organizing Committee**, *Northwest Astronomers Meeting*

2014-2020 **APOGEE-2 Special Projects Coordinator**

2013-2018 **Co-Chair, Star Clusters Working Group, LSST Science Collaboration**

2013-2016 **American Astronomical Society Institutional Agent**

2013-2014 **Member, Scientific Organizing Committee**, *Cool Stars 18 Scientific Conference*

2012-2014 **Member, NASA Infrared Telescope Facility Time Allocation Committee**

2010-2014 **Member, AAS Committee on the Status of Minorities in Astronomy**

2009-2013 **co-Chair, LSST Stellar Populations Science Collaboration**

2007-2016 **Member, Astro Section Organizing Committee, National Society of Black Physicists**

2005-2006 **Co-Founder**, *UW Pre-Major in Astronomy Program*

2002-2003 **Co-Author**, *'To Feed, To Fix: Diversity and the Astronomy Pipeline at the U.W.'*

University

2017- **co-advisor, WWU Chapter, SACNAS (Society for the Advancement of Chicanos & Native Americans in Science)**

2016-2019 **Member & Finance Steward, WWU Social Justice and Equity Committee**

College

2018-2020 **Chair, WWU Coll. of Sci. & Eng. Equity, Inclusion & Diversity Committee**

2017-2018 **Member, WWU Coll. of Science & Engineering Equity, Inclusion & Diversity Comm**

2015-2017 **Member, WWU CSE Curriculum Committee**

Department

2022- **Chair, WWU Physics & Astronomy Dept.**

2021-2022 **CSE+Physics Department Faculty Ambassador**

2019-2020 **Member, WWU Physics & Astronomy Program Operations Committee**

2018-2019 **Member, WWU Physics & Astronomy Curriculum & Assessment Committee**

2015-2018 **Chair, WWU Physics & Astronomy Curriculum & Assessment Committee**

2015-2018 **Organizer, WWU Physics GRE prep. seminar**

2015-2017 **Organizer, PHYS 190 "Exploring Physics & Astronomy" seminar**

2014-2015 **Member, WWU Physics & Astronomy Curriculum & Assessment Committee**

Undergraduate students supervised

6/2024 - **Faith Benda**, *WWU*
Calculating Tidal Tails of NGC 6569 & 6558 with a Rotating Bar Potential

2/2024 - **Carmen Black**, *WWU*
Identification of Candidate Segue 3 and NGC 6569 Members via Isochrone Analysis

9/2023 - **Kieren Schofield**, *WWU*
Calculating Membership Probabilities for Segue 3 Members

3/2023 - **Mason Van Vleet**, *WWU*
Identification of Candidate Segue 3 Members & Reduction of KOSMOS follow-up spectra

6/2023 - **Sean McAdam**, *WWU*, [Poster Presenter at Nov. 2023 Murdock Science Conference]
Calculating Membership Probabilities for Candidate Tail Members With Realistic Stellar Backgrounds

9/2022 - 6/2024 **Kaylen Gollnick**, *WWU*, [Poster Presenter at Nov. 2023 Murdock Science Conference]
Simulating Tidal Tails of Globular Clusters in the Galactic Bulge

6/2023 - 9/2023 **Bee Tawa**, *WWU*
Generating Synthetic Stellar Properties for Star Particles in Tail Simulations

9/2022 - 2/2023 **Grace Valdez**, *WWU*, [First author on AAS poster]
Simulating Rubin Observatory's Yield of Eclipsing Binaries

6/2022 - 6/2023 **Erika Silva**, *WWU*, [First author on AAS poster & AAS Research note]
Segue 3's Extra-tidal Members are Rare and Hard To Detect

2/2022-6/2022 **Raina Shaw**, *WWU*, [Advisor for Honors Capstone Project]
A gendered critique and comparison of Geology and Physics

9/2021-6/2022 **Erin Howard**, *WWU*, [local advisor on project led by James Davenport (UW)]
Validating a clean sample of TESS Eclipsing Binaries

6/2021-6/2022 **Elliott Khilfeh**, *WWU*, [co-author on ApJ paper on Brackett emission signatures]
Densities and Temperatures of Accretion Streams from Brackett Line Emission in APOGEE Spectra

