

Jessica Schonhut-Stasik

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SUMMARY

Jessica is a doctoral candidate in astronomy at Vanderbilt University. Her planned thesis timeline will see her graduate in Summer 2024. In her career, Jessica has a dual dream, to continue to research novel approaches to Galactic Archaeology, and to support communities in STEM through diversity, equity, inclusion, and accessibility efforts, improvements to science policy, outreach and education, and broader impact in astronomy.

EDUCATION

2020 — Present	PhD (Astronomy) at Vanderbilt University	(GPA: 3.9/4.0)
2019	M.Sc (Astronomy) at University of Hawai'i (at Manoa)	(GPA: 3.8/4.0)
2017	B.Sc (Year 3) at The Open University <i>summa cum laude</i>	(1st Class)
2015	B.Sc (Years 1, 2) at University of Hertfordshire <i>summa cum laude</i>	(1st Class)

CURRENT POSITIONS

2020 — Present **Doctoral Candidate**, Vanderbilt University — *Thesis Advisor*: Keivan G. Stassun
Thesis Topic: Galactic Archaeology in a Large Sample of Evolved Stars, Exploring Multiple Parameter Spaces and a Multi-Method Approach

2022 — Present **Project Manager**, The Frist Center for Autism and Innovation
Responsibilities: Communications, A-SCENE Project Management, Conference Leadership

2022 — Present **Grant Writer**, Maunakea Scholars Program, HI

2022 — Present **Web Designer and Grant Writer**, Aloha 'Ilio Dog Rescue, HI

WORK EXPERIENCE

2019 — 2022 **Telescope System Specialist**, UKIRT Observatory, Maunakea, HI

2019 — 2022 **Web Designer**, UKIRT Observatory, Maunakea, HI

2020 — 2021 **Student Researcher**, Vanderbilt University, Nashville, TN

2019 — 2020 **Student Researcher**, Gemini Observatory, Hilo, HI

Summer 2019 **Student Researcher**, Institute for Astronomy, Hilo, HI

2015 — 2017 **Student Intern**, Institute for Astronomy, Hilo, HI

Summer 2015 **Virtual Reality Engineer**, BAE, Bristol, UK

Summer 2014 **Process Engineer**, Xerox, Hertfordshire, UK

HONORS AND AWARDS

Top Prize in Physics and Astronomy Poster Presentation, Sigma Xi Showcase, 2022

Dai Ho Chun Award, University of Hawaii Foundation, 2018

IfA Outreach Award, University of Hawai'i, 2019

Top 10 Undergraduate Women of the Year Award, Rolls Royce, 2015

University of Hertfordshire Volunteer Award, University of Hertfordshire, 2015

LEADERSHIP AND SERVICE

Frist Center Liason , College Autism Network Board of Directors	Present
Podcast Host , AstronomerAND	Present
Graduate Student Honors Council , Vanderbilt University	Present
College Autism Summit Facilitator , Vanderbilt University	2022
NISE in Space (PI) , Vanderbilt University	2022
Committee Member for APS-IDEAS Group , Vanderbilt University	2022 — Present
American Astronomical Society Astronomy Ambassador , AAS	2022 — Present
Sonification World Chat Group Member , Sonification World Chat	2021 — Present
REU and Akamai Group Mentor , Institute for Astronomy	2018 — 2019
IfA Women's Lunch Leader , Institute for Astronomy	2017 — 2019
Physics Society Founder and Chairperson University of Hertfordshire	2014
STEM Ambassador , Institute of Physics	2013 — 2015
Astrophysics Ambassador , University of Hertfordshire	2013 — 2015

STUDENTS ADVISED

** indicates to students who published papers, or presented conference proceedings based on this work.

Elizabeth Walther	Undergraduate Student 2023
** Angelu Ramos	Undergraduate Student 2022
Hannah Blue	Undergraduate Student 2021
** Kimberly Miskovetz	Undergraduate Student 2020
Julia Cordeiro	High School Student 2020
Sydney Kim	High School Student 2018
Faith Sullivan	High School Student 2018
Claire Lamman	Undergraduate Student 2017
Xavier Tailbit	High School Student 2017

SCIENCE PUBLICATIONS

H-Index = 3; Citations = 35

First-Author Publications

Schonhut-Stasik, J. S., Zinn, J, Stassun, K. G., et al. 2023, *The APO-K2 Catalog: 7,673 Red Giants with Fundamental Stellar Parameters from APOGEE Spectroscopy and K2 Asteroseismology*, ApJ (In Prep.)

