Curriculum Vitae
Olivia Jane Strahan

Program: Mathematics Ph.D. Candidate, University of Michigan

Personal Information:

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Summary Statement:

I am a fourth year PhD candidate in mathematics at the University of Michigan, working in commutative algebra. I worked with Professor Mel Hochster for a little over 2 years. When he retired this winter, I began working with Professor Karen Smith instead. I am currently thinking about content and quasilength in Noetherian modules. After graduating, I intend to pursue a career that involves both research and teaching.

Education:

University of Michigan, Ann Arbor (2019-present)

Program:	Rackham Mathematics Doctoral
GPA:	3.864

McGill University, Montreal (2016-2019)

Degree:	B.Sc. First Class Honors Math & Computer Science, Distinction
Graduation:	Spring 2019
GPA:	3.94

Honors and Awards:

Undergraduate Student Research Award (2018)

Research grant provided by the National Sciences and Engineering Research Council, valuing $4,500 plus university contribution.

Irwin/Brennan Major Entrance Scholarship (2016-2019)

Awarded on the basis of academic achievement and outstanding leadership in school or community activities; renewable for up to four years of undergraduate study provided that the criteria (27 graded credits during the regular academic year, 3.70 GPA) are met.

Herndon High School mathematics medallion award (2016)

Awarded to a senior who has consistently demonstrated leadership and excellence in mathematics over all four years.

National Merit Scholarship winner (2016)

US Marine Corps Scholastic Excellence Award (2016)

Strengths:

- Excellent communicator in both verbal and written formats
- Patient, persistent
- Diligent, hard-working
- Creative
- Logical thinker with good reasoning skills
- Skilled at problem-solving and troubleshooting
- Friendly, enthusiastic

Experience:

<u>Paid Positions</u>

Graduate Student Instructor:

- Fall 2019: Math 105 (Data, Functions, and Graphs)
- Winter 2020: Math 115 (Calculus I)
- Fall 2020: Math 110 (Pre-Calculus, self-study)
- Winter 2021: Math 115 (Calculus I)
- Fall 2021: Math 105 (Data, Functions, and Graphs)
- Winter 2022: Math 115 (Calculus I)
- Fall 2022: Math 105 (Data, Functions, and Graphs)

Undergraduate Student Research Award (May-August 2018):

- Research grant from National Sciences and Engineering Research Council (NSERC)
- Studied transcendentalism and patterns in expansions of p-adic numbers.

Mathnasium, Herndon (July-August 2016):

- Responsibilities included teaching mathematics (elementary school to middle school level), supervising children, leading group activities, opening the facility and setting up before students arrived, and interacting with parents and potential customers.

Volunteer Positions

Math Honor Society (2013-2016)

Herndon High School FIRST Robotics Team 116 (2012-2016)
Senior member of software subteam
Chief Information Officer (2014-2016)

Other Skills:

- LaTex
- Multiple programming languages, including C, C++, Python, and Java
- Amazon AWS Solutions Architect Associate certification
- French