Erik K. Huter

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Education

Kansas State University August 2023 – May 2027 (expected)

B.S. in Mathematics, B.S. in Statistics and Data Science *Manhattan, KS*

- GPA: 4.00
- University Honors Program
- Math Department Acting Ambassador, Math Club Officer

Research

Fractional Sobolev Spaces on Subsets of the Euclidean space February 2026 – Present

Kansas State University *Manhattan, KS*

- Mentored by Dr. Lizaveta Ihnatsyeva, the goal of the proposed project is to study possible definitions of fractional Sobolev spaces on closed subsets of the Euclidean space, in particular, functions defined on lower-dimensional Ahlfors-regular sets
- The results for this project will constitute my undergraduate thesis
- Supported by K-State I-Center Undergraduate Scholarship, Department of Mathematics

Work

Grading August 2025 – Present

Kansas State University Department of Mathematics *Manhattan, KS*

- Worked closely with professors to grade upper-division undergraduate courses
- Graded courses: Introduction to Modern Algebra, Introduction to Algebraic Systems, Elementary Differential Equations, Discrete Mathematics, Foundations of Analysis, Introduction to Linear Algebra, and Introduction to Number Theory

Tutoring May 2024 – Present

Private Tutoring *Manhattan, KS*

- Tutored students one-on-one in both online and in-person settings
- Taught various undergraduate-level subjects in mathematics and statistics by collaborating with students to reach conceptual understanding

Summer Undergraduate Mathematics and Statistics Accelerator June 2024 – August 2024

Institute for Mathematical and Statistical Innovation, University of Chicago *Chicago, IL*

- Intensive eight-week mathematics and statistics program hosted by IMSI at the University of Chicago to prepare students for graduate school
- Topics covered were abstract linear algebra, probability theory, real analysis, and linear regression
- NSF supported program

Additional Experiences

Putnam/KCMC Problem Solving Seminar August 2025 – Present

Kansas State University Math Department *Manhattan, KS*

- Regular attendee of the problem solving seminar designed to prepare students for Putnam Exam and Kansas Collegiate Mathematics Competition
- Worked with faculty and students to find and provide solutions to various competition-level problems

Open House Ambassador Spring 2026

Kansas State University Math Department *Manhattan, KS*

- Assisted with setup and operation of the K-State Open House for the mathematics department
- Advocated for the department to prospective students and university faculty

Departmental Ambassador Fall 2025

Kansas State University Math Department *Manhattan, KS*

- Helped welcome new undergraduate and graduate students to K-State math department
- Assisted a graduate teaching seminar by working as a mock student

Directed Reading Project – Quaternions and Topology Fall 2024
Kansas State University *Manhattan, KS*

- Mentored by graduate student Jesse Osnes studying quaternions from a topological approach
- Studied introductory topological concepts then studied spin geometry, quaternion manifolds, and the use-cases of quaternions in computer graphics

Directed Reading Project – Mathematical Modeling Fall 2023
Kansas State University *Manhattan, KS*

- Mentored by Dr. Garrett Nelson studying naive to advanced tools used in time-series modeling
- Used R to implement and evaluate various models' efficacy

Recognition & Awards

University Scholar Award, *Kansas State University* August 2023 – May 2027
Sarah G. Sitz Math Scholarship, *K-State Department of Mathematics* AY 2026 – 2027
Leonard E. Fuller Scholarship, *K-State Department of Mathematics* August 2024 – May 2026
I-Center Undergraduate Scholar Award, *K-State Department of Mathematics* 2026
Putnam Exam Award, *2nd best scorer at K-State* 2023
Putnam Exam Award, *1st best scorer at K-State* 2024
Putnam Exam Award, *1st best scorer at K-State* 2025
2nd Place S. Thomas Parker Mathematical Competition, *K-State Department of Mathematics* 2024
2nd Place S. Thomas Parker Mathematical Competition, *K-State Department of Mathematics* 2025
3rd Place Kansas Collegiate Mathematics Competition, *MAA* 2026
Ronald and Rae Iman Scholarship in Statistics, *K-State Department of Statistics* AY 2024 – 2025
Ray and Carolyn Waller Statistics Scholarship, *K-State Department of Statistics* AY 2025 – 2026
Holly C. and E. Beth Fryer Statistics Scholarship, *K-State Department of Statistics* AY 2026 – 2027
College of Arts and Sciences Scholarship, *Kansas State University* AY 2023 – 2024
Leo and Louise Schlicher Best Scholarship, *Kansas State University* AY 2023 – 2024
The Irvin R. Ricklefs Memorial Scholarship, *Kansas State University* AY 2023 – 2024
K-State Semester Honors (×7), *Kansas State University* August 2023 – Present
SOA Exam FM, *Passed FM Exam* April 2025

Coursework

MATH 350 – *Mathematical Scholars Calculus III – Grade: A* Fall 2023
MATH 499B – *Putnam Seminar – Grade: A* Fall 2023
MATH 351 – *Mathematical Scholars Calculus IV – Grade: A* Spring 2024
MATH 512 – *Introduction to Modern Algebra – Grade: A* Fall 2024
MATH 500 – *Mathematical Theory of Interest – Grade: A* Fall 2024
STAT 610 – *Introduction to Mathematical Statistics I – Grade: A* Fall 2024
STAT 611 – *Introduction to Mathematical Statistics II – Grade: A* Spring 2025
MATH 560 – *Introduction to Topology – Grade: A* Spring 2025
MATH 510 – *Discrete Mathematics – Grade: A* Spring 2025
MATH 721 – *Introduction to Real Analysis – Grade: A* Fall 2025
MATH 723 – *Complex Functions – Grade: A* Spring 2026
MATH 882 – *Differential Geometry – Grade: A* Spring 2026
STAT 770 – *Theory of Statistics – Grade: tbd* Fall 2026
MATH 730 – *Abstract Algebra I – Grade: tbd* Fall 2026
MATH 770 – *Introduction to Topology/Geometry I – Grade: tbd* Fall 2026
MATH 821 – *Real Analysis – Grade: tbd* Fall 2026
MATH 731 – *Abstract Algebra II – Grade: tbd* Spring 2027
MATH 770 – *Introduction to Topology/Geometry II – Grade: tbd* Spring 2027
MATH ??? – *course name – Grade: tbd* Spring 2027

Technical Skills

Languages: Python, SQL, R, SAS
Software: LaTeX, Microsoft 365