5/2021-6/2022 **Hunter Campbell**, *WWU*, [first author on ApJ paper on Brackett emission signatures
Densities and Temperatures of Accretion Streams from Brackett Line Emission in APOGEE Spectra

6/2019-6/2021 **Anna Miller**, *WWU*, [first author on two EB papers]
Eclipsing Binaries in the APOGEE DR14 dataset: Photometric Analysis

1/2019-6/2020 **Chase Boggio**, *WWU*, [co-author on two EB papers]
Eclipsing Binaries in the APOGEE DR14 dataset: Radial Velocity Analysis

9/2018-9/2019 **Erin Howard**, *WWU*, [co-author on APOGEENet paper]
Accurate Stellar Parameters For a Neural Network Analysis of APOGEE's Lower Main Sequence

9/2018-9/2019 **Matt Scoggins**, *WWU*, [First author on AAS Research Note; co-author on APOGEENet paper]
Stellar Activity Cycles w/ Flare Measurements; APOGEE Neural Network

9/2018-6/2019 **Mitchell Yourston**, *WWU*
Rotation in Gaia Clusters

9/2018-3/2019 **Karla Burcham**, *WWU*
Subtraction of Photospheric Features from APOGEE Spectra of Accreting YSOs

9/2018-1/2019 **Sonam Choudrie**, *WWU*
Densities and Temperatures of Accretion Streams from Brackett Line Emission in APOGEE Spectra

7/2016-6/2018 **Richard Ballantyne**, *WWU*, [co-author on Fernandez+ Binary paper]
Densities and Temperatures of Accretion Streams from Brackett Line Emission in APOGEE Spectra

6/2016-6/2018 **Jacob Skinner**, *WWU*, [published results in first author paper]
Measuring Mass Ratios and Orbital Properties of M dwarf SB2s in APOGEE spectra

1/2016-6/2018 **Jessica Reyna**, *WWU*, [co-author on two APOGEE/SDSS papers]
Identification of double-lined spectroscopic binaries (SB2s) from APOGEE spectra

9/2016-6/2017 **Elle Ojala**, *WWU*
Errors in extinction laws inferred from protostars with infrared excesses due to circumstellar dust

6/2016-6/2017 **Emmanuel Harley**, *WWU*, [co-author on APOGEE/SDSS data release paper]
Completeness of double-lined spectroscopic binaries (SB2s) from APOGEE spectra

6/2016-1/2017 **Nick Saether**, *WWU*
Color anomalies induced by cool magnetic spots in stellar photospheres

9/2015-1/2017 **Graham Roberts**, *WWU*, [co-author on Fernandez+ Binary paper]
Identification of candidate members of the Alpha Per young Open Cluster

6/2015-6/2017 **Huy Nguyen**, *WWU*
Near-infrared Polarization of Outbursting Young Stellar Objects

6/2015-6/2017 **Martin Fernandez**, *WWU*, [published results in first author paper]
Identification & Characterization of SB2s in the IN-SYNC APOGEE dataset

6/2015-6/2016 **J'Neil Cottle**, *WWU*, [published results in first author paper]
Selecting a Uniform Sample of Candidate YSOs for the APOGEE-2 Survey of the Orion Star Forming Complex

9/2014-5/2015 **Erica Largent**, *WWU*
Measuring Rotation Periods from Kepler/K2 Light Curves of YSOs in Upper Sco

9/2014-5/2015 **Chloe Yugawa**, *WWU*
Identifying Candidate Transiting Planets in Kepler/K2 Light Curves of YSOs in Upper Sco

6/2013-1/2014 **Jessica Luna**, *Univ. of Redlands/Lowell Obs. REU student*
Stellar properties from NIR spectra of YSOs in the Ceph C star forming region

6/2012-6/2014 **Rachel Cooper**, *Clarion Univ./Lowell Obs. REU student*
Calibrating NIR Spectral Indices for YSOs

12/2009- **Hong Yu Xiao**, *Cornell Univ*, [published results in first author paper]
7/2011 Rotation Periods of T Tauri Stars from TrES light curves

10/2010- **Natasha Batalha**, *Cornell Univ*, [co-author on PTF/Praesepe paper]
6/2011 Serendipitous Periodic Variables in the PTF/Praesepe field

9/2010-6/2011 **Katherine Hamren**, *Cornell Univ*, [second author on first Cool KOIs paper]
Stellar Parameters of Kepler Objects of Interest from TripleSpec Spectra

