HANNAH BISH

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EDUCATION

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July 2022
2016
2010
2014
2016 - present
2014 - 2016
2012 - 2014
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2021
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2013

Rutgers University Academic Excellence Award

TEACHING, MENTORING, AND OUTREACH

Volunteer, Math Alliance Graduate Fair for Underrepresented Students	2021
Mentor, Pre-Major in Astronomy Program (Pre-MAP), University of Washington Supervised research of four undergraduate students	2016 - 2020
Invited Speaker, Everett Astronomical Society, Everett WA	2019
Invited Speaker, Astronomy on Tap, Seattle WA	2019
Volunteer, Meany Middle School Astronomy Outreach, Seattle WA	2019
Organizer, EquiTea Journal Club, University of Washington Planned monthly discussions and workshops about issues of equity and inclusion	2017 - 2019
Volunteer, ARCS Educational Astronomy for Children & Parents, Seattle WA	2017
Volunteer, Planetarium Presenter for Visiting Groups, University of Washington	2016 - 2017
Guest Lecturer, Astronomy Course for Middle School Girls, University of Washington	2016
Teaching Assistant, University of Washington ASTR 101: Intro Astronomy, four terms ASTR 150: The Planets, two terms	2014 - 2016

JOURNAL ARTICLES

FIRST AUTHOR:

- 1. **Bish, H.V.**, Werk, J.K., Di Teodoro, E.M., Peek, J.E.G., Putman, M.E., Zheng, Y. "The Sandwich Model: Kinematics of a Warm Extended Disk in the Milky Way's Circumgalactic Medium" (in prep.)
- 2. **Bish, H.V.**, Werk, J.K., Peek, J.E.G., Putman, M.E., Zheng, Y. "QuaStar: Measuring the Milky Way's Obscured Low-Velocity Circumgalactic Medium" 2021, ApJ, 912, 8
- 3. **Bish, H.V.**, Werk, J.K., Prochaska, J.X.; Rubin, K.H.R.; Zheng, Y.; O'Meara, J.M.; Deason, A.J. "Galactic Gas Flows from Halo to Disk: Tomography and Kinematics at the Milky Way's Disk-Halo Interface" 2019, ApJ, 882, 76

Co-Authored:

- 1. Werk, J.K., Tchernyshyov, K., **Bish**, **H.V.** "Discovery of a Sample of Quasars Behind the Galactic Plane" (in prep.)
 - Contribution: Carried out four half-nights of observations, reduced data for catalog.
- Werk, J.K., Rubin, K.H.R., Bish, H.V.; Prochaska, J.X.; Zheng, Y.; O'Meara, J.M.; Lenz, D.; Hummels, C.; Deason, A.J. "The Nature of Ionized Gas in the Milky Way Galactic Fountain" 2019, ApJ, 887, 89
 - Contribution: Data reduction and analysis of low ions, two figures, scientific discussion.
- 3. Vargas, C.J., **Bish, H.V.**, Acquaviva, V., Gawiser, E.J., Finkelstein, S.L., Ciardullo, R., Ashby, M., Feldmeier, J., Ferguson, H., Gronwall, C., Guaita, L., Hagen, A., Koekemoer, A., Kurczynski, P., Newman, J., & Padilla, N. "To Stack or Not to Stack: Spectral Energy Distribution Properties of Ly-Emitting Galaxies at z=2.1". 2013, ApJ, 783, 26.
 - Contribution: SED fitting and primary data analysis, six figures, scientific discussion.

PRESENTATIONS

ORAL:

AAS #236 205.03 - QuaStar: A First Look at the Milky Way's Hidden CGM	2020
Wolfe Symposium in Astrophysics - Milky Way Gas Kinematics at the Disk-Halo Interface	2018
MUSYC LAE Meeting - SED Properties of $z\sim2-3$ LAEs	2013
Rutgers University - MCMC SED Fitting in CANDELS	2013
Tri-State Astronomy Conference - Physical Properties of LAEs at $z=2.1$	2013
CANDELS Team Meeting - To Stack or Not to Stack: SED Properties of $z=2.1\ LAEs$	2013
MUSYC LAE Meeting - SpeedyMC Results for $z=2.1$ LAEs with CANDELS SEDs	2012

Posters:

AAS $\#225\ 143.55$ - What Determines the Strength of Ly α Emission in Star-Forming Galaxies?	2015
AAS #223 145.05 - To Stack or Not to Stack: Physical Properties of LAEs at $z=2.1$	2014
Aresty Research Symposium - To Stack or Not to Stack: Physical Properties of LAEs at $z=2.1$	2014
AAS #221 147.32 - Physical Properties of Lyman Alpha Emitters in CANDELS	2013

SKILLS

Spectroscopic Analysis Techniques

Observing experience, including Keck HIRES & Apache Point Observatory 3.5-m DIS

SED Fitting

Data Visualization

Languages: Python, IDL, HTML, D3

REFERENCES

Jessica K. Werk

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Associate Professor

Department of Astronomy, University of Washington

Joshua E. G. Peek

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Associate Astronomer, Project Scientist

Data Science Mission Office, Space Telescope Science Institute

Jason Xavier Prochaska

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Professor of Astronomy & Astrophysics

Department of Astronomy & Astrophysics, University of California, Santa Cruz