## GILLIAN DORA BELTZ-MOHRMANN

6911 Stevenson Center, Department of Physics and Astronomy, Vanderbilt University, Nashville, TN 37235 gillian.d.beltz-mohrmann@vanderbilt.edu  $\diamond$  gbeltzmo@wellesley.edu  $\diamond$  (908)-577-2812  $\diamond$  https://gbeltzmo.github.io

## **EDUCATION**

Ph.D., Astrophysics, Vanderbilt University	expected 2022
Advisor: Andreas Berlind	
M.A., Astrophysics, Vanderbilt University	2018
B.A., Astrophysics, German, cum laude, Wellesley College	2016
Advisors: Kim McLeod, James Battat	

## **PUBLICATIONS**

- 4. **Beltz-Mohrmann**, **G. D.**, Berlind, A. A., 2021, "The impact of baryonic physics on the abundance, clustering, and concentration of halos", submitted to The Astrophysical Journal.
- 3. **Beltz-Mohrmann, G. D.**, Berlind, A. A., Szewciw, A. O., 2020, "Testing the Accuracy of Halo Occupation Distribution Modelling using Hydrodynamical Simulations", Monthly Notices of the Royal Astronomical Society, 491, 5771.
- Dale, D. A., Beltz-Mohrmann, G. D., Egan, A. A., Hatlestad, A. J., Herzog, L. J., Leung, A. S., McLane, J. N., Phenicie, C., Roberts, J. S., Barnes, K. L., Boquien, M., Calzetti, D., Cook, D. O., Kobulnicky, H. A., Staudaher, S. M., van Zee, L., 2016, "Radial Star Formation Histories in Fifteen Nearby Galaxies", The Astronomical Journal, 151, 4.
- 1. Souza, S. P., **Beltz-Mohrmann**, G., Sami, M., 2014, "The Light Curve and Period of MT696", The Journal of the American Association of Variable Star Observers, 42, 154.

## RECENT TALKS & POSTERS

Invited Talks	
Johns Hopkins Galaxies and AGN Journal Club	2021
The impact of baryonic physics on the abundance, clustering, and concentration of halos	
Yale Galaxy Lunch	2021
The impact of baryonic physics on the abundance, clustering, and concentration of halos	
Astronomy Journal Club, Vanderbilt	2019
Testing the Accuracy of HOD Modeling using Hydro Simulations	
Meet the Astronomer Night, Dyer Observatory	2018
Large Scale Structure in the Universe	
Public Astronomy Night, Whitin Observatory	2016
LIGO and the Search for Gravitational Waves	
Contributed Talks	
KITP Conference: The Galaxy-Halo Connection Across Cosmic Time	2020
HMF Discrepancies between Hydro and DMO Simulations	
Mock Innsbruck: the connection between galaxies and dark matter haloes	2020
Taking Halo Modeling to the Next Level	
Contributed Posters	
The First Shanghai Assembly on Cosmology and Galaxy Formation	2019
Taking HOD Modeling to the Next Level: Results from SDSS & Hydrodynamic Simulations	
Santa Cruz Galaxy Workshop	2019
Can We Ignore Baryons in Halo Modeling?	
3	

2021 -

2016 -

2015 -

N-Body Shop Collaboration

American Astronomical Society

Sigma Xi: The Scientific Research Honor Society