

ANIRUDDHA NADIGA

(+44) 7308 137952 ◊ asnadiga@gmail.com ◊ US citizen, willing to relocate

EDUCATION

University of Glasgow

Masters of Science in Pure Mathematics

Masters Thesis: *An Approachable Introduction to Infinity-Category Theory*. [PDF](#)

September 2019 - December 2020

GPA: 21/22

Carleton College

Bachelor of Arts in Mathematics

Relevant coursework: Software Development, Computer Org. and Arch., Applied Regression Analysis.

Senior Thesis: Original mathematical research *On the Knotting Probability of Random Equilateral Hexagons*. Presented findings in a paper and presentation. [PDF](#)

September 2015 - June 2019

GPA: 3.51/4

WORK EXPERIENCE

National High School Debate League of China, League Director

August 2020 - Present

Oversaw management of the National Debate League of China; over member 5,000 students.

- Conducted camps and tournaments on a tight schedule. Worked with with host institution on logistics, operations team on student recruitment, and academic team on curriculum development and teaching.
- Taught personalized lessons for member schools' debate programs. This was crucial for maintaining good relationships with member schools. Coordinated with all member schools to understand their needs and schedule lessons.
- Researched and published topic analyses. Acquired coaching level expertise in a few days for a new topic area every 2 months. Wrote the official in-depth topic analyses with a quick turnaround.
- Recorded and produced pre-recorded lectures for novice debaters. Due to Covid-19, rapidly transitioned entire curriculum into online format.
- Over saw the implementation of an in-house academic journal to publish extraordinary work done by high school students.

Los Alamos National Laboratory, Cryptography Research

Summer 2018/2019, Winter 2018

- Developed methods to extend range of quantum key distribution using new fully homomorphic encryption algorithms, with a focus on practical application.
- Created cryptographic protocols to ensure the cyber-security of the American energy grid. Worked with mathematicians, physicists, engineers, and software developers to clearly define security objectives.
- Presented new protocols to diverse audiences, including the professionals listed above.
- Currently completing two papers: write up of the results, and accessible introduction to lattice-based cryptography.

Carleton College Mathematics Department, Grader and Tutor

2018-2019

- Provided individual feedback on assignments and personalized tutoring for students.
- Collaborated with professors on developing coursework around difficult topics to enhance pedagogical approaches.

SKILLS

Coding/Software Development,

Proficient in: Java, SQL, R, SAS, Javascript, and HTML. Experienced in: LaTeX, Python, and Mathematica.

Examples can be found at <http://asnadiga.github.io>

Cultural Fluency,

Living in 4 countries in 3 continents has taught me how to work seamlessly with people of all backgrounds.

Languages,

· English - Native

· Kannada - Fluent

· Spanish - Conversational

EXTRACURRICULAR

- Model United Nations 2015-2017; Member of Governing Board of 2017.
- Speech and Debate; 2015-2019; Club President 2017-2019.
Won USA World Schools Debate Invitational 2015, Minnesota State Debate Tournaments 2015 and 2019.