Sage Shaw

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Education

Ph.D. in Applied Mathematics – Univeristy of Colorado Boulder 2019 – 2025

M.S. Mathematics – Boise State University 2017 — 2019

B.S. in Mathematics – Southern Oregon University 2008 – 2013

Presentations and Publications

1. Sage B. Shaw and Zachary P. Kilpatrick. "Stimuli shift the position of traveling waves in neural fields with synaptic depression". Poster Presentation for SIADS23. May 2023. URL: https://shawsa.github.io/presentations/20230516_SIADS_poster.html
2. Sage B. Shaw. "Control of Traveling Waves in Adaptive Neural Fields". CU Boulder APPM Comprehensive Exam Presentation. 2023. URL: https://shawsa.github.io/presentations/20230404_comps/index.html
3. Sage B. Shaw and Zachary P. Kilpatrick. "Stimuli shift the position of traveling waves in neural fields with synaptic depression". Poster Presentation for CU APPM recruitment. Mar. 2019. URL: https://shawsa.github.io/presentations/20230310_recruitment_poster.html
4. Sage B. Shaw. "Functional Programming in Python". CU Boulder APPM Graduate Student Seminar. Aug. 2021. URL: https://shawsa.github.io/presentations/grad_seminar20210826/index.html
5. Sage Shaw. "Radial Basis Function Finite Difference Approximations of the Laplace-Beltrami Operator". In: *Boise State University Theses and Dissertations* (Aug. 1, 2019). DOI: 10.18122/td/1587/boisestate. URL: https://scholarworks.boisestate.edu/td/1587
6. Sage B. Shaw, Grady B. Wright, and Varun Shankar. "A Comparison of Rbf-Fd Methods for Solving PDEs on Surfaces". Poster Presentation at SIAM CSE19. 2019
7. Sage B. Shaw. "On the Eigenproblem". Honors Capstone Published through Southern Oregon University. 2013
8. Sage B. Shaw. "The QR Algorithm". Presented at Southern Oregon Arts and Research (SOAR) at Southern Oregon University. 2013
9. Sage B. Shaw. "The Power Method: A Faster Approach to Eigenvectors". Presented at the Northern California Undergraduate Mathematics Conference at Chico State University. 2013

Teaching Assistant Experience

University of Colorado Boulder 2019 – Current

Course Number	Course Name	Term
APPM 3310	Matrix Methods and Applications	Fall 2022
APPM 5560/4560	Markov Processes, Queues, and Monte Carlo Simulations	Spring 2022
APPM 4650	Intermediate Numerical Analysis I	Fall 2021
APPM 1360	Calculus 2 for Engineers	Spring 2021
APPM 2360	Introduction to Differential Equations with Linear Algebra	Fall 2020
APPM 1350	Calculus 1 for Engineers	Fall 2019

Boise State University 2017 – 2019

Course Number	Course Name	Term
MATH 144	Precalculus II: Trigonometry	Spring 2019
MATH 149	Precalculus: Function for Business (FM)	Spring 2019
MATH 144	Precalculus II: Trigonometry	Fall 2018
MATH 144	Precalculus II: Trigonometry	Spring 2018
MATH 143	College Algebra (FM)	Spring 2018
MATH 143	College Algebra (FM)	Fall 2017
MATH 108	Intermediate Algebra	Fall 2017

Awards and Certifications

Summer Research Fellowship - Boise State University 2018

Exam P of the Society of Actuaries 2013

Harry S. Kieval Scholarship Outstanding Jr. 2010

Ronald E. McNair Excellence in Scholarship 2010

Charles & Susan Cook Scholarship 2009