5/2010-6/2011 **Chris Faesi**, *Indiana Univ./Cornell Univ. REU Student*, [published results in first author paper]
Spectral Variability of YSOs in the ρ Oph YSOVAR field

2/2011-6/2011 **Michele Silverstein**, *Cornell Univ*
Rotation Periods of Periodic Variables in the PTF/NGC 752 field

2/2010-8/2010 **Jing Yee Chee**, *Cornell Univ*
Simulating LSST's Ability to Measure Stellar Rotation Periods

2/2010-5/2010 **Melissa Halford**, *Cornell Univ*
Classification of Optical spectra for Bright sources in the PTF/Praesepe field

6/2010-8/2010 **Angie Wolfgang**, *Smithsonian Summer Intern*
Classification and characterization of X-Ray Sources from the Chandra Multiwavelength Project

6/2010-8/2010 **Greg Mosby**, *Smithsonian Summer Intern*
[co-mentor with Lori Allen]; stellar properties of YSOs in Orion A from Hectospec optical spectra

11/2007- **Kacey Abaraoha**, *Harvard Univ*
5/2008 Identification of New YSO Members of Taurus from TrES light curves and FLWO spectra

6/2007-8/2007 **Eric Baxter**, *Smithsonian Summer Intern*, [published results in first author paper]
Inferring the distance to NGC 2264 from the inclination of its stellar members

Graduate students advised

2018-2022 **Daniel Krolikowski**, *Univ. of Texas PhD Student*
[external committee member]
Membership and Binarity in the Taurus Molecular Cloud

2013-2018 **Alejandro Nunez**, *Columbia Univ. PhD Student*
[external committee member]
Coronal Emission from low-mass members of benchmark open clusters

2016-2018 **John Lurie**, *Univ. of WA PhD Student*
[external committee member]
Tidal Synchronization of Eclipsing Binaries in the Kepler Field

2012-2017 **Stephanie Douglas**, *Columbia Univ. PhD Student*
[external committee member]
Rotation and Chromospheric Activity in low-mass members of the Hyades & Praesepe Open Clusters

2014-2015 **Andrew Riddle**, *Univ. of Texas PhD Student*
[external committee member]
Stellar parameters of young, low-mass eclipsing binaries

2012-2014 **Sarah Smith**, *Northern Arizona Univ. Masters Student*
Calibrating Emission Lines with Near Simultaneous Accretion Luminosities

2009-2011 **Barbara Rojas-Ayala**, *Cornell Univ. PhD Student*
[committee member]
Metallicity and Temperature Indicators in NIR spectra of low-mass stars

Select Invited Talks

Apr. 2022 **SDSS-V: Status + Science Opportunities**
Second Chilean SDSS-V Collaboration Meeting, Chile (via Zoom)

Jan. 2021 **Things Fall Apart: surveying the destruction of young Milky Way clusters with APOGEE & Gaia**
Astrophysics Seminar, Florida State Univ., Tallahassee, USA

Nov. 2020 **SDSS-V Open Fiber Call**
Chilean SDSS-V Focus Meeting, Chile (via Zoom)

June 2020 **Star Formation 101**
SDSS-IV/V Plenary Talk, Zoom, the internet

Jan. 2020 **Things Fall Apart: surveying the destruction of young Milky Way clusters with APOGEE & Gaia**
Astronomy Dept. Colloquium, Univ. of Washington, Seattle, USA

Sept. 2018 **Stellar Astrophysics with Large Scale Photometric Surveys: the post-Gaia Landscape**
ESO Workshop: A revolution in stellar physics with Gaia and large surveys, Warsaw, Poland

Nov. 2017 **Surveying the kinematics, multiplicity, and star formation histories of low-mass stars & Milky Way clusters with APOGEE**
Astronomy Seminar, NRC Herzberg, Canada

June 2017 **The Large Synoptic Survey Telescope: Status & Opportunities**
LSST:UK Team Meeting, Univ. of Hertfordshire, UK

Nov. 2016 **Spots, Spins & Flares: Windows into the Evolution of Stellar Angular Momentum & Magnetic Activity**
Astronomy Dept. Colloquium, Univ. of California, Berkeley

Nov. 2015 **Measuring Stellar Kinematics in the Youngest Clusters with APOGEE**
Astronomy Dept. Colloquium, Univ. of Washington, Seattle, USA

