GILLIAN DORA BELTZ-MOHRMANN

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Ph.D., Astrophysics, Vanderbilt University Advisor: Andreas Berlind	in progress
M.A., Astrophysics, Vanderbilt University	2018
B.A., Astrophysics, Vanderbile Chiversity B.A., Astrophysics, German, cum laude, Wellesley College Advisors: Kim McLeod, James Battat	2016
ESEARCH POSITIONS	
Graduate Student, Vanderbilt University	2016-
LIGO Summer Undergraduate Research Fellow, Caltech	201
Advisors: Alan Weinstein, Jonah Kanner	
NSF REU, University of Wyoming	201
Advisor: Daniel Dale Keck Northeast Astronomy Consortium (KNAC) Summer Research Fellow, Williams Col	lege 2013
Advisor: Steven Souza	2012 201
Undergraduate Research Assistant, Wellesley College	2013–2010
ONORS & AWARDS	
1st place in Vanderbilt Data Science Symposium graduate student poster competition	2019
McMinn Fellowship	201
Akunuri V. Ramayya Award for outstanding Teaching Assistant	2018
Vanderbilt College of Arts and Sciences Graduate Summer Research Award	2018
Vanderbilt Provost Graduate Fellowship	2010
Sigma Xi: The Scientific Research Honor Society Undergraduate Chambliss Astronomy Achievement Award (Honorable Mention)	2010 2010
Wellesley College Sarah Frances Whiting Medal for Achievement in Astronomy	$\frac{2016}{2014}$
IILLS & EXPERIENCE	
Computational Skills	
Languages: Python, C/C++, Ruby, Julia, Rust, Racket, Prolog, MATLAB, bash, git, LAT Parallel Computing: MPI, OpenMP	ΈX
Supercomputing Time	
Allocation Manager: Texas Advanced Computing Center Stampede2 - 118k node hours Gadget-2 & Gadget-4 cosmological simulations, ROCKSTAR halo finder, 2LPTic, CAMB	2017-
Telescope Time	
Wyoming Infrared Observatory 2.3 meter telescope: 80 hours	201
Wellesley College 0.6 meter telescope: 200 hours	2013-2010
Williams College 0.6 meter telescope: 80 hours	2013
EACHING & OUTREACH	
Graduate Teaching Assistant, Intro Astronomy Lab, Vanderbilt University	2016-2019
Co-mentored high school student Caleigh Dennis	2017 - 201

Two-time 1st place winner at Middle Tennessee Science & Engineering Fair

Dyer Observatory Volunteer	2017
Vanderbilt Programs for Talented Youth Volunteer	2017
Vanderbilt Student Volunteers for Science	2016
Physics Tutor, Wellesley College 20	13-2016
v v e	12-2016
DECENIE WALLES	
RECENT TALKS	
Probing the Galaxy-Halo Connection with Satellite Kinematics – AJC, Vanderbilt	2018
Large Scale Structure in the Universe – Meet the Astronomer Night, Dyer Observatory (https://dyer.vanderbilt.edu/lectures-dyer/)	2018
Dark Matter Substructure in Numerical Simulations – AJC, Vanderbilt	2018
Accurate Modeling of Galaxy Clustering on Small Scales – AJC, Vanderbilt	2017
Galactic Conformity in Semi-Analytic Models – AJC, Vanderbilt	2017
LIGO and the Search for Gravitational Waves – Public Astronomy Night, Whitin Observator	y 2016
Detector Characterization for Advanced LIGO – Physics Research Panel, Wellesley College	2015
Tracking Spectral Noise Lines in Advanced LIGO Data – KNAC Fall Research Symposium	2015
Searching for Exoplanets with KELT – Public Astrnomy Night, Whitin Observatory	2014
${\it Muon\ Detection\ as\ Evidence\ of\ Special\ Relativity}$ – Wellesley College Ruhlman Conference	2014
Monitoring Variability in Massive Stars – KNAC Fall Research Symposium	2013
CONFERENCES & WORKSHOPS	
Santa Cruz Galaxy Workshop	2019
http://hipacc.ucsc.edu/PDF/2019SCGW/Beltz-Mohrmann_SantaCruzPoster.pdf	
Summer School on Large Scale Structure, MPA Garching	2018
SciCoder Workshop, Vanderbilt University	2017
227 th American Astronomical Society Meeting	2016
"Tracking Spectral Noise Lines in Advanced LIGO Data" Beltz-Mohrmann, G. , Weinstein, A., Kanner, J., 2016, AAS Meeting #227, #338.09	
225 th American Astronomical Society Meeting	2015
"EDGES: Deep Multi-wavelength and Radial SED Analysis for NGC4485,	2010
NGC4490, and NGC5273" Beltz-Mohrmann , G. , et al., 2015,	
AAS Meeting #225, #250.04	
224 th American Astronomical Society Meeting	2014
"Photometry and Spectroscopy of BD+35 1111 in M38" Souza, S. P., Kwitter, K. B.,	_011
Sami, M., Beltz-Mohrmann , G. , 2014, AAS Meeting #224, #219.05	
PUBLICATIONS	

PUBLICATIONS

- 3. **Beltz-Mohrmann, G. D.**, Berlind, A. A., Szewciw, A. O., 2019, "Testing the Accuracy of Halo Occupation Distribution Modelling using Hydrodynamical Simulations", arXiv:1908.11448, submitted to MNRAS.
- 2. 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", arXiv:1511.03285, 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.