

Noah Royce | Curriculum Vitae

📍 Noah Royce

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📞 715-216-1780

RESEARCH INTEREST

Mathematical modeling of physical and biological systems, with a focus on applied differential equations, numerical methods, and scientific computing.

EDUCATION

University of Wisconsin - Whitewater <i>Pure Mathematics Graduate Certificate</i>	Whitewater, WI 03 2023 – Present
University of Wisconsin - Stout <i>M.S. Applied Math and Data Science</i>	Menomonie, WI 09 2023 – 12 2024
University of Wisconsin - Stout <i>B.Sc. Applied Math and Computer Science</i> <i>B.Sc. Applied Science, Applied Physics Concentration</i>	Menomonie, WI 09 2018 – 08 2023

KEY SKILLS

Programming Languages:	Python, R, LaTeX
Python Libraries:	NumPy, SciPy, Pandas, Matplotlib, scikit-learn
Mathematical Tools:	Numerical Analysis, PDE/ODE Solvers, Optimization
Additional:	Git, Jupyter, SQL

RESEARCH EXPERIENCE

University of Wisconsin - Stout <i>Research Assistant, Department of Mathematics, Statistics, and Computer Science</i>	Menomonie, WI 08 2022 – 01 2023
Huntington Ingalls Industries <i>QIS Research Intern, ANT, WPAFB, AFIT</i>	Remote 06 2022 – 01 2023
University of Wisconsin - Stout <i>Research Assistant, Department of Chemistry and Physics</i>	Menomonie, WI 09 2018 – 12 2021

RELEVANT COURSEWORK

Graduate

- **Applied Math:** Scientific Computing, Intro to Applied Mathematics, PDEs
- **Statistics & Data Science:** Machine Learning, Data Mining, Applied Regression Analysis, Probability & Statistics, Database Systems
- **Physics:** Quantum Mechanics

Undergraduate

- **Mathematics:** Real Analysis, Abstract Algebra I–II, Linear Algebra, Differential Equations, Probability & Statistics I–II, Mathematical Modeling, Numerical Analysis I–II
- **Computer Science:** Data Structures, Algorithm Analysis, Formal Languages and Finite Automata

- **Physics:** Quantum Mechanics, Electromagnetism, Optics and Photonics, Statistical Mechanics, Solid State Physics, Classical Mechanics

TEACHING EXPERIENCE

University of Wisconsin - Whitewater at Rock County <i>Adjunct Lecturer, Department of Integrated Studies</i>	Janesville, WI 08 2025 – Present
The Coding School <i>Teaching Assistant and Curriculum Specialist</i>	Remote 06 2025 – 8 2025
University of Wisconsin - Stout <i>Lecturer, Department of Math, Statistics, and Computer Science</i>	Menomonie, WI 01 2025 – 05 2025
University of Wisconsin - Stout <i>Math Tutor, Department of Math, Statistics, and Computer Science</i>	Menomonie, WI 09 2023 – 12 2024
University of Wisconsin - Stout <i>Teaching Assistant, Department of Math, Statistics, and Computer Science</i>	Menomonie, WI 09 2020 – 12 2024
University of Wisconsin - Stout <i>Teaching Assistant, Department of Chemistry and Physics</i>	Menomonie, WI 09 2022 – 01 2023

Courses Taught: Foundations for Intermediate Algebra, Concepts of Mathematics, Calculus with Precalculus B, Elementary Algebra, Beginning and Intermediate Algebra, Quantitative Reasoning, College Algebra, Trigonometry, Calculus and Analytic Geometry I

Courses TA'd: Computational Classical Mechanics, Fundamentals of Algebra, Foundations for Intermediate Algebra, Intermediate Algebra, Concepts of Mathematics

Courses Tutored: Finite Math, College Algebra, Pre-Calculus, Calculus I-III, Linear Algebra, Differential Equations, Statistics, University Physics, Statics and Dynamics, Numerical Methods

PUBLICATIONS

- Feggestad, J., Halvorson, J., Mooney, C. P., Royce, N., & Wanta, N. (2024). **On Magic Type Labelings of Zero-Divisor Graphs.** *International Electronic Journal of Algebra*

CONFERENCE TALKS/POSTERS

Crop Per Drop: Modeling the Growth of Dark Red Kidney Beans <i>MAA Wisconsin Conference (Talk)</i>	Menomonie, WI 04 2023
Magic Type Labelings of Zero-Divisor Graphs <i>MAA Wisconsin Conference (Talk)</i>	Menomonie, WI 04 2023
Analysis of Differential Equation Models of Kidney Bean Yield <i>National Conference of Undergraduate Research (Talk)</i>	Eau Claire, WI 04 2023
Mathematical Modeling to Increase the Crop per Drop for Kidney Beans <i>Research in the Rotunda (Poster)</i>	Madison, WI 04 2023