

Erik K. Huter

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Education

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| <p>Kansas State University, Mathematics, Statistics and Data Science</p> <ul style="list-style-type: none"> • GPA: 4.00/4.00 • University Honors Program • Math Department Acting Ambassador, Math Club Officer | <p>Manhattan, KS
2023 – 2027</p> |
| <p>Derby High School, High School</p> <ul style="list-style-type: none"> • GPA: 4.00/4.00 • Kansas Governor Scholar • Recognized as the top mathematics student in the Class of 2023 | <p>Derby, KS
2019 – 2023</p> |

Research

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| <p>Kansas State University, Undergraduate Researcher</p> <p>Undergraduate thesis research on fractional Sobolev spaces.</p> <ul style="list-style-type: none"> • Topic: Fractional Sobolev Spaces on Subsets of the Euclidean space • Mentored by Dr. Lizaveta Ihnatsyeva to study definitions of fractional Sobolev spaces on closed subsets of the Euclidean space, particularly 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 | <p>Manhattan, KS
2026 – present</p> |
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Work

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| <p>Kansas State University Department of Mathematics, Student Grader</p> <p>Graded various upper-division undergraduate courses in the mathematics department at Kansas State University.</p> <ul style="list-style-type: none"> • 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 | <p>Manhattan, KS
2025 – present</p> |
| <p>Private Tutoring, Mathematics and Statistics Tutor</p> <p>Conducted private tutoring sessions in mathematics and statistics.</p> <ul style="list-style-type: none"> • Tutored students one-on-one in both online and in-person settings • Taught various undergraduate-level subjects by collaborating with students to reach conceptual understanding | <p>Manhattan, KS
May 2024 – present</p> |
| <p>Institute for Mathematical and Statistical Innovation, University of Chicago, Summer Undergraduate Mathematics and Statistics Accelerator</p> <p>Participated in an intensive eight-week program at IMSI to prepare students for the rigors of graduate school.</p> <ul style="list-style-type: none"> • Intensive eight-week program at IMSI designed to prepare students for graduate school • Covered topics in abstract linear algebra, probability theory, real analysis, and linear regression • Supported by the National Science Foundation | <p>Chicago, IL
June 2024 – Aug 2024</p> |

Additional Experience

Putnam and KCMC Problem Solving Seminar

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

Kansas State University
Aug 2025 – present

Open House Ambassador

- 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

Kansas State University
Math Department
Spring 2026

Departmental Ambassador

- Welcomed new undergraduate and graduate students to the math department
- Assisted a graduate teaching seminar by working as a mock student

Kansas State University
Math Department
Fall 2025

Directed Reading Project – Quaternions and Topology

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

Kansas State University
Fall 2024

Directed Reading Project – Mathematical Modeling

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

Kansas State University
Fall 2023

Recognition and Awards

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

Advanced Coursework

- **MATH 721:** Introduction to Real Analysis, Grade: A
- **MATH 821:** Real Analysis, Grade: tbd
- **MATH 723:** Complex Functions, Grade: A
- **MATH 882:** Differential Geometry, Grade: A
- **MATH 730/731:** Abstract Algebra I & II, Grade: tbd
- **MATH 770/771:** Introduction to Topology/Geometry I & II, Grade: tbd
- **STAT 610/611:** Mathematical Statistics I & II, Grade: A
- **STAT 770:** Theory of Statistics, Grade: tbd
- **MATH 512:** Introduction to Modern Algebra, Grade: A
- **MATH 560:** Introduction to Topology, Grade: A
- **MATH 500:** Mathematical Theory of Interest, Grade: A

Technical Skills

Languages: Python, SQL, R, SAS

Software: LaTeX, Microsoft 365