May 2015 **The Future is Now: Watching Young Stars Age with Next-Gen Synoptic Surveys**
International Astronomical Union Symposium 314, Atlanta GA, USA

Jan 2015 **The INfrared Survey of Young Nebulous Clusters (IN-SYNC): Surveying the Dynamics and Star Formation Histories of Young Clusters with APOGEE**
American Astronomical Society Special Session, Seattle, WA USA

April 2014 **Measuring Stellar Kinematics in the Youngest Clusters with APOGEE**
Astronomy Dept. Colloquia, Univ. of California, Santa Cruz
& Univ. of Texas

March 2013 **The Evolution of Stellar Angular Momentum From Myrs to Gyrs**
Physics & Astronomy Dept. Colloquium, Univ. of Oklahoma

Feb. 2013 **Measuring Stellar Kinematics in the Youngest Clusters with APOGEE**
High Energy & Astrophysics Seminar, Univ. of Utah

Feb. 2013 **The Evolution of Stellar Angular Momentum From Myrs to Gyrs**
Astronomy Dept. Colloquium, Univ. of Florida

June 2012 **The Evolution of Stellar Angular Momentum From Myrs to Gyrs**
Cool Stars 17 Splinter Session, Barcelona, Spain

April & June 2013 **Nasty, Brutish & Short: The Lives & Deaths Of Milky Way Clusters [Public Talk]**
West Valley Astronomy Club, Surprise, AZ;
Oregon Museum of Science & Industry Science Pub, Hillsboro OR

Publication List

Note on author order: in Astronomy, the convention is to list authors in declining order based on their contribution: first author led the analysis, second author provided the next most significant contribution, followed by the third, etc. No special significance for last author. Formal collaborations (i.e., the Sloan Digital Sky Survey) adopt tiered ordering systems, which follow the same principle (ie, higher tiers made a larger contribution to a specific result).

WWU student co-authors are **underlined.**
Asterisks (*) mark co-equal co-authors, as documented in the published author list.

A. First-Author Peer Reviewed Publications

A1 A Differential Measurement of Circumstellar Extinction for AA Tau's 2011 Dimming Event
***Covey, K. R.**, *Larson, K., Herczeg, G., Manara, C., 2021, *AJ*, 161, 61

A2 Why are Rapidly Rotating M Dwarfs in the Pleiades so (Infra)red? New Period Measurements Confirm Rotation-Dependent Color Offsets From the Cluster Sequence
Covey, K. R., Agüeros, M., Law, N., Liu, J., Ahmadi, A., Laher, R., Levitan, D., Sesar, B., Surace, J., 2016, *ApJ*, 822, 81

A3 PTF10nvg: An Outbursting Class I Protostar in the Pelican/North American Nebula
Covey, K. R., Hillenbrand, L. A., Miller, A. A., [27 PTF co-authors], 2011, *AJ*, 141, 40

A4 The Age, Stellar Content and Star Formation Timescale of the B59 Dense Core
Covey, K. R., Lada, C., Roman-Zuniga, C., Muench, A., Forbrich, J., Ascenso, J., 2010, *ApJ*, 772, 971

A5 The Luminosity and Mass Functions of Low-Mass Stars in the Galactic Disk: I. The Calibration Region
Covey, K. R., Hawley, S., Bochanski, J., West, A., Reid, I., Golimowski, D., Davenport, J., Henry, T., Uomoto, A., 2008, *AJ*, 136, 1778

A6 The ChaMP Extended Stellar Survey (ChESS): Photometric and Spectroscopic Properties of Serendipitously Detected Stellar X-ray Sources
***Covey, K. R.**, *Agüeros, M., Green, P., Haggard, D., Barkhouse, W., Drake, J., Evans, N., Kashyap, V., Kim, D.-W. Mossman, A., Pease, D., Silverman, J., 2008, *ApJS*, 178, 339

A7 Stellar SEDs from 0.3–2.5 Microns: Tracing the Stellar Locus and Searching for Color Outliers in SDSS and 2MASS
Covey, K. R., Ivezić, Ž., Schlegel, D., Finkbeiner, D., Padmanabhan, N., Lupton, R., Agüeros, M., Bochanski, J., Hawley, S., West, A., Seth, A., Kimball, A., Gogarten, S., Claire, M., Haggard, D., Kaib, N., Schneider, D., Sesar, B., 2007, *AJ*, 134, 2398

