

# JOHN SHERIDAN

Department of Mathematics, Stony Brook University, Stony Brook, NY 11794

john.sheridan@stonybrook.edu

## EDUCATION

---

**Harvard College, Cambridge, MA**

A.B. Cum Laude in Mathematics.

*December 2013*

**Stony Brook University, Stony Brook, NY**

Ph.D. in Mathematics. **Advisor:** Prof. Robert Lazarsfeld.

*Expected May 2020*

## RESEARCH INTERESTS

---

Brill–Noether theory of curves and higher dimensional varieties.

Szygies of varieties in projective space.

Birational geometry.

## PUBLICATION

---

**Divisor Varieties of Symmetric Products**

Preprint at arXiv:1906.05465 (2019). Under revision for International Mathematical Research Notices (IMRN).

## INVITED/UPCOMING TALKS

---

Stony Brook University, Stony Brook, NY. Algebraic Geometry Seminar.

January 2020

Notre Dame University, Notre Dame, IN. Algebraic Geometry Seminar.

December 2019

Princeton University, Princeton, NJ. Algebraic Geometry Seminar.

December 2019

Humboldt University, Berlin. Brill–Noether Theory Workshop.

November 2019

Rutgers University, New Brunswick, NJ. Algebra Seminar.

April 2019

UMass Amherst, Amherst, MA. AGNES Conference - Presented Poster.

March 2019

## PROFESSIONAL ACTIVITY

---

Mentored a first-year graduate student in algebraic geometry, Stony Brook.

Spring 2018

Co-organized Algebraic Stacks Seminar, Stony Brook.

Spring 2017

Founded, co-organized Algebraic Geometry Student Seminar, Stony Brook.

Fall 2016–Spring 2017

Co-organized RTG Geometry Seminar, Stony Brook.

Fall 2016–Spring 2017

Co-organized Graduate Student Math Seminar, Stony Brook.

Fall 2015—Spring 2016

## SEMINARS, WORKSHOPS AND CONFERENCES (ATTENDED/UPCOMING)

---

Brill–Noether theory: geometric, tropical and singularity theory aspects, Humboldt University, Berlin, November 2019.

Algebraic Geometry North East Series (AGNES), various locations in northeastern US, bianually 2014–2019.

Summer school on Mixed Hodge Modules in Birational Geometry, Johannes Gutenberg University Mainz, Germany, July 2018.

Algebraic Geometry and its Broader Implications, a celebration of Robin Hartshorne’s 80th and the book’s 40th birthday, University of Illinois at Chicago, March 2018.

Higher Dimensional Algebraic Geometry summer school and conference at University of Utah, July 2016.

Local and Global Methods in Algebraic Geometry, a conference in Honour of Lawrence Ein’s 60th birthday. University of Illinois at Chicago, May 2016.

Workshop on unramified cohomology, derived categories, and rationality, University of Utah, Feb. 2016.

## EMPLOYMENT

---

**Course Organizer and Lecturer:** *Multivariable Calculus, Foundations of Mathematics for Teachers, Advanced Linear Algebra*, Summer sessions 2016–2019, Stony Brook University.

**Teaching Assistant:** *Calculus (all levels), Linear Algebra, Abstract Algebra, Mathematical Thinking, Number Theory, Algebraic Geometry*, 2014–2019, Stony Brook University.

**Lecturer:** *Linear Algebra*, Spring 2014, Harvard University.

**Class Leader:** *Math Circle*, Spring 2014, Northeastern University.

**Programmer and Consultant:** *Wrote financial accounting software in Java*, April–August 2014, Galatea Associates, Somerville, MA.

## AWARDS AND FELLOWSHIPS

---

**Research Assistantship**, 2014–2016 and 2019, Stony Brook University.

**PRISE Fellowship**, Summer 2013, Harvard University.