

University of Washington
Astronomy Department
tزدw@uw.edu, tزدwi.github.io

3910 15th Ave NE C319
Seattle, Washington 98195-0002
+1 (310) 963-1923

- Education** *Doctor of Philosophy, Astronomy*
University of Washington, Seattle, WA, intended 2021
- Master of Science, Astronomy*
University of Washington, Seattle, WA, 2016
- Bachelor of Arts, Astronomy & Physics*
Wesleyan University, Middletown, CT, 2015
- Research Experience** *Graduate Research Assistant* September 2015 - Present
University of Washington Astronomy Department, Seattle, WA
- Massive stars, binary stars, stellar populations, stellar evolution, time domain astronomy, Thorne-Zytkow objects.
- Supervisor: Dr. Emily Levesque.*
- Undergraduate Research Assistant* June 2013 - May 2015
Wesleyan University Astronomy Department, Middletown, CT
- X-ray Astronomy, X-ray binaries, X-ray source populations in M51.
- Supervisor: Dr. Roy Kilgard.*
- Keck Northeast Astronomy Consortium REU Student* June 2014 - August 2014
Colgate University Astronomy Department, Hamilton, NY
- Near-Infrared Spectroscopy, star formation, molecular clouds.
- Supervisor: Dr. Jeff Bary.*
- Teaching, Outreach, & Service** *Pre-MAP Graduate Research Mentor* Fall 2018 - Present
University of Washington Pre-Major in Astronomy Program, Seattle, WA
- Research mentor to freshman undergraduate student, supervising multiple on-going projects.
- Graduate Teaching Assistant* October 2015 - March 2017
UW Astronomy Department, Seattle, WA
- Section leader for Astronomy 101 and Astronomy 150 (The Planets). Presented new material, supervised laboratory experiments, and conducted planetarium presentations.
- AoT Organizer & Presenter* October 2016 - Present
UW Astronomy Department, Astronomy on Tap, Seattle, WA
- Event co-organizer, planetarium presenter, and fundraiser for outreach events in local Seattle school districts.
- Graduate Student Representative* September 2018 - Present
UW Astronomy Department, Seattle, WA
- Liaison between graduate students and Astronomy faculty.
- Prospective Graduate Student Visit Coordinator* February 2017 - September 2018
UW Astronomy Department, Seattle, WA
- Responsible for arranging events, hosts, and travel for 8-12 prospective graduate students.

Awards & Activities	<p>International Travel Grant Recipient, International Astronomical Union, Fall 2016</p> <p>High Honors, Wesleyan University Astronomy Department, May 2015</p> <p>Littell Prize, Wesleyan University Astronomy Department, May 2015</p> <p>Presenter, Committee on Undergraduate Research REU Symposium, October 2014</p>
Submitted Papers	<p><i>Short Term Variability of Evolved Massive Stars with TESS</i> Dorn-Wallenstein, T. Z., Levesque, E. M., & Davenport, J. R. A., submitted to ApJ, January 2019</p>
Refereed Papers	<p><i>arcesetc: ARC Echelle Spectrograph Exposure Time Calculator</i> Morris, B. M., Dorn-Wallenstein, T. Z., Levesque, E. M., Sakari, S., Gies, D., Lester, K., Notsu, Y., Youngblood, A., McMillan, R., 2019, Journal of Open Source Software, 4(34), 1130, https://doi.org/10.21105/joss.01130</p> <p><i>aesop: ARC Echelle Spectroscopic Observation Pipeline</i> Morris, B. M. & Dorn-Wallenstein, T. Z., 2018, Journal of Open Source Software, 3(28), 854, https://doi.org/10.21105/joss.00854</p> <p><i>Stellar Population Diagnostics of the Massive Star Binary Fraction</i> Dorn-Wallenstein, T. Z. & Levesque, E. M., 2018, ApJ, 867, 125D</p> <p><i>No Strong Geometric Beaming in the Ultraluminous Neutron Star Binary NGC 300 ULX-1 (SN 2010da) from Swift and Gemini</i> Binder, B., Levesque, E. M., & Dorn-Wallenstein, T. Z., 2018, ApJ, 863, 141</p> <p><i>A Mote in Andromeda's Disk: A Misidentified Periodic AGN behind M31</i> Dorn-Wallenstein, T. Z., Levesque, E. M., & Ruan, J. J., 2017, ApJ, 850, 86D</p>
Unrefereed Conference Proceedings	<p>Contributed Poster: <i>Measuring the Massive Star Binary Fraction with Stellar Population Diagnostics</i> Dorn-Wallenstein, T. Z. & Levesque, E. M., 2019, AAS Meeting 233, 364.17</p> <p>Contributed Talk: <i>Measuring the Massive Star Binary Fraction with Stellar Population Diagnostics</i> Dorn-Wallenstein, T. Z. & Levesque, E. M., 2018, Northwest x Southwest Meeting, University of British Columbia</p> <p>Contributed Poster: <i>A Mote in Andromeda's Disk: A Periodic AGN Behind M31</i> Dorn-Wallenstein, T. Z., Levesque, E. M., & Ruan, J. J., 2018, AAS Meeting 231, 250.28</p> <p>Contributed Talk: <i>There Are (super)Giants in the Sky: Searching for Misidentified Massive Stars in Algorithmically-Selected Quasar Catalogs</i> Dorn-Wallenstein, T. Z. & Levesque, E. M., 2016, IAU Symposium 329: The Lives and Death-Throes of Massive Stars, X-ray Splinter Session, Auckland, NZ</p> <p>Contributed Poster: <i>Properties of the Discrete X-ray Source Population of M51</i> Dorn-Wallenstein, T. Z., Kilgard, R. E., Martlin, C., Kuntz, K. D., Schulman, G, M51 Chandra VLP Collaboration, 2015, AAS Meeting 225, 345.25</p>
Skills	<ul style="list-style-type: none"> • <i>Software</i>: Python, SQL/ADQL, IDL, UNIX, IRAF, TensorFlow, ciao/XSpec • <i>Other</i>: Telescope Operator (Van Vleck Observatory), Drums & Percussion