

- Personal** 1 Oxford Street, Room 431d  
Cambridge, MA 02138, USA  
Canadian Citizen, born in Seoul, South Korea, on January 3, 1992.  
Phone: (617) 631-2811
- Education** · **Harvard University**, Ph.D., August 2014 – May 2019,  
· **University of Toronto**, H.B.Sc., September 2010 – June 2014.
- Publications** 1. (with Ethan Cotterill and Ignacio Darago) *Arithmetic inflection points of arithmetic linear series on hyperelliptic curves (temporary title)*, in preparation  
2. (with Jun-Yong Park) *Arithmetic of the moduli of (un)stable elliptic surfaces (temporary title)*, in preparation  
3. (with Anand Deopurkar) *Stable log quadrics (temporary title)*, in preparation  
4. (with Anand Deopurkar) *Stable log surfaces, admissible covers, and canonical curves of genus 4*, arXiv:1807.08413 (2018)  
5. (with Jun-Yong Park) *Arithmetic of the moduli of semistable elliptic surfaces*, arXiv:1607.03187 (To Appear at Math. Ann.)
- Awards** · NSERC Postgraduate Scholarships-Doctoral Program, May 2016 - April 2019  
· The Norman Stuart Robertson Scholarship in Mathematics, 2013  
· NSERC Undergraduate Student Research Awards, May 2012 - August 2012  
· The Coxeter Scholarship in Mathematics, 2012  
· Queen Elizabeth II Aiming for Top Scholarship, 2010 – 2014
- Research** Algebraic geometry, moduli spaces/stacks, KSBA compactifications, Hassett-Keel program, minimal model program,  $\mathbb{A}^1$ -enumerative geometry, rational points on varieties, deformation theory, degenerations, and Grothendieck ring of varieties/stacks.
- Recent Talks** **Spring 2018**  
· **Feb** *Algebraic Geometry Seminar*, Brown University, Providence, RI.  
A birational model of moduli of genus 4 curves using stable log surfaces.  
**Spring 2017**  
· **May** *AMS graduate student conference in algebra and number theory*, Brown University, Providence, RI.  
Compactifying moduli of genus four curves using moduli of log surfaces.  
· **Jan** *Algebraic Geometry Seminar*, University of Georgia, Athens, GA.  
KSBA compactifications of smooth quadrics and trigonal genus four curves.
- Conferences** — **March 2019**, *Arizona Winter School 2019: Topology and Arithmetic*, University of Arizona, Tucson, AZ

- **December 2018**, *FRG Workshop on Moduli Spaces of sheaves and Bridgeland Stability*, UIC, Chicago, IL
- **November 2018**, *D-Modules and Hodge Theory*, UIC, Chicago, IL
- **October 2018**, *Moduli Spaces: Birational Geometry and Wall Crossings*, BIRS, Banff, AB, Canada
- **October 2018**, *Western Algebraic Geometry Symposium*, University of Oregon, Eugene, OR
- **September 2018**, *Algebraic Geometry Northeastern Series*, Brown University, Providence, RI
- **July 2018**, *Moduli Spaces in Algebraic Geometry and Applications*, satellite conference of ICM, Campinas, Brazil
- **June ~July 2018**, *Summer Graduate School on Derived Categories*, MSRI, Berkeley, CA
- **January 2018**, *Korean-Italian Meeting on Algebraic Geometry*, KIAS, Seoul, South Korea
- **October 2017**, *Algebraic Geometry Northeastern Series*, Northeastern University, Boston, MA
- **August 2017**, *Conference on Birational Geometry*, Simons Foundation, New York, NY
- **June 2017**, *Géométrie Algébrique en Liberté XXV*, University of Bath, Bath, UK
- **June 2017**, *Linear Systems on Irregular Varieties*, Como, Italy
- **May 2017**, *Geometry of Moduli Spaces*, UCSD, La Jolla, CA
- **May 2017**, *Mini-workshop in Birational Geometry and Hodge Theory*, Northwestern University, Evanston, IL
- **December 2016**, *Workshop on Combinatorial Moduli Spaces and Intersection Theory*, Fields Institute, Toronto, ON, Canada
- **August 2016**, *Introductory Workshop on Combinatorial Algebraic Geometry*, Fields Institute, Toronto, ON, Canada
- **July 2016**, *Higher Dimensional Algebraic Geometry*, University of Utah, Salt Lake City, UT
- **July 2015**, *AMS Summer Institute on Algebraic Geometry*, University of Utah, Salt Lake City, UT
- **April 2015**, *New Techniques in Birational Geometry*, Stony Brook University, Stony Brook, NY

**Service**

- Organized student algebraic geometry seminars at Harvard, Spring 2015 ~ Fall 2017
- Co-organized undergraduate math seminars at University of Toronto, Fall 2012 ~ Spring 2013

**Teaching****Harvard University**

- *Coaching Fellow for Math 1b (Calculus, Series, and Differential Equations)*, Spring 2019. {Responsible for taking care of students who need extra help to succeed.}
- *Teaching Fellow for Math 1b (Calculus, Series, and Differential Equations)*, Fall 2017. {Responsible for planning and giving lectures to 20 students, holding office hours, and grading exams.}
- *Teaching Fellow for Math 21b (Linear Algebra and Differential Equations)*, Spring 2017
- *Graduate Course Assistant for Math 258Y (degenerations in algebraic geometry)*, Fall 2016. {Responsible for planning and running sessions that complement the lectures, grading homeworks.}
- *Teaching Fellow for Math 1b (Calculus, Series, and Differential Equations)*, Fall 2015

**University of Toronto**

- *Teaching Assistant for MAT136H1 (Calculus I(B))*, Spring 2014. {Responsible for running tutorials and grading a midterm.}
- *Teaching Assistant for MAT135H1 (Calculus I(A))*, Fall 2013
- *Teaching Assistant for MAT136H1 (Calculus I(B))*, Spring 2013
- *Teaching Assistant for MAT135H1 (Calculus I(A))*, Fall 2012

**References****Joseph Harris**

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**Barry Mazur**

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**Cliff Taubes (Teaching)**

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