

Noah Royce | Curriculum Vitae

🌐 Noah Royce

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📞 715-216-1780

RESEARCH INTEREST

I am broadly interested in developing mathematical tools for modeling in the physical and biological sciences as well as introductory mathematics in undergraduate education.

EDUCATION

University of Wisconsin - Stout

M.S. Applied Math and Data Science

Menomonie, WI

09 2023 – 12 2024

University of Wisconsin - Stout

B.Sc. Applied Math and Computer Science

Menomonie, WI

09 2018 – 08 2023

B.Sc. Applied Science, Applied Physics Concentration

KEY SKILLS

Programming Languages:

Python, LaTeX, R

Python Libraries:

Numpy, Matplotlib, Scipy, Sklearn, Pandas

RELEVANT COURSEWORK

Graduate

- Intro to Applied Mathematics
- Probability and Mathematical Statistics
- Scientific Computing
- Machine Learning
- Database Systems
- Data Mining
- Partial Differential Equations
- Quantum Mechanics
- Applied Regression Analysis

Undergraduate

- Quantum Mechanics
- Classical Mechanics
- Solid State Physics
- Statistical Mechanics
- Optics and Photonics
- Electromagnetism
- Real Analysis
- Linear Algebra
- Differential Equations
- Algorithm Analysis
- Formal Languages and Finite Automata
- Numerical Analysis I-II
- Abstract Algebra I-II
- Mathematical Modeling
- Probability and Mathematical Statistics I-II

TEACHING EXPERIENCE

University of Wisconsin - Stout

Lecturer, Department of Math, Statistics, and Computer Science

Menomonie, WI

01 2025 – 05 2025

University of Wisconsin - Stout

Math Tutor, Department of Math, Statistics, and Computer Science

Menomonie, WI

09 2023 – 12 2024

University of Wisconsin - Stout

Teaching Assistant, Department of Math, Statistics, and Computer Science

Menomonie, WI

09 2020 – 12 2024

University of Wisconsin - Stout
Teaching Assistant, Department of Chemistry and Physics

Menomonie, WI
09 2022 – 01 2023

Courses Taught: Foundations for Intermediate Algebra, Concepts of Mathematics, Calculus with Precalculus B

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

RESEARCH EXPERIENCE

University of Wisconsin - Stout
Research Assistant, Department of Mathematics, Statistics, and Computer Science

Menomonie, WI
08 2022 – 01 2023

Huntington Ingalls Industries
QIS Research Intern, ANT, WPAFB, AFIT

Remote
06 2022 – 01 2023

University of Wisconsin - Stout
Research Assistant, Department of Chemistry and Physics

Menomonie, WI
09 2018 – 12 2021

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
MAA Wisconsin Conference (Talk)

Menomonie, WI
04 2023

Magic Type Labelings of Zero-Divisor Graphs
MAA Wisconsin Conference (Talk)

Menomonie, WI
04 2023

Analysis of Differential Equation Models of Kidney Bean Yield
National Conference of Undergraduate Research (Talk)

Eau Claire, WI
04 2023

Mathematical Modeling to Increase the Crop per Drop for Kidney Beans
Research in the Rotunda (Poster)

Madison, WI
04 2023

REFERENCES

- **Dr. Laura Schmidt**
Professor, Department of Math, Statistics, and Computer Science
University of Wisconsin - Stout, Menomonie WI.
schmidtlaur@uwstout.edu
Cell: 715-232-1485
- **Dr. Tyler Skorzewski**
Professor, Department of Math, Statistics, and Computer Science
University of Wisconsin - Stout, Menomonie WI.
skorzewskit@uwstout.edu
Cell: 715-232-5392

- **Dr. Derek Sturgill**

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