KYLE HAMMER

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EDUCATION

Doctorate (Ongoing) | *Mathematics* — Expected 2026; GPA: 3.804
University of Kentucky — Lexington, Kentucky

Master of Sciences (Non-Thesis) | *Mathematics* — Degree Awarded May 2023
University of Kentucky — Lexington, Kentucky

Bachelor of Sciences | *Mathematics* — Aug. 2015 – May 2019; GPA: 3.73
California State University, Chico — Chico, California

WORK EXPERIENCE

NSG Error Correcting Codes Intern — June 2019 – January 2020
Intel Corporation — Santa Clara, California
- Worked on Developing Software to improve the efficiency of the code design process that greatly improves likelihood of decoding success for all codes used in Intel Solid State Drives
- Updated the emulation programs for the ECC process and decoding logic

PROJECTS AND RESEARCH

Eigenvalue Statistics for Higher Rank Random and Periodic Schrodinger Operators Fall 2023-Graduation
University of Kentucky — Dissertation Topic

Wegner and Minami Estimates the Lattice Anderson Model (Masters Project) — Fall 2022; Spring 2023
University of Kentucky

Skateboard Tricks and Topological Flips — Spring/Summer 2020
California State University Sacramento — https://arxiv.org/abs/2108.06307

Spanning Tree Formulas For Abelian Covers and L-functions — Fall 2018/Spring 2019
California State University, Chico — https://arxiv.org/abs/1907.04910

Mathematical Model for Determining Thermal Properties of Materials (REUT) — Summer 2018
California State University, Chico

S-Euclidean Imaginary Quadratic Number Fields (REUT) — Summer 2017
California State University, Chico — https://arxiv.org/abs/2203.15223

CONFERENCES AND PRESENTATIONS

Séminaire de Mathématiques Supérieures 2023: Periodic and Ergodic Spectral Problems — Summer 2023
University of Montreal — Student Participant

L-functions of Graph Covers (Poster) — April 2019
Northern California Undergraduate Math Conference

L-functions of Graph Covers (Poster) — February 2019
MAA Section Meeting (San Jose, CA)

Mathematical Model for Determining Thermal Properties of Materials — January 2019
Joint Math Meetings

S-Euclidean Imaginary Quadratic Number Fields — December 2017
West Coast Number Theory Conference

Honors and Awards

Outstanding Graduating Senior   May 2019
Recognized by the faculty of CSU Chico for my years of achievement within the math department

Dean's List   Fall 2017 - Spring 2019
Recognition for 3.5+ GPA at CSU Chico, Received 7 of 8 Semesters Attended

Pi Mu Epsilon Member/ CSU Chico Chapter   May 2018
Merit Based Mathematical Honors Society

Teaching Experience

Pre-Calculus   Fall 2020, Fall 2022
University of Kentucky   Lexington, KY

Calculus 1   Fall 2021
University of Kentucky   Lexington, KY

Calculus II   Spring 2020, Summer 2022 (Primary Instructor), Spring 2023
University of Kentucky   Lexington, KY

Elementary Calculus   Summer 2021 (Co-Taught/Primary Instructor), Spring 2022, Fall 2023
University of Kentucky   Lexington, KY

Calculus III   Summer 2023 (Primary Instructor)
University of Kentucky   Lexington, KY

Skills

Languages: English (Native), German
Programming: Matlab (Primary), Python (Secondary), C++