A8 The Radial Velocity Distribution of Class I and Flat-Spectrum Protostars
Covey, K. R., Greene, T. P., Doppmann, G. W., Lada, C. J., 2006 *AJ*, 131, 512

A9 The Angular Momentum Content and Evolution of Class I/Flat Spectrum Protostars
Covey, K. R., Greene, T. P., Doppmann, G. W., Lada, C. J., 2005 *AJ*, 129, 2765

A10 A Reinvestigation of the Possible Metallicity Spread in NGC 3201
Covey, K.R., Wallerstein, G., Gonzalez, G., Vanture, A., Suntzeff, N., 2003, *PASP*, 115, 819

B. Student Advisees' Peer Reviewed Publications

B11 Pre-main Sequence Brackett Emitters in the APOGEE DR17 Catalog: Line Strengths and Physical Properties of Accretion Columns
Campbell, H., **Khilfeh, E.**, **Covey, K. R.**, Kounkel, M., **Ballantyne, R.**, **Corey, S.**, +[18 APOGEE Co-authors], 2022, *ApJ*, 942, 22

B12 Untangling the Galaxy III: Photometric Search for Pre-main Sequence Stars with Deep Learning
McBride, A., Lingg, R., Kounkel, M., **Covey, K. R**, Hutchinson, B. 2021, *AJ*, 162, 282

B13 2M17091769+3127589: a mass transfer binary with an extreme mass ratio
Miller, A., Kounkel, M., Sun, M., Dixon, D., **Boggio, C.**, **Covey, K. R.**, Stassun, K., Mathieu, R. 2021, *AJ*, 162, 131

B14 Orbital & Stellar Parameters for 2M06464003+0109157: A Double-Lined Eclipsing Binary of Spotted, Sub-Solar Twins
Miller, A., **Boggio, C.**, Kounkel, M., **Covey, K. R.**, 2021, *PASP*, 133, 1022

B15 APOGEE Net: Improving the derived spectral parameters for young stars through deep learning
Olney, R., Kounkel, M., **Schillinger, C.**, **Scoggins, M.**, **Yin, Y.**, **Howard, E.**, **Covey, K. R.**, Hutchinson, B., Stassun, K. 2020, *AJ*, 159, 182

B16 44 New & Known M dwarf Multiples in the SDSS-III/APOGEE M Dwarf Ancillary Science Sample
Skinner, J., **Covey, K. R.**, Bender, C., Rivera, N., De Lee, N., Suoto, D. [+25 APOGEE Collaborators], 2018, *AJ*, 156, 45

B17 The APOGEE-2 Survey of the Orion Star Forming Complex: I. Target Selection and Validation with early observations
Cottle, J., **Covey, K. R.**, Suarez, G., Román-Zúñiga, C., Schlafly, E., [+22 APOGEE Collaborators], 2018, *ApJS*, 236, 27

B18 IN-SYNC VI. Identification and Radial Velocity Extraction for 100+ Double-Lined Spectroscopic Binaries in the APOGEE/IN-SYNC Fields
Fernandez, M., **Covey, K. R.**, De Lee, N., Chojnowski, S. D., Nidever, D., **Ballantyne, R.**, Cottaar, M., Foster, J., Meyer, M., **Reyna, A.**, **Roberts, G.**, **Skinner, J.**, Stassun, K., Tan, J., Troup, N., Zasowski, G., 2017, *PASP*, 129, 978

B19 Potential Drivers of Mid-infrared Variability in Young Stars: Testing physical models with multi-epoch near-infrared spectra of YSOs in ρ Oph
Faesi, C., **Covey, K. R.**, Gutermuth, R., Morales-Calderon, M., Stauffer, J., Plavchan, P., Rebull, L., Song, I., Lloyd, J., 2012, *PASP*, 124, 1137

B20 A Census of Rotation and Variability in L1495: A Uniform Analysis of Trans-atlantic Exoplanet Survey Light Curves for Pre-main-sequence Stars in Taurus
Xiao, H., **Covey, K. R.**, Rebull, L., Charbonneau, D., Mandushev, G., O'Donovan, F., Slesnick, C., Lloyd, J., 2012, *ApJS*, 202, 7

