Curriculum Vitae

Jeremy Shahan

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Education
Master of Science, Mathematics, Louisiana State University
Bachelor of Science, Mathematics, Oregon State University
Currently working toward a PhD in Mathematics at Louisiana State University under the guidance of Professor Shawn Walker

Professional Employment
Software Internship at EDT (Engineering Design Team)
Worked with artificial intelligence on the Nvidia Jetson Nano platform. Trained a neural network to recognize and classify images.
Also worked on digital signal processing with the TACWRAP Vita 49 and uWrap Vita 49 to record and project FM broadcastings.

Academic Employment
Graduate Assistantship, Louisiana State University, August 2019 - Present
Courses Taught: Problem Lab in Real Analysis, Calculus, College Algebra
TA for Courses: Graduate Level Real Analysis, Business Calculus
Teacher's Assistant, Oregon State University, September 2018 - March 2019
TA for Linear Algebra II

Technical Skills
Familiar with the programming languages Matlab, Python, C++, C, and Javascript
Have experience with Digital Signal Processing

Research/Teaching Areas of Interest
Interested in researching Applied Mathematics, Numerical Analysis/Approximations, the Finite Element Method, Linear Nonlinear Optimization/Control, Shape Optimization, Applied PDEs
Interested in teaching Linear Algebra, Numerical Linear Algebra, Discrete Mathematics

Conference Talks
- *Shape Optimization with an Unfitted Finite Element Method,* SIAM Annual Meeting, Spokane, WA. (July 8, 2024)
- *Shape Optimization with an Unfitted Finite Element Method*, SCALA, Louisiana State University, Baton Rouge, LA. (January 19, 2024)

Poster Presentations
- *Shape Optimization with an Unfitted Finite Element Method*, ICERM Workshop: PDEs and Geometry: Numerical Aspects, Brown University, Providence, RI. (March, 2024)
- *Shape Optimization with an Unfitted Finite Element Method,* SIAM Texas-Louisiana Sectional Meeting, University of Louisiana at Lafayette, Lafayette, LA. (November, 2023)

Academic Awards

Louisiana State University 2022 Arthur K. Barton Superior Graduate Student Scholarship in Mathematics
Oregon State University 2019 Edward H. Stockwell Award - for excellence in mathematics

Positions Held

President of the LSU SIAM student chapter