Schonhut-Stasik, J. S., Stassun, K. G., 2023, *FluxCT: A Web Tool for Identifying Contaminating Flux in Kepler and TESS Target Pixel Files*, Research Notes of the American Astronomical Society, <https://iopscience.iop.org/article/10.3847/2515-5172/acb936>

Schonhut-Stasik, J. S., Huber, D., Baranec, C., et al. 2020, *ROBO-AO Kepler Asteroseismic Survey. II. Do Stellar Companions Inhibit Stellar Oscillations?*, ApJ, 888, 34. doi:10.3847/1538-4357/ab50c3 <https://ui.adsabs.harvard.edu/abs/2020ApJ...888...34S>

Schonhut-Stasik, J. S., Baranec, C., Huber, D., et al. 2017, *Robo-AO Kepler Asteroseismic Survey. I. Adaptive Optics Imaging of 99 Asteroseismic Kepler Dwarfs and Subgiants*, ApJ, 847, 97. doi:10.3847/1538-4357/aa886f <https://ui.adsabs.harvard.edu/abs/2017ApJ...847...97S>

Nth-Author Publications

Ramos, A., **Schonhut-Stasik, J. S.**, Stassun, K., et al. 2022, *Determining the Habitability of Earth-like Exoplanets Through an Analysis of their Eventual Destruction by Supernova* Research Notes of the American Astronomical Society. <https://iopscience.iop.org/article/10.3847/2515-5172/acbaf9>

Miskovetz, K., Dupuy, T. J., **Schonhut-Stasik, J. S.**, et al. 2022, *Resolving the Multiplicity of Exoplanet Host Stars in Gemini/NIRI Data*, Research Notes of the American Astronomical Society, 6, 8. doi:10.3847/2515-5172/ac488e <https://ui.adsabs.harvard.edu/abs/2022RNAAS...6...8M>

Lamman, C., Baranec, C., Berta-Thompson, Z. K., et al. 2018, *Robo-AO M Dwarf Multiplicity Survey*, APJ <https://ui.adsabs.harvard.edu/abs/2018AAS...23230601L>

Baranec, C., Ziegler, C., Law, N. M., et al. 2016, *Robo-AO Kepler Planetary Candidate Survey. II. Adaptive Optics Imaging of 969 Kepler Exoplanet Candidate Host Stars*, 152, 18. doi:10.3847/0004-6256/152/1/18 <https://ui.adsabs.harvard.edu/abs/2016AJ...152...18B> (*Under maiden name 'Schonhut'. Citations = 54).

PRESENTATIONS

Invited Talks

Schonhut-Stasik, J. S., 2023, *Neurodiversity in and Educational Setting*, American Astronomical Society Meeting 241, Seattle, US <https://www.jessicastasik.com/neurodiversity-in-an-educational-setting>

Contributed Talks

Schonhut-Stasik, J. S., Stassun, K. G. 2023, *The Frist Center for Autism and Innovation* American Astronomical Society Meeting 241, Seattle, US.

Schonhut-Stasik, J. S., Stassun, K. G. 2023, *FluxCT: A Web Tool for Identifying Contaminating Flux in Kepler and TESS Target Pixel Files* American Astronomical Society Meeting 241, Seattle, US <https://www.jessicastasik.com/flux-contamination-tool>

Schonhut-Stasik, J. S., Stassun, K. G. 2023, *FluxCT: A Web Tool for Identifying Contaminating Flux in Kepler and TESS Target Pixel Files* KASC/TASC Workshop, Leuven, Belgium <https://www.jessicastasik.com/flux-contamination-tool>

Schonhut-Stasik, J. S., Stassun, K. G. 2023, *The APO-K2 Catalog: 8,000 Red Giants with Fundamental Stellar Parameters from APOGEE Spectroscopy and K2 Asteroseismology*, Cool Stars Conference, Toulouse, France.

Schonhut-Stasik, J. S., Zinn, J., Stassun, K., et al. 2022, *The APO-K2 Catalog: 8,000 Red Giants with Fundamental Stellar Parameters from APOGEE Spectroscopy and K2 Asteroseismology*, American Astronomical Society Meeting 240, Pasadena, US <https://ui.adsabs.harvard.edu/abs/2022AAS...24040402S>

Schonhut-Stasik, J. S., 2022, *AstronomerAND: A Podcast Discussing the Intersectionality of Astronomy*, American Astronomical Society Meeting 240, Pasadena, US <https://ui.adsabs.harvard.edu/abs/2022AAS...24034502S>

CONFERENCES

Science Related

Presenter, **AAS241**, Seattle, US, 2023

Presenter, **KASC/TASC**, Leuven, Belgium, 2022

Presenter, **Cool Stars**, Toulouse, France, 2022

Presenter, **AAS240**, Pasadena, US, 2022

Presenter, **Sigma Xi Showcase**, Virtual, 2022

Attendee, **AAS239**, Virtual, 2021

Attendee, **Stellar Spectroscopy and Astrophysical**

Parameterization from *Gaia* to Large Spectroscopic Surveys, Virtual, 2022

Attendee, **AAS238**, Honolulu, US, 2020

Presenter, **Low-Mass Meeting**, Hilo, US, 2019

Attendee, **Extreme Solar Systems 3**, Kona, US, 2015

Attendee, **National Student Space Conference**, Surrey, UK, 2015

Attendee, **UKSEDS Asteroid Workshop**, Oxford University, UK, 2015

Presenter, **South East Physics Network Expo**, London, UK, 2014

Diversity in Science Related

Attendee, **SciAcess**, Virtual, 2021

Attendee, **Women in Data Science**, Vanderbilt University, TN, 2021

Attendee, **APS-IDEAS Conference**, Virtual, 2021

Attendee, **ELSI Symposium - Science in Society**, Virtual, 2021

Presenter, **Future Focus 2**, Honolulu, US, 2017

Neurodiversity Related (or other)

