Kyle Monette

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EDUCATION

Ph.D. Applied Mathematics, 2024–2027, University of Rhode Island, Kingston, RI

M.S. Mathematics, 2024, University of Rhode Island, Kingston, RI

B.S. Mathematics, 2022, Clarkson University, Potsdam, NY
　With distinction

EXPERIENCE

Graduate Teaching Assistant　　　　　　　　　　　**August 2022 - present**
University of Rhode Island, Department of Mathematics

Teaching Assistant　　　　　　　　　　　**February 2022 - May 2022**
Williams College, Department of Mathematics

Undergraduate Teaching Assistant　　　　　　　　**August 2020 - December 2021**
Clarkson University, Department of Mathematics

COURSES TAUGHT

University of Rhode Island:
Served as instructor for the following courses. Responsibilities included lecturing, grading, and assessment design.

- MTH103 Applied Precalculus

    - Fall 2022 (45 students)
    - Spring 2023 (42 students)
    - Fall 2023 (45 students)
    - Spring 2024 (40 students)

Additional Course Involvement:

- MTH101 Intermediate Algebra recitations

    - Fall 2022 (15 students)
    - Spring 2023 (15 students)

Williams College:
Hosted office hours and graded assignments during the Spring 2022 semester for MATH307 Computational Linear Algebra.

Clarkson University:
Lead recitations and graded homework for the following courses.

- MA231 Calculus III

    - Fall 2020 (59 students)
    - Fall 2021 (37 students)

- MA232 Ordinary Differential Equations

    - Spring 2021 (23 students)
    - Fall 2021 (24 students)

SERVICE AND ACTIVITIES

Supplemental Video Channel for MTH 103   **Summer 2023 - ongoing**
Created a YouTube channel (@mth103uri) containing worksheet videos and walkthroughs to practice exams. Currently the channel hosts 52 videos with a combined 11,000 views.

Transitioning Homework Software   **Summer 2023**
Migrated homework assignments for two undergraduate courses from WebWork to Edfinity, and assisted faculty in creating supplementary assignments, videos, and software instructions.

Helpdesk Assistance   **Spring 2023**
Served as administrator on WebWork courses to assist students and faculty with tasks such as changing assignment data, resetting passwords, and general site maintenance.

PRESENTATIONS

GMRES – An Iterative Method for Solving Linear Systems (slides)
    University of Rhode Island, Applied Mathematics Seminar   April 2024

Concatenation of Matrix Products (slides)
    Mathematics Conference and Competition of Northern New York (MCCNNY)   March 2024

Gaussian Quadrature and Tridiagonal Matrices (slides)
    University of Rhode Island, MTH472 Numerical Linear Algebra   December 2023

Secret Sharing Schemes (slides)
    Clarkson University, CS556 Cryptography   May 2022

The Double Pendulum: Lagrangian Mechanics and Chaos (slides)
    Mathematics Conference and Competition of Northern New York (MCCNNY)   March 2022

AWARDS AND HONORS

R. Gerald Bradshaw Award for Mathematics	2021
President's List, Clarkson University	2021, 2020, 2018
Dean's List, Clarkson University	2020, 2019

TECHNICAL SKILLS

Maple, MATLAB, WeBWorK, Edfinity, Moodle, Canvas, Brightspace, WordPress, LaTeX, Microsoft Office, Mac-OS

Professional Affiliations

American Mathematical Society (AMS)
Mathematical Association of America (MAA)