

Jack Kinseth — Curriculum Vitae

CONTACT

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

EDUCATION

Ph.D. in Mathematics

Aug. 2022 -

- George Mason University, Fairfax, VA
- Offered admission April 15, 2022
- Fully funded in the amount of \$24,000/year

B.S. in Mathematics

Aug. 2018 - Dec. 2021

- Iowa State University, Ames, IA
- Graduated with *cum laude* distinction
- Minor in Philosophy
- Spring 2020 semester spent at KTH in Stockholm, Sweden

RESEARCH EXPERIENCE

Undergraduate Research Assistant

Jan. 2021 - Aug. 2021

- *Conditions for matchability in groups and field extensions* with Dr. Mohsen Aliabadi, Christopher Kunz, Haris Serdarevic, and Cole Willis as part of ISMaRT program and funded by LAS Dean's High Impact Award for Undergraduate Research in the amount of \$9,600.00. Uploaded to arXiv on July 19, 2021. Published in *Linear and Multilinear Algebra*. Personal feature about the research on [Iowa State University College of Liberal Arts and Sciences website](#).

Undergraduate Research Assistant

Oct. 2018 - May 2019

- *A meta-analysis of Boolean network models reveals design principles of gene regulatory networks* with Dr. Claus Kadelka, Taras-Michael Butrie, Evan Hilton, and Haris Serdarevic. Uploaded to arXiv on September 2, 2020 and presented a poster detailing the project at [ISU Symposium on Undergraduate Research and Creative Expression \(SoURCE\)](#) with Haris Serdarevic on April 17, 2019 entitled *On the Construction of a Gene Regulatory Network Database for Meta-Analyses in Boolean Canalizing Functions*.

SELECTED HONORS & AWARDS

Phi Beta Kappa Honor Society

- For excellence in liberal arts and sciences
- Minimum 3.60 GPA in addition to meeting requirements in mathematics and a foreign language
- Inducted May 2021

LAS Dean's High Impact Award for Undergraduate Research

- For excellence in undergraduate research
- In the amount of \$2,400.00
- Awarded for Summer 2021

Kingland Data Analytics in Liberal Arts and Sciences Scholarship

- For excellence in liberal arts and sciences
- In the amount of \$1,250.00
- Awarded for Fall 2020, Spring 2021 semesters

James L. Cornette Mathematics and Interdisciplinary Studies Scholarship

- For excellence in undergraduate mathematics studies

- In the amount of \$500.00
- Awarded for Fall 2020, Spring 2021 semesters

Fred Wright Mathematics Endowed Scholarship Fund

- For excellence in undergraduate mathematics studies
- In the amount of \$600.00
- Awarded for Fall 2021 semester

Will C. Jumper Award

- For excellence in written poetry
- Maximum ten page original poetry portfolio
- In the amount of \$500.00
- Awarded for Fall 2021 semester

SELECTED COURSEWORK

George Mason University:

Algebra (MATH 621)

- B
- Passed preliminary exam at the end of the Fall 2022 semester

Linear Analysis (MATH 675)

- A-
- Passed preliminary exam at the end of the Fall 2022 semester

Iowa State University:

Differential Equations and Laplace Transforms (MATH 267)

- A

Abstract Algebra I (MATH 301)

- A

Abstract Algebra II (MATH 403X)

- A-

Number Theory (MATH/COM S 350)

- A

Computational Algebraic Geometry (MATH 495)

- B+

EDUCATING & TEACHING

Graduate Teaching Assistant—George Mason University

Fall 2022

- Held two weekly 50-minute recitation sections for Calculus I (MATH 113)
- Each recitation section consists of roughly 40 students
- Plans and executes active learning activities to engage students with the material
- Writes, delivers, and grades quizzes to track students' progress
- Collaborates with course instructor and colleagues to coordinate delivery of the material
- With [Dr. Ahsan Chowdhury](#) in Fall 2022

Math Content Specialist—Study.com

Winter 2021, Spring 2021, Summer 2022

- Wrote rich and accessible long-form math lessons primarily in [calculus](#), [differential equations](#), and [linear algebra](#) for students at the undergraduate level
- Answered individual math questions at the undergraduate level with thorough explanation and contextualization

Supplemental Instructor—ISU Academic Success Center

Fall 2020, Spring 2021

- Planned and facilitated three 50-minute sessions per week for differential equations students
- Planned and hosted three two-hour exam review sessions that typically drew upwards of eighty students
- Worked closely with course instructors to provide quality supplemental lessons for students
- With [Dr. Man Basnet](#) in Fall 2020 and [Dr. Gabriel Khan](#) in Spring 2021

Supplemental Instructor—ISU Academic Success Center

Fall 2019

- Planned and facilitated three 50-minute sessions per week for multivariable calculus students
- Planned and hosted three two-hour exam review sessions that typically drew upwards of eighty students
- Worked closely with course instructor to provide quality supplemental lessons for students
- With [Dr. Yiu Tung Poon](#)

Private K-12 Math Tutor

Fall 2020, Spring 2021

- Planned and facilitated two one-hour tutoring sessions per week via Zoom
- Tutored on topics from elementary mathematics, Pre-algebra, Algebra I, and Geometry
- Established strong foundations for students and provided them with meaningful insight and perspective through examples and connections to more familiar topics

SERVICE & INVOLVEMENT

Phi Beta Kappa

- Volunteered at Phi Beta Kappa induction ceremony
- May 1, 2022

State Science Technology Fair of Iowa

- Volunteered as a judge at this state science & technology fair for students in middle school
- Provided positive and constructive feedback to participants and deliberated with other judges to decide the winners
- March 25, 2022

REFERENCES AVAILABLE TO CONTACT

Dr. Carlos Rautenberg

- Assistant Professor
- Department of Mathematical Sciences, George Mason University
- Email: crautenb@gmu.edu
- Website: <https://math.gmu.edu/crautenb/>

Dr. Rebecca Goldin

- Professor and Director of Graduate Studies
- Department of Mathematical Sciences, George Mason University
- Email: rgoldin@gmu.edu
- Website: <https://science.gmu.edu/directory/rebecca-goldin>

Dr. Jason McCullough

- Associate Professor and Scott Hanna Faculty Fellow
- Department of Mathematics, Iowa State University
- Email: jmccullo@iastate.edu
- Website: <https://faculty.sites.iastate.edu/jmccullo/>

Dr. Mohsen Aliabadi

- Stephen E. Warschawski Assistant Professor
- Department of Mathematics, UC San Diego
- Email: maliabadisr@ucsd.edu
- Website: <https://www.math.ucsd.edu/people/profiles/mohsen-aliabadi>