ELIOT BITTING

Phone: (+1) 314-560-4531 ◇ Email: ecbitting@mail.missouri.edu

EDUCATION

University of Missouri In Progress
Ph.D. in Mathematics
Initial Advisor: Calin Chindris

University of Missouri May 2024
M.A. in Mathematics
Advisor: Rankeya Datta
Thesis: A Study of Flatness

University of Missouri May 2022
B.S. in Mathematics
Minor in Economics and in Japanese Studies

WORK EXPERIENCE

University of Missouri August 2025 - Present
Graduate Instructor

University of Missouri August 2024 - May 2025
Adjunct Instructor

University of Missouri August 2022 - May 2024
Graduate Instructor

RESEARCH INTERESTS

I am interested in algebraic geometry and its connections to commutative algebra. My masters thesis was over descent properties and the Direct Summand Theorem.

RESEARCH EXPERIENCE

Bioinformatics and Machine Learning June 2024 - Present
Supervisor: Dr. Dave Kang United States Department of Agriculture

· Working on learning models of DNA prediction in Python. Wrote training modules for development of larger models

Commutative Algebra Aug 2022 - Present
Supervisor: Dr. Rankeya Datta U. of Missouri

· Read *Introduction to Commutative Algebra* by Michael Atiyah and Ian MacDonald and read *Algebraic Geometry and Commutative Algebra* by Siegfried Bosch. Worked on a thesis on descent properties of different ring maps.

Frame Theory Oct 2020 - May 2021
Supervisor: Dr. Peter Casazza U. of Missouri

· Read *The Art of Frame Theory* by Peter Casazza. Used methods for solving problems in Phase Retrieval.

TALKS

Graduate Algebra Seminar, An Invitation to Valuation Rings, U. of Missouri	Fall 2025
Preprint Seminar, A Study of Flatness, U. of Missouri	Fall 2024
Graduate Student Seminar, Bounds on Presence of Robust Sunflowers, U. of Missouri	Fall 2024
Masters Thesis Presentation, A Study of Flatness, U. of Missouri	Spring 2024
Topics in Random Graphs, Bounds on Presence of Robust Sunflowers, U. of Missouri	Spring 2024
Graduate Student Seminar, Descent of Pure Ring Maps, U. of Missouri	Spring 2024
Graduate Student Seminar, Faithfully Flat Descent, U. of Missouri	Fall 2023

ACADEMIC PROJECTS

A Study of Flatness, Masters Thesis	Spring 2024
Characters of Representation for Algebraic Number Theory	Spring 2023

CONFERENCES ATTENDED

KUMUNU, U. of Missouri	Fall 2025
AMS Regional Sectional, SLU	Fall 2025
KUMUNU, U. of Missouri	Fall 2024
KUMUNU, U. of Missouri	Fall 2023

TEACHING EXPERIENCE

Math 1100: College Algebra — U. of Missouri

- Primary instructor; graded and wrote quizzes
- Fall 2022: 2 sections, 35 students per section
- Fall 2023: 2 sections, 35 students per section

Math 1300: Finite Mathematics — U. of Missouri

- Primary instructor; graded and wrote quizzes
- Spring 2023: 2 sections, 35 students per section
- Spring 2024: 2 sections, 35 students per section
- Fall 2024: 4 sections, 35 students per section

Math 1050: Quantitative Reasoning — U. of Missouri

- Primary instructor; graded and wrote quizzes
- Fall 2025: 2 sections, 35 students per section

VOLUNTEER EXPERIENCE

Math Up! Volunteer, GradeAPlus INC.	Fall 2024
Math Up! Volunteer, GradeAPlus INC.	Fall 2023
Mentor, Directed Readings Program, U. of Missouri	Fall 2023

ACHIEVEMENTS

Lee & Cozette McFarlan Scholarship, awarded by U. of Missouri	2025
Lindsey Vinton Rickey Mathematics Scholarship, awarded by U. of Missouri	2022
Data Fest, U. of Missouri, Second Place	Spring 2022