Hyuk Jun Kweon

CONTACT INFORMATION	606 Boyd Research and Education Center Athens, GA 30602, USA	+1-857-999-1251 kweon@uga.edu

EMPLOYMENT	**University of Georgia**, Athens, GA	
	Limited Term Assistant Professor	Aug. 2022 - Current
	Massachusetts Institute of Technology, Cambridge, MA	
	Research Specialist Limited (One-year bridge postdoc)	Aug. 2021 - Jul. 2022
	National Institute for Mathematical Sciences, Daejeon, South Korea	
	Technical Research Personnel	Mar. 2015 - Apr. 2018

- Alternative military service
- Managing a SageMath notebook server
- Providing mathematical outreach programs

EDUCATION	**Massachusetts Institute of Technology**, Cambridge, MA	
	Ph.D. in Mathematics	Sep. 2012 - Aug. 2014 Sep. 2018 - Jun. 2021
	Advisor: Bjorn Poonen (Leave of absence is due to compulsory military service)	
	Pohang University of Science and Technology, Pohang, South Korea	
	B.S. in Mathematics B.S. in Computer Science and Engineering	Mar. 2008 - Feb. 2012

- Double Major
- Summa Cum Laude

PUBLICATION	Maximum Overlap Area of Several Convex Polygons Under Translation (with Honglin Zhu), *preprint*
	Maximum overlap area of a convex polyhedron and a convex polygon under translation (with Honglin Zhu), *39th International Symposium on Computational Geometry (SoCG 2023)*
	Bounds on the Torsion Subgroup Schemes of Néron-Severi Group Schemes, *Advances in Mathematics 409 (2022): 108687.*
	Bounds on the Torsion Subgroups of Néron-Severi Groups, *Trans. Amer. Math. Soc. 374 (2021), pp. 351-365.*
	Overlap of convex polytopes under rigid motion (with Hee-Kap Ahn; Siu-Wing Cheng and Juyoung Yon), *Computational Geometry* 47, no. 1 (2014): 15-24

TEACHING	**Calculus II for Science and Engineering (MATH2260)** Lecturer, University of Georgia	Jan. 2024 - Apr. 2024

TEACHING	**Calculus I for Science and Engineering (MATH2250)** Lecturer, University of Georgia	Aug. 2022 - Dec. 2023
	Precalculus (MATH1113) Lecturer, University of Georgia	Jan. 2022 - May. 2023
	Multivariable Calculus (18.02) Recitation Leader, Massachusetts Institute of Technology	Feb. 2022 - May. 2022
	Calculus (18.01A/18.02A) Recitation Leader, Massachusetts Institute of Technology	Sep. 2021 - Dec. 2021
	Calculus of Several Variables (18.022) Recitation Leader, Massachusetts Institute of Technology	Sep. 2019 - Dec. 2019
	Differential Equations (MATH200) Recitation Leader, Pohang University of Science and Technology	Mar. 2012 - Jun. 2012
	Complex Variables (MATH310) Recitation Leader, Pohang University of Science and Technology	Dec. 2021

RESEARCH TALKS	PAlmetto Number Theory Series XXXVI, Clemson University	Oct. 2023
	Number Theory Seminar, University of Georgia	Apr. 2023
	Southern Regional Number Theory Conference, Louisiana State University	Mar. 2023
	Number Theory Seminar, University of Georgia	Aug. 2022
	Korea Institute for Advanced Study	Oct. 2022
	POSTECH-PMI Number Theory Seminar, POSTECH	Apr. 2022
	Johns Hopkins Junior Number Theory Days, Johns Hopkins University	Dec. 2021
	2021 Korean Mathematical Society Annual Meeting	Oct. 2021
	Ohio State Number Theory Seminar, Ohio State University	Mar. 2021
	AMS Special Session, Spring Eastern Sectional Meeting, Brown University	Mar. 2021
	Binghamton Arithmetic Seminar, Binghamton University	Mar. 2021
	~~AMS Special Session, Spring Eastern Sectional Meeting, Tufts University~~ (Canceled due to COVID-19)	Mar. 2020
	Korea Institute for Advanced Study	Jan. 2020

EXPOSITORY TALKS	**Proof of the amplification principle 2** STAGE, Massachusetts Institute of Technology	May. 2022
	Alterations STAGE, Massachusetts Institute of Technology	Nov. 2020
	Formal Groups as Functors STAGE, Massachusetts Institute of Technology	Sep. 2019
	Division by 2 on Hyperelliptic Curves Preprint Seminar, Massachusetts Institute of Technology	Dec. 2018
	Review of Étale Cohomology STAGE, Massachusetts Institute of Technology	Sep. 2018
	On the Fary-Milnor theorem, following the existing literatures SCV Seminar, Pohang University of Science and Technology	Nov. 2010

ACADEMIC SERVICE	Co-organizer of STAGE (Seminar on Topics in Arithmetic, Geometry, Etc.), MIT	Spring 2022
	Co-organizer of STAGE (Seminar on Topics in Arithmetic, Geometry, Etc.), MIT	Fall 2021
	Co-organizer of STAGE (Seminar on Topics in Arithmetic, Geometry, Etc.), MIT	Fall 2020
AWARDS AND HONORS	AMS-Simons Travel Grants	July. 2023 - Jun. 2025
	Scholarship for Doctoral Study, Samsung Foundation	Sep. 2012 - Jun. 2021
	Scholarship, STX Foundation	Mar. 2011 - Feb. 2012
	Governmental Scholarship, Korea Student Aid Foundation	Mar. 2008 - Feb. 2011
	6th Place, ACM-ICPC Korea Regional Programming Contest	Nov. 2010
	4th Place, ACM-ICPC Korea Regional Programming Contest	Nov. 2009
	5th Place, ACM-ICPC Korea Regional Programming Contest	Nov. 2008