

LISA MARQUAND

646 244-0356 - lisa.marquand@stonybrook.edu

1 Sycamore Drive

Stony Brook, NY, 11790

EDUCATION

Stony Brook University

August 2017 - ongoing

Pursuing a PhD in Mathematics, Advisor: Prof. Radu Laza

Research Interests: Hyperkähler Manifolds and automorphisms, special classes of varieties (K-trivial, cubic hypersurfaces).

The University of Edinburgh

Sep 2013 - May 2017

Degree of Master of Mathematics with First Class Honours in Mathematics.

RESEARCH PAPERS

Cylinders in Rational Surfaces

2018

Marquand, L. & Won, J. European Journal of Mathematics (2018) 4: 1161.

<https://doi.org/10.1007/s40879-018-0229-x>

SEMINARS AND CONFERENCES

Trieste Algebraic Geometry Summer School (TAGSS) 2021 - Hyperkähler and Prym varieties: classical and new results

07/21/2021

Invited talk (virtual), titled *Cubic Fourfolds with an anti-symplectic involution*

Attended the conference.

Géométrie Algébrique en Liberté (GAeL)

2019 - 2021

Organiser for the GAeL workshop for Young Algebraic Geometers.

<https://sites.google.com/view/gaelxxviii>

American Graduate Student Algebraic Geometry Seminar

09/11/2020

Invited talk (virtual), titled *Hyperplane Sections and Moduli*

TEACHING EXPERIENCE

Chairman's Award for Excellence in Teaching

2019

by a First or Second Year Graduate Student.

Course Instructor: MAT118 Mathematical Thinking

Summer 2020

Taught virtual synchronous due to COVID-19. Had to create suitable homework and exam replacements due to the online nature of the course. Created a "final project" instead of exam, so the students could exhibit an application of mathematical thinking to the real world.

Course Instructor: MAT123 Precalculus

Summer 2019

Course Instructor: MAT200 Logic, Language and Proof

Summer 2018

Each position was instructing a six week course. This included lecturing the material, creating and grading homework assignments as well as the midterm and final exams. In addition, creating extra problem sheets with interesting problems for students, as well as being available by appointment to discuss any of the above.

Graduate Teaching Assistant at Stony Brook University

Fall 2017 - present

MAT312 Applied Algebra, MAT123 Precalculus, MAT131 Calculus 1, MAT125/126 Calculus A/B, MAT203 Calculus III with applications, Grading MAT 534/535 Algebra I/II (Graduate class).

OUTREACH AND SERVICE

Teacher for The ISTEM Summer Mathematics Program *Summer 2018, 2019, 2021*
Gave lectures in a Summer Camp for Highschool students on Japanese Temple Maths and Wallpaper patterns as part of a program to get more students interested in Mathematics.

Teacher for The Della Pietra Applied Mathematics Program *2019 - present*
Taught classes in a Saturday Mathematics program for Highschool students.

Co-organizer for the Student Algebraic Geometry Seminar *2019 - 2021*
Moduli of Curves (Spring 2020), Deformations of Algebraic Schemes (Fall 2020), Positivity (Spring 2021).

GWISE Mentor Program *2019 - 2020*
A mentor for the GWISE (Graduate Women in Science and Engineering) program in order to encourage more women to pursue graduate studies in Mathematics.

Directed Reading Program (DRP) Stonybrook *Fall 2019*
Mentor for the DRP program , leading an undergraduate student in a reading project following Undergraduate Algebraic Geometry, Miles Reid.

Graduate Representative for Mathematics department *Fall 2020 - present*
Representing the interests of the graduate students in departmental committee meeting. Responsibilities include attending these meetings, advocating for the needs of the graduate, providing a space for students to air concerns in an anonymous fashion.