

# Amber Thrall

arthrall@math.arizona.edu • <https://amber.thrall.me/>

INTERESTS	Group Theory, Lie Groups, Matrix Theory, Topology
EDUCATION	<p><b>University of Arizona</b>, Tuscon, AZ</p> <ul style="list-style-type: none"><li>Ph.D in Mathematics 2018 – Current<ul style="list-style-type: none"><li>In progress</li></ul></li></ul> <p><b>University of Washington Bothell</b>, Bothell, WA</p> <ul style="list-style-type: none"><li>B.S. in Mathematics 2016 – 2018<ul style="list-style-type: none"><li>Cum Laude</li></ul></li></ul> <p><b>Everett Community College</b>, Everett, WA</p> <ul style="list-style-type: none"><li>Associates in Arts and Science (Direct Transfer Agreement) 2014 – 2016</li></ul>
AWARDS & SCHOLARSHIPS	<ul style="list-style-type: none"><li>Mary Gates Research Scholarship Mar 2017 – Dec 2017 Competitive scholarship awarded to approximately 160 students annually across all University of Washington campuses for engaging in research with a faculty mentor. (Press)</li><li>Dean's List, University of Washington Bothell 2016 – 2018 For attaining a quarterly GPA of at least 3.50 in 12 or more numerically graded credits each quarter for three quarters of the academic year.</li><li>Tau Sigma Honors Society, University of Washington Bothell 2016 – 2018 For attaining a GPA of at least 3.50 in 12 or more numerically graded credits in the first quarter as a transfer student.</li></ul>
PUBLICATIONS	<ul style="list-style-type: none"><li>P. Paparella and A. Thrall. Realizing Suleĭmanova spectra via permutative matrices, II, submitted, arXiv: 1806.07036</li><li>S. Hoover, D. McCormick, P. Paparella and A. Thrall. On the realizability of the critical points of a realizable list, in press, <i>Linear Algebra Appl.</i>, <a href="https://doi.org/10.1016/j.laa.2018.06.024">https://doi.org/10.1016/j.laa.2018.06.024</a></li></ul>
RESEARCH EXPERIENCE	<p><b>University of Washington Bothell</b></p> <ul style="list-style-type: none"><li>Undergraduate Research, Mathematics Jan 2017 – Jun 2018<ul style="list-style-type: none"><li>Project: Real Nonnegative Inverse Eigenvalue Problem</li><li>Advisor: Dr. Pietro Paparella</li><li>Focus: Nonnegative matrices, permutative matrices, and real eigenvalues.</li></ul></li><li>Research Experience for Undergraduates, Mathematics Jun 2017 – Aug 2017<ul style="list-style-type: none"><li>Project: Perron Similarities and the Nonnegative Inverse Eigenvalue Problem</li><li>Advisor: Dr. Pietro Paparella</li><li>Focus: Nonnegative matrices, eigenvalues, and critical points.</li></ul></li></ul>
PRESENTATIONS	<ul style="list-style-type: none"><li>S. Hoover, D. McCormick, and A. Thrall. <i>On the realizability of the critical points of a realizable list</i>. MAA Undergraduate Poster Session at the Joint Mathematics Meetings, San Diego, CA. 12 Jan 2018.</li><li>S. Hoover, D. McCormick, and A. Thrall. <i>On the realizability of the critical points of a realizable multiset</i>. University of Washington Bothell 2017 Research Symposium, Bothell, WA. 10 Aug 2017.</li><li>A. Thrall. <i>Permutative Matrices and the Real Nonnegative Inverse Eigenvalue Problem</i>. University of Washington Undergraduate Research Symposium, Seattle, WA. 18 May 2017.</li></ul>
TEACHING EXPERIENCE	<p><b>University of Washington Bothell</b>, Bothell, WA</p> <ul style="list-style-type: none"><li>Undergraduate Teaching Assistant, First Year and Pre-Major Program Sep 2017 – Jun 2018<ul style="list-style-type: none"><li>Hold weekly discussion sections for Pre-Calculus II students going over college success and studying strategies. Sections also review Pre-Calculus II concepts.</li><li>Hold review sessions before upcoming exams for drop-in tutoring.</li><li>Have weekly office hours for students to visit and receive extra tutoring.</li><li>Was an in-class teaching assistant for Business Calculus in Winter 2018.</li></ul></li></ul>
VOLUNTEERISM	<b>Mid-Columbia Pride</b> , Kennewick, WA (defunct)

■ Web Administrator

2013 – 2014

- Restructured website to be more up-to-date and professional. Also maintained the website to display upcoming events.
- Volunteered for various community events.
- Trained my replacement upon leaving.

**COMPUTER  
SKILLS**

Languages: C++ (preferred), C, MATLAB, Python

Applications: MATLAB, Mathematica,  $\text{\LaTeX}$

Operating Systems: Linux (Arch), Windows