Attendee, **Stanford Neurodiversity Summit**, Virtual, 2022

Facilitator, **College Autism Summit**, Vanderbilt University, TN, 2022

Attendee, **College Autism Summit**, Virtual, 2021

Attendee, **Imagining American National Gathering**, Virtual, 2021

Breakout Room Moderator, **Microsoft Autism at Work**, Virtual, 2021

WORKSHOPS

Participant, **Supporting Your Introductory Astronomy Courses**, Seattle, US, 2023

Facilitator, **Outreach Workshop**, University of Hawaii, HI, 2022

Participant, **APS Science Trust Workshop**, Virtual, 2022

Participant, **WriteNOW! Writing Workshop**, Virtual, 2022

Participant, **How to Give Effective Presentations**, Pasadena, US, 2022

Participant, **Effective Astronomy Visualizations**, Pasadena, US, 2022

Participant, **ComSciCon ATL**, Virtual, 2022

Participant, **AAS Astronomy Ambassadors Workshop**, Virtual, 2022

Participant, **INSAR Institute Series: Autism and Intersectionality**, Virtual, 2021

Participant, **NISE Seminar: Affective Computing**, Virtual, 2021

Participant, **Writing Workshop**, Virtual, 2021

Participant, **MkPy Python Workshop**, Hilo, HI, 2017

SOFTWARE

Webtool, **FluxCT**, 2023.

FluxCT allows the users to determine potentially contaminating stars in *Kepler* and *TESS* target pixel files.

Web Tool Access: <https://www.jessicastasik.com/flux-contamination-tool>
GitHub repository: <https://github.com/Jesstella/FluxCT>

TEACHING

T indicates teaching assistant or tutor. ** indicates courses taught from my own original curriculum.

** **Python for Astronomy** HISTARS Summer Program (High School) 2022
** **Computational Physics and Astronomy** University of Hawai'i (UG) 2021
** **Python Basics** HISTARS Summer Program (High School) 2018
T **Astronomy Tutor for Student Athletes** Vanderbilt University (UG) 2021
T **ASTRO101** Honoka'a High School (High School) 2020
T **ASTRO101** Manoa Academy (High School) 2020

GRANTS AND FUNDING

Lacy-Fischer Interdisciplinary Research Grant (PI) (\$7,500) Vanderbilt University 2023
Graduate School Travel Grant (\$500) Vanderbilt University 2023
HISTARS Award (\$1,000) University of Hawai'i 2022
Graduate Student Travel Grant (\$500) Vanderbilt University 2021
Curb Public Scholars Grant (\$2,000) Curb Center 2021
NISE Fellowship (PhD Stipend) Frist Center for Autism and Innovation 2021
Curb Public Scholars Grant (\$2,000) Curb Center 2021
HISTARS Award (\$500) University of Hawai'i 2018
Graduate Student Organization Award (\$600) University of Hawai'i 2018
Graduate Student Organization Award (\$600) University of Hawai'i 2017
Outreach Grant (\$1,000) Institute of Physics 2015
Student Union Grant (2 x \$500) University of Hertfordshire 2015

PUBLIC ENGAGEMENT

Co-Facilitator, **HISTARS Summer Program**, Maui, HI, 2022
Stage Manager, **Astroday**, Hilo and Kona, HI, 2020 — Present
Educator, **Skype a Scientist**, Virtual, 2020 — 2021
Podcast Guest, **Starts with a Bang**, Virtual, 2020
Film Maker and Educator, **Manoa Academy**, Virtual, 2020
Outreach Ambassador, **MKO@Home**, Virtual, 2020
Activity Supervisor, **He'e Fair**, Hilo, HI, 2019
Activity Supervisor, **IfA Open House**, Manoa, HI, 2019
Activity Supervisor, **IfA School Visits**, Hilo, HI, 2018 — 2019
Student Mentor, **HISTARS Summer Program**, Maui, HI, 2018
Activity Supervisor, **Astrobash**, Waimea, HI, 2018
Activity Supervisor, **Solar System Walk**, Waimea, HI, 2018 — 2020
Student Mentor, **Maunakea Scholars Program**, Hilo, HI, 2016 — Present
Judge, **Science Fair**, Hilo, HI, 2015 — 2016
Workshop Leader, **Onizuka Day**, Hilo, HI, 2015
Activity Supervisor, **Astroday**, Hilo and Kona, HI, 2015 — 2022
Educator, **Journey Through the Universe**, Hilo, HI, 2015
Activity Supervisor, **Kealakehe Elementary Science Night**, HI, 2015
Planetarium Operator, **Bayfordbury Observatory**, Hertfordshire, UK, 2013 — 2015

MEMBERSHIPS

** Indicates current memberships

** **American Astronomical Society** — Graduate Student Member

** **American Physics Society** — Graduate Student Member

** **International Society for Autism Research** — Graduate Student Member

** **Sigma Xi** — Full Member

Royal Astronomical Society — Fellow

Institute of Physics — Student Member