B21 Metallicity and Temperature Indicators in M Dwarf K-band Spectra: Testing New and Updated Calibrations with Observations of 133 Solar Neighborhood M Dwarfs
Rojas-Ayala, B., **Covey, K. R.**, Muirhead, P., Lloyd, J., 2012, *ApJ*, 748, 93

B22 Spectral Energy Distributions of Young Stars in IC 348: The Role of Disks in Angular Momentum Evolution of Young, Low-Mass Stars
LeBlanc, T., **Covey, K. R.**, Stassun, K., 2011, *AJ*, 142, 55

B23 Metal-rich M-Dwarf Planet Hosts: Metallicities with K-band Spectra
Rojas-Ayala, B., **Covey, K. R.**, Muirhead, P., Lloyd, J., 2010, *ApJL*, 720, 113

B24 The Distance to NGC 2264
Baxter, E., **Covey, K. R.**, Muench, A., Füresz, G., Rebull, L., Szentgyorgyi, A., 2009, *AJ*, 138, 963

B25 Improved Photometric Calibrations for Red Stars Observed with the SDSS Photometric Telescope
Davenport, J., Bochanski, J., **Covey, K. R.**, Hawley, S., West, A., Schneider, D., 2007, *AJ*, 134, 2430

C. Student Advisees' Non-Peer Reviewed Publications

C26 Extratidal Members of Segue 3 are Rare and Difficult to Confirm
Silva, E, **Covey, K. R.**, **Webster, K.**, Larson, K., Hughes, J., Kunder, A., Price-Whelan, A. 2023, *Research Notes of the American Astronomical Society*, 7, 127

C27 370 New Eclipsing Binary Candidates from TESS Sectors 1-26
Howard, E. L, Davenport, J. R. A, **Covey, K. R.**, 2022, *Research Notes of the American Astronomical Society*, 6, 96

C28 Using Flare Rates to Search for Stellar Activity Cycles
Scoggins, M.T., Davenport, J. R. A, **Covey, K. R.**, 2019, *Research Notes of the American Astronomical Society*, 3, 9

D. Peer Reviewed Publications Co-authored with Postdoctoral Advisees

D29 Double-lined spectroscopic binaries in the APOGEE DR16 and DR17 data
Kounkel, M., **Covey, K. R**, [+26 APOGEE Co-authors] 2021, *AJ*, 162, 184

D30 Untangling the Galaxy II: Structure within 3 kpc
Kounkel, M., **Covey, K. R**, Stassun, K. 2020, *AJ*, 160, 6

D31 Untangling the Galaxy I:
Local Structure and Star Formation History of the Milky Way
Kounkel, M., **Covey, K. R** 2019, *AJ*, 158, 122

D32 Close Companions around young stars
Kounkel, M., **Covey, K. R**, [+27 APOGEE Co-authors] 2019, *AJ*, 157, 196

D33 The Evolution of Flare Activity with Stellar Age
Davenport, J., **Covey, K. R.**, **Clarke, R.**, **Boeck, A.**, **Cornet, J.**, Hawley, S. 2019, *ApJ*, 871, 241

D34 Rotating Stars from Kepler Observed with Gaia DR2
Davenport, J., **Covey, K. R.** 2018, *ApJ*, 868, 151

D35 The APOGEE-2 Survey of the Orion Star Forming Complex II: Six Dimensional Structure
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E. Additional Co-authored Peer Reviewed Publications

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E39 Magnetic Fields in M Dwarf Members of the Pleiades Open Cluster Using APOGEE Spectra
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E40 The Brown Dwarf Kinematics Project (BDKP). VI. Ultracool Dwarf Radial and Rotational Velocities from SDSS/APOGEE High-resolution Spectroscopy
Hsu, C., Burgasser, A., Theissen, C., Birky, J., Aganze, C., Gerasimov, R., Schmidt, S., Blake, C., **Covey, K. R.**, [+5 APOGEE co-authors], 2024, *AAS Journals, submitted; arxiv:2403.13760*

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E43 Rotational Evolution of Classical T Tauri Stars: Models and Observations
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F. Book Chapters

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H. Selected Conference Proceedings

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I. Selected White Papers & Community Publications

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I2 Targeting Young Stars with Kepler: Planet Formation, Migration Mechanisms and the Early History of Planetary Systems
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