CONNOR LEHMACHER

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Education

2022 – 2027 Stony Brook University Mathematics PhD (expected) GPA: 4.0

2018 – 2022 Vanderbilt University GPA: 3.9 Math GPA: 4.0
Bachelor of Science in Mathematics and Education (Magna Cum Laude)

Experience

Teaching and Graduate Assistant Stony Brook University

Computer Assisted Mathematical Problem Solving, *Spring 2023*
Calculus B, *Fall 2022*
Graph Theory Research *Clemson University Summer 2019; Vanderbilt University, 2020 - 2022*

Analyzed case work for various graph theory questions with python. Proved bounds using analytic and combinatorial techniques. Used geometric and topological considerations to study graph theory problems. This work resulted in a paper in Discrete Applied Mathematics (doi.org/10.1016/j.dam.2020.04.005), and an honor thesis on graph embeddings which was award highest honors.
University of Chicago Research Experience for Undergraduates (REU) *Summer 2021*

Studied homology theories induced by chain theories. Used category theory, module theory, and simplicial homology to interpret the material. Wrote a summary of the work and presented at the end of the REU.

Awards

Richard J. Larsen Award for Achievement in Undergraduate Mathematics *(2022)* – Vanderbilt Math Department, awarded to senior judged by faculty to have excelled in all aspects of undergraduate mathematics
William Lowell Putnam Competition *(2019)* – 23/120 points, Ranked in the top 478.5
The Math Contest in Modeling (COMAP) *(2019)* – Meritorious Winner
Pi Mu Epsilon: Tennessee Zeta Chapter *(2019)*

Selected Coursework

Graduate Level: *At Stony Brook:* Real analysis, Algebraic Topology, Commutative Algebra, Lie Theory; *At Vanderbilt:* Functional Analysis, Operator Algebras, Algebraic Topology, Geometric Group Theory, Category Theory, Differential Geometry, Riemannian Geometry

Undergraduate Level: Ordinary Differential Equations, Statistics, Partial Differential Equations, Real Analysis, Quantum Mechanics