Kale Stahl

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Education

Purdue University, West Lafayette, IN   *Expected:* May 2030
PhD in Mathematics

Kansas State University, Manhattan, KS   May 2024
B.S. Mathematics, B.S. General Physics, University Honors Program

Publications

D.L. Nguyen, **K. Stahl**, and T. Truong. *A new sampling indicator function for stable imaging of periodic scattering media* in Inverse Problems, Volume 39, Number 6, May 9, 2023.
URL: https://iopscience.iop.org/article/10.1088/1361-6420/acce5f/meta

Presentations

2-28-25	Purdue Graduate Analysis Seminar, "A New Sampling Imaging Functional for Imaging Photonic Crystals" – 45 minute talk
12-02-23	Geometric Measure Theory final presentation, "Sobolev Inequalities" – 60 minute talk
11-18-23	Kansas Honors Connections Conference at Emporia State University, "A New Sampling Imaging Functional for Imaging Photonic Crystals"– 10 minute talk
10-30-23	Physics Undergraduate Colloquium at KSU, "A New Sampling Imaging Functional for Imaging Photonic Crystals" – 15 minute talk
02-25-23	Central States Undergraduate Research Conference, "A New Sampling Imaging Functional for Imaging Photonic Crystals" – 15 minute talk
11-29-22	Office of Undergraduate Research & Creative Inquiry Research Showcase – poster
07-15-22	Summer Undergraduate Michigan Mathematics Research Conference – 30 minute talk
04-08-22	JMM 2022 – virtual poster presentation

Teaching and Grading

Purdue University, West Lafayette, IN
Graduate Teaching Assistant

- MA 162: Calculus 3   *Fall 2025*

Kansas State University, Manhattan, KS
Undergraduate Teaching Assistant

- PHYS 325: Modern Physics   *Fall 2022, Fall 2023*
- PHYS 213: Engineering Physics 1   *Spring 2022, Spring 2023, Spring 2024*
- PHYS 101: The Physical World   *Fall 2021*

Undergraduate Grader

- MATH 221: Calculus 2   *Fall 2020, Spring 2021*
- MATH 220: Calculus 1   *Fall 2020*
- MATH 150: Trigonometry   *Fall 2020, Spring 2021*
- MATH 100: College Algebra   *Fall 2020, Spring 2021*

Grants and Fellowships

NSF Graduate Research Fellowship (NSF GRFP)   *2024*