

CURTISS LYMAN

Department of Mathematics
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Languages: Matlab, Python, Mathematica, SQL

EDUCATION

6/2025 (exp.)	Ph.D., Mathematics Thesis title: Band Spectrum Singularities for Schödinger Operators Advisor: Alexis Drouot	University of Washington
6/2019	M.S., Applied Mathematics	University of Washington
6/2017	M.S., Mathematics Project title: Minimization of Distance, Geodesics, and Conjugate Points Advisor: Stephen McDowall	Western Washington University
6/2012	B.S., Psychology Cum Laude Honors – top 30% of graduating class	Tulane University

EXPERIENCE

9/2016 – Present	Instructor Courses: Discrete Mathematical Modeling (Summer 2024), Probability Theory (Summer 2023), Business Calculus (Fall 2024, 2023, & 2022), Business Precalculus (Spring 2023, 2022 & Summer 2021), Linear Algebra (Winter 2024, 2023), Algebra Qualifying Exam Prep (Summer 2022, 2021), Precalculus (Fall 2016 – Spring 2017).	University of Washington & Western Washington University
6/2019 – 9/2019	Data Science Consultant - Used natural language processing to create new metrics for the CoffeeMeetsBagel dating app to ensure that users were matched with people they would have a strong connection with. - Successfully communicated mathematical and data science concepts to colleagues without mathematical backgrounds.	CoffeeMeetsBagel
9/2017 – 6/2022	Teaching Assistant Courses: Graduate Algebra I – III (Fall 2020-Spring 2022), Scientific Computing (Spring 2020), Calculus I – III (Fall 2017 – Winter 2020).	University of Washington
3/2024 – 6/2024	Washington Directed Reading Program Mentor Mathematics of Quantum Mechanics Mentees: Amelie Martin & Erik Vank	University of Washington
2014 – 2015	Manager of District Workforce Initiatives - Applied for and was awarded grants up to \$250,000 for the development of programs and curriculum designed to help adults re-entering college or the workforce. - Coordinated with representatives from all four Seattle Community Colleges to ensure the effective implementation of these programs.	Seattle Colleges

RESEARCH

Interests: Partial differential equations in condensed matter physics, such as the study of waves in quantum materials. My work often employs techniques from representation theory, complex analysis, and spectral theory.

Publications: *Band Spectrum Singularities for Schödinger Operators* (Alexis Drouot, L., 2024). [Preprint]. <https://arxiv.org/abs/2410.02092>

ACCOMPLISHMENTS

10/2024	Steve Mitchell Graduate Fellowship for the Love of Math Awarded for excellence in teaching and a clear demonstration of a love for mathematics.	University of Washington
10/2024	Walter J. Michaelis Graduate Fellowship in Mathematics Awarded for excellence in research.	University of Washington
6/2017	Outstanding Graduate for the Math Department Awarded to a single graduate from the department for outstanding performance.	Western Washington University
7/2015 – 6/2017	Elias Bond & Richard Greene Scholarships Merit based scholarships for academics.	Western Washington University

9/2008 – 6/2012	Presidential Scholarship Merit based scholarship for outstanding academics.	Tulane University
2014	Staff Member of the Year	Camp Parsons
2007	Eagle Scout	Troop 375, Burien, WA

PRESENTATIONS AND PROFESSIONAL DEVELOPMENT

1/2025	Joint Mathematics Meetings Invited Talk: <i>Schrödinger Degeneracies of Lattice Potentials</i> .	Seattle, WA
9/2023-Present	Graduate Student Analysis Seminar Invited Talk: <i>Schrödinger Degeneracies of Cubic Lattice Potentials</i> , and participant.	University of Washington
8/2024	Geometric Inverse Problems and Inverse Problems for Elliptic Equations Summer School.	University of California SC
9/2023-6/2024	Mathematics of Topological Insulators Research Group Participant.	University of Washington
9/2022-6/2023	Noncommutative Algebra Research Group Participant.	University of Washington