
Contact Info

Boyd Graduate Research Studies
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Summary

Motivated and independent mathematician with broad interests in technical fields including data science, open source software, and science education.

Andrew is technically minded and grasps abstract concepts quickly. By achieving a fundamental understanding of abstract notions, he is able to communicate these ideas clearly and effectively.

Andrew is at the cutting edge of research on *support variety theory*. By engrossing himself in this mathemat-

ical research, he develops skills that allow him to learn and apply technical disciplines with grace.

Andrew has educated many students through TAs, private tutoring, and serving as instructor of record. By teaching a broad array of courses, he has honed his communication skills. He is comfortable explaining technical concepts in both one-on-one settings and in a lecture setting.

Education

University of Georgia

ATHENS, GEORGIA

Mathematics, Ph.D Candidate

2014 – Present

Advisor: Daniel K. Nakano. My research is on representation theory, with particular emphasis on the cohomology and support variety theory of Lie superalgebras. Additionally participated in research in tropical geometry and algebraic geometry, as well as projects in data science and statistics. Served as president and secretary for graduate student organization, logistic organizer for student algebraic geometry seminar, and logistic organizer for graduate visitation day.

University of Massachusetts

AMHERST, MASSACHUSETTS

Mathematics, Bachelor of Science. Computer Science, Minor.

2010 – 2014

Advisor: Farshid Hajir. Exceptional amount of graduate coursework in real and complex analysis, algebra, geometry, and number theory. Multiple research projects in number theory and knot theory. Senior thesis elaborated on research paper by writing code to collect data concerning a family of polynomials which was in turn used to prove an original result.

Skills

- **Software:** *Operating Systems:* Windows, GNU/Linux, MacOS. *Scripting:* Bash, Perl. *General Programming:* Python, Java. *Mathematical Programming:*
- **Teaching:** *Instructor of record:* Precalculus. *Teaching Assistant:* Linear algebra, Introduction to proofs, Differential calculus, Integral calculus, Foundations of geometry.
- **Research:** Expertise in the mathematical discipline of support varieties. Able to read technical papers and ask meaningful questions. Mathematical software is a cornerstone of his research.

Experience

- Chapter of the American Mathematical Society, president.
- P.E.N.U.L.T.I.M.A.T.E. Seminar, organizer.