

## Jun–Yong Park

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### CONTACT INFORMATION

School of Mathematics and Statistics  
The University of Melbourne  
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### RESEARCH INTERESTS

Arithmetic theory of algebraic varieties, moduli spaces with connections to number theory.  
Geometry of rational points on stacks and counting families of varieties over function fields.

### ACADEMIC POSITIONS

**The University of Melbourne, Victoria, Australia**

Research Fellow, 2022 Fall - Present

**Max Planck Institute for Mathematics, Bonn, Germany**

Postdoctoral Fellow, 2021 Fall - 2022 Spring

**IBS Center for Geometry and Physics, Pohang, South Korea**

Senior Research Fellow / Military Service, 2018 Fall - 2021 Spring

### EDUCATION

**University of Minnesota Twin Cities**

Ph.D. in Mathematics, 2012 Fall - 2018 Spring

Advisor: Craig Westerland

M.Sc. in Mathematics, 2016 Spring

B.Sc. in Mathematics, 2008 Fall - 2011 Fall

**Pennsylvania State University**

Mathematics Advanced Study Semester, 2009 Fall

**Independent University of Moscow**

Mathematics in Moscow, 2010 Spring

**Brown University**

Visiting student hosted by Thomas Goodwillie, 2018 Spring

### SUBMITTED ARTICLES

1. *Height moduli on cyclotomic stacks and counting elliptic curves over function fields*  
arXiv:2210.04450. (with Dori Bejleri and Matthew Satriano)
2. *Étale cohomological stability of the moduli space of stable elliptic surfaces*  
arXiv:2207.02496. (with Oishee Banerjee and Johannes Schmitt)
3. *Arithmetic geometry of the moduli stack of Weierstrass fibrations over  $\mathbb{P}^1$*   
arXiv:2107.12231. (with Johannes Schmitt)

### PUBLISHED ARTICLES

4. *Enumerating odd-degree hyperelliptic curves and abelian surfaces over  $\mathbb{P}^1$*   
Mathematische Zeitschrift, **304**, No. 1 : #5 (2023) (with Changho Han)
5. *Motive of the moduli stack of rational curves on a weighted projective stack*  
Research in the Mathematical Sciences, **8**, No. 1 : #1 (2021) (with Hunter Spink)  
Special issue of PIMS 2019 Workshop on Arithmetic Topology
6. *Arithmetic of the moduli of semistable elliptic surfaces*  
Mathematische Annalen, **375**, No. 3-4 : 1745-1760 (2019) (with Changho Han)

7. *Unique fiber sum decomposability of genus 2 Lefschetz fibrations*  
Topology and its Applications, **222** : 29-52 (2017)
8. *Lantern substitution and new symplectic 4-manifolds with  $b_2^+ = 3$*   
Mathematical Research Letters, **21**, No. 1 : 1-17 (2014) (with Anar Akhmedov)

AWARDS	<p>Andrew Sisson Support Package Award, The University of Melbourne, 2022</p> <p>Postdoctoral Researcher Fellowship, Max Planck Society, 2021 - 2022</p> <p>Senior Researcher Fellowship, Institute for Basic Science, 2018 - 2021</p>
INSTRUCTOR	<p>Topics in AG: Elliptic Surfaces - Classical to Moduli (University of Melbourne Spring 2023)</p> <p>Postdoctoral Lecture Series: Arithmetic of the moduli of fibered algebraic surfaces with heuristics for counting curves over global fields (IBS Center for Geometry and Physics Fall 2018)</p> <p>Multivariable Calculus (University of Minnesota Summer 2014)</p>
CO-ORGANIZATION SERVICES	<p>Pure Mathematics Seminar, The University of Melbourne, Spring 2023 - Present</p> <p>Pohang Mathematics Workshop, Maison Glad Jeju Island, South Korea, December 5–8, 2019</p>
CONFERENCE TALKS	<p>Fourth W. Killing and K. Weierstrass Colloquium, University of Gdańsk, Poland, July 2022</p> <p>Invariants in Algebraic Geometry, Institut de Mathématiques de Bourgogne, Dijon, May 2022</p> <p>KMS Annual Meeting – Trends in Arithmetic Geometry, Online, October 2021</p> <p>KMS Spring Meeting – Number Theory and Arithmetic, Online, July 2020</p> <p>Inaugural France-Korea Conference in Algebraic Geometry, Number Theory and Partial Differential Equations, Institut de Mathématiques de Bordeaux, November 2019</p>
SEMINAR TALKS	<p>Harvard / MIT Algebraic Geometry Seminar, Harvard University, April 2023</p> <p>Geometry &amp; Topology Seminar, University of Waterloo, April 2023</p> <p>Topology Seminar, University of Southern California, April 2023</p> <p>Number Theory and Algebraic Geometry Seminar, Simon Fraser University, January 2023</p> <p>Algebra and Topology Seminar, Australian National University, November 2022</p> <p>Arithmetic Algebraic Geometry Seminar, The University of Melbourne, November 2022</p> <p>Number Theory Seminar, Seoul National University, September 2022</p> <p>Algebra, Geometry &amp; Physics, Humboldt-Universität zu Berlin, April 2022</p> <p>Number Theory Lunch Seminar, Max Planck Institute for Mathematics, February 2022</p> <p>Webinar in Number Theory, French-Korean IRL in Mathematics, February 2022</p> <p>Topology Seminar, Max Planck Institute for Mathematics, November 2021</p> <p>Number Theory Lunch Seminar, Max Planck Institute for Mathematics, September 2021</p> <p>Algebraic Geometry Seminar, Korea Institute for Advanced Study, July 2021</p> <p>Algebraic Geometry Seminar, IBS Center for Geometry and Physics, August 2020</p> <p>Director's Seminar, IBS Center for Geometry and Physics, May 2020</p> <p>Derived Seminar, IBS Center for Geometry and Physics, January 2019</p> <p>Harvard / MIT Algebraic Geometry Seminar, MIT, April 2018</p> <p>Algebra and Algebraic Geometry Seminars, Brown University, April 2017</p>