HANNAH BISH

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University of Washington, Department of Astronomy
3910 15th Ave NE B323, Seattle WA 98195-0002

EDUCATION

Ph.D. Astronomy (expected), University of Washington *2021*
Advisor: Prof. Jessica Werk
Ph.D. Thesis: *CGM Gas Flows in the Milky Way*

M.S. Astronomy, University of Washington *2016*

B.S. Astrophysics, Rutgers University *2014*
Advisor: Prof. Eric Gawiser
Senior Thesis: *Ly-α Emission in High-Redshift Galaxies*

APPOINTMENTS

Graduate Research Assistant, University of Washington *2016-present*
Research: *Kinematics & Structure of Gas Flows in the Galactic Halo*
Advisor: Prof. Jessica Werk

Teaching Assistant, University of Washington *2014-2016*
Courses Taught: Intro Astronomy (ASTR 101), The Planets (ASTR 150)

Research Assistant, Rutgers University *2012-2014*
Research: *Ly-α Emission Strength in Star-Forming Galaxies*
Advisor: Prof. Eric Gawiser

REU Student, American Museum of Natural History *2010*
Research: *High Proper Motion Stars in the SUPERBLINK Survey*
Advisor: Prof. Sebastien Lepine

HONORS AND AWARDS

Graduate Student Prize for Research Excellence, University of Washington *2019*
Best Graduate Student Presentation, Wolfe Symposium in Astrophysics *2018*
Co-I on successful HST Proposal (HST-GO-15154) *2017*
ARCS Graduate Fellowship *2014-2017*
Magna cum laude, Rutgers University *2014*
Honors thesis in Astrophysics, Rutgers University *2014*
Aresty Research Center Grant *2013*
Richard J. Plano Summer Research Internship Award *2013*
Rutgers University Academic Excellence Award *2012*

TEACHING, MENTORING, AND OUTREACH

Mentor, Pre-Major in Astronomy Program (Pre-MAP), University of Washington — *2016-2020*
Supervised research of four undergraduate students

Speaker, Everett Astronomical Society, Everett WA — *2019*

Speaker, Astronomy on Tap, Seattle WA — *2019*

Volunteer, Meany Middle School Astronomy Outreach, Seattle WA — *2019*

Organizer, EquiTea, University of Washington — *2017-2019*

Volunteer, ARCS educational astronomy day for children & parents, Seattle WA — *2017*

Volunteer, Planetarium presenter for visiting groups, University of Washington — *2016*

Lecturer, Astronomy course for middle school girls, University of Washington — *2016*

Teaching Assistant, University of Washington — *2014-2016*
ASTR 101: Intro Astronomy, four terms
ASTR 150: The Planets, two terms

PUBLICATIONS

1. **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, in prep.
2. **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
3. 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
4. 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.

PRESENTATIONS

Talks:

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∼2-3 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 Lyα 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*

AAS #221 147.32 - *Physical Properties of Lyman Alpha Emitters in CANDELS* — *2013*