

Jack Kinseth

jkinseth@gmu.edu · kinsethjr@gmail.com · (515) 229-5088

2706 9th St S #201, Arlington, VA 22204

EDUCATION & RESEARCH

- **George Mason University**
 - Doctor of Philosophy in Mathematics
May 2028 (expected)
 - Master of Science in Mathematics with an emphasis in computational and applied mathematics
May 2024 (expected)
- **Iowa State University**
Bachelor of Science in Mathematics (Philosophy Minor)
August 2018 - December 2021
- **Research Assistant**
Conditions for matchability in groups and field extensions
(Journal link)
Published in *Linear and Multilinear Algebra*
Spring 2021 - Summer 2021
- **Research Assistant**
A meta-analysis of Boolean network models reveals design principles of gene regulatory networks (Preprint link)
To appear in *Science Advances*
Fall 2018 - Spring 2019

HONORS & AWARDS

- **Phi Beta Kappa Honor Society**
For excellence in liberal arts & science
Inducted Spring 2021
- **Kingland Data Analytics in Liberal Arts and Sciences Scholarship**
Awarded Spring 2020 for Fall 2020 - Spring 2021
- **Dean's High Impact Award for Undergraduate Research**
Awarded Spring 2021 for Summer 2021
- **James L. Cornette Mathematics and Interdisciplinary Studies Scholarship**
Awarded Spring 2020 for Fall 2020 - Spring 2021
- **Fred Wright Mathematics Endowed Scholarship Fund**
Awarded Spring 2021 for Fall 2021

WORK EXPERIENCE & SKILLS

- **Graduate Teaching Assistant, George Mason University**
 - Conducts weekly 50-minute recitations for Calculus I, Calculus III
 - Plans and executes active learning activities
 - Writes, delivers, and grades quizzes to track ~90 students' progress
Fall 2022, Spring 2023, Fall 2023
- **Math Content Specialist, Study.com**
Wrote rich and accessible long-form math lessons primarily in calculus, differential equations, and linear algebra for students at the college level
Winter 2021-Summer 2022
- **Supplemental Instruction Leader, Iowa State University Academic Success Center**
Planned and facilitated three weekly one-hour sessions for multivariable calculus and differential equations students in addition to planning and conducting two-hour exam reviews
Fall 2019, Fall 2020, Spring 2021
- **Technical Skills**
Python (NumPy, Pandas, Matplotlib, scikit-learn, TensorFlow, and PyTorch), Java, \LaTeX , MATLAB, Mathematica, Macaulay2, Microsoft Excel, and R

LEADERSHIP & DEVELOPMENT

- **PAT Math**
(Program for Advanced Teaching of Mathematics)
GMU teaching certification requiring one-on-one training, exam writing, & guest lecturing with a faculty member in addition to several workshops
Spring 2023, Fall 2023
- **Graduate Learning Assistant**
Co-directed three-week Ph.D. LaunchPad Program designed to prepare incoming graduate students for preliminary exams
Summer 2023