

# Jessica Schonhut-Stasik

 [Jesstella](#) |  [jessica-schonhut-stasik](#) |  [jessicastasik.com](#) |  [jessica.s.stasik@vanderbilt.edu](mailto:jessica.s.stasik@vanderbilt.edu) |  +(808)-971-1218

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

## CURRENT POSITIONS

---

2020 — Present **Doctoral Candidate**, Vanderbilt University  
*Thesis Advisor:* Keivan G. Stassun *Thesis Topic:* Galactic Archaeology of K2 Stars

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

---

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

## STUDENTS ADVISED

---

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

** <b>Angelu Ramos</b>	Undergraduate Student 2022
<b>Hannah Blue</b>	Undergraduate Student 2021
** <b>Kimberly Miskovetz</b>	Undergraduate Student 2020
<b>Julia Cordeiro</b>	High School Student 2020
<b>Sydney Kim</b>	High School Student 2018
<b>Faith Sullivan</b>	High School Student 2018
<b>Claire Lamman</b>	Undergraduate Student 2017
<b>Xavier Tailbit</b>	High School Student 2017

## SCIENCE PUBLICATIONS

---

H-Index = 3; Citations = 30

### 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 (In Press.)

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>

## 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

---

- Graduate School Travel Grant** (\$500) Vanderbilt University 2023
- HISTARS Award** (\$800) University of Hawai'i 2022
- Graduate Student Travel Grant** (\$500) Vanderbilt University 2021
- Curb Public Scholars Grant** (\$2000) Curb Center 2021
- Curb Public Scholars Grant** (\$2000) Curb Center 2021
- NISE Fellowship** (PhD Stipend) Frist Center for Autism and Innovation 2021
- Curb Public Scholars Grant** (\$2000) 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
- Student Union Grant** (2 x \$500) University of Hertfordshire 2015

## PUBLIC ENGAGEMENT

---

- Co-Facilitator*, **HISTARS Summer Program**, Maui, HI, 2022
- 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 — Present
- 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