

## Jun–Yong Park

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CONTACT INFORMATION	Max-Planck-Institut für Mathematik Vivatsgasse 7 53111 Bonn, Deutschland  <i>Email:</i> junepark@mpim-bonn.mpg.de <i>Website:</i> <a href="http://www.fibration.net">www.fibration.net</a>
RESEARCH INTERESTS	Arithmetic & Algebraic geometry: motive/point count of moduli stacks of fibrations, fibred algebraic surfaces and their moduli, enumerating curves and abelian varieties over global function fields.
ACADEMIC POSITIONS	<b>Max Planck Institute for Mathematics, Bonn, Germany</b> Postdoctoral Fellow, 2021 Fall - Present  <b>IBS Center for Geometry and Physics, POSTECH, Pohang, South Korea</b> Research Fellow / Military Service, 2018 Fall - 2021 Spring
EDUCATION	<b>University of Minnesota Twin Cities</b> 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  <b>Pennsylvania State University</b> Mathematics Advanced Study Semester, 2009 Fall  <b>Independent University of Moscow</b> Mathematics in Moscow, 2010 Spring  <b>Brown University</b> Visiting student hosted by Thomas Goodwillie, 2018 Spring
ARTICLES IN PREPARATION	<i>Arithmetic moduli of elliptic surfaces</i>  <i>Enumerating elliptic K3 fibered Calabi-Yau 3-folds over <math>\mathbb{P}^1</math></i>
SUBMITTED ARTICLES	<i>Arithmetic geometry of the moduli stack of Weierstrass fibrations over <math>\mathbb{P}^1</math></i> Submitted, arXiv:2107.12231. (with Johannes Schmitt)  <i>Enumerating hyperelliptic curves and abelian surfaces over <math>\mathbb{P}^1</math> with lower order terms</i> Submitted, arXiv:2002.00563. (with Changho Han)  <i>Arithmetic topology of the moduli stacks of stable elliptic fibrations</i> Submitted, arXiv:1812.11694.
PUBLISHED ARTICLES	<i>Motive of the moduli stack of rational curves on a weighted projective stack</i> Research in the Mathematical Sciences, <b>8</b> , No. 1 : #1 (2021) (with Hunter Spink) Special issue of PIMS 2019 Workshop on Arithmetic Topology  <i>Arithmetic of the moduli of semistable elliptic surfaces</i> Mathematische Annalen, <b>375</b> , No. 3-4 : 1745-1760 (2019) (with Changho Han),

*Unique fiber sum decomposability of genus 2 Lefschetz fibrations*  
Topology and its Applications, **222** : 29-52 (2017)

*Lantern substitution and new symplectic 4-manifolds with  $b_2^+ = 3$*   
Mathematical Research Letters, **21**, No. 1 : 1-17 (2014) (with Anar Akhmedov)

AWARDS	Postdoctoral Research Fellowship, Institute for Basic Science, 2018 - 2021
INSTRUCTOR	Multivariable Calculus (University of Minnesota Summer 2014)
TEACHING ASSISTANT	Calculus I (University of Minnesota Fall 2012) Calculus II (University of Minnesota Spring 2013) Honors Vector Calculus (University of Minnesota Fall 2013) Vector Analysis (University of Minnesota Spring 2014) Linear Algebra and Differential Equations (University of Minnesota 2014 - 2015) Multivariable Calculus (University of Minnesota 2015 - 2017) Riemannian Geometry taught by Robert Gulliver (University of Minnesota Fall 2012) Algebraic Topology taught by Alexander Voronov (University of Minnesota Fall 2016)
WORKSHOP CO-ORGANIZATION	Pohang Mathematics Workshop, Maison Glad Jeju Island, South Korea, December 5–8, 2019
CONFERENCE, WORKSHOP TALKS	KMS Spring Meeting in Number Theory and Arithmetic, Online, July 2020 Inaugural France-Korea Conference in Algebraic Geometry, Number Theory and Partial Differential Equations, Institut de Mathématiques de Bordeaux, November 2019 Workshop in Algebraic Geometry at Gunsan, Ritz–Plaza Hotel, South Korea, October 2018 Chicago Summer School in Topology and Geometry, University of Chicago, June 2018 AMS Graduate Conference in Geometry & Topology, Brown University, April 2018 Midwest Algebraic Geometry Graduate Conference, University of Illinois Chicago, April 2017 Conference in Algebra, Geometry, and Topology, Temple University, May 2016
SEMINAR TALKS	Algebraic Geometry Seminar, Korea Institute for Advanced Study, July 2021 Algebraic Geometry Seminar, IBS Center for Geometry and Physics, August 2020 Director’s Seminar, IBS Center for Geometry and Physics, May 2020 Derived Seminar, IBS Center for Geometry and Physics, January 2019 Harvard / MIT Algebraic Geometry Seminar, MIT, April 2018 Algebra and Algebraic Geometry Seminars, Brown University, April 2017 CGP Seminar, IBS Center for Geometry and Physics, January 2017 Topology Seminar, University of Massachusetts Amherst, October 2015
LECTURE SERIES	Postdoctoral Lecture Series, “Arithmetic of the moduli of fibered algebraic surfaces with heuristics for counting curves over global fields” 3 lectures (IBS - CGP October 2018)
POSTER PRESENTATIONS	ICERM Birational Geometry and Arithmetic, Brown University, May 2018 AGNES Algebraic Geometry Northeastern Series, Northeastern University, October 2017 5 <sup>th</sup> Heidelberg Laureate Forum, Heidelberg University, September 2017