Hyuk Jun Kweon

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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	Jan. 2023 - 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. 2018 - Jun. 2021 Sep. 2012 - Aug. 2014			
	Advisor: Bjorn Poonen (Leave of absence is due to compulsory military service)	1			
	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 MajorSumma Cum Laude				
Publication	Maximum Overlap Area of Several Convex Polygons Under Translation (with Honglin Zhu), The 36th Canadian Conference on Computational Geometry (CCCG 2024)				
	Maximum overlap area of a convex polyhedron and a convex polygon under translation (with Honglin Zhu), The 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				
Awards and	AMS-Simons Travel Grants	July. 2023 - Jun. 2025			
Honors	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
TEACHING	Complex Variables (MATH4150) Lecturer, University of Georgia	Aug. 2024 -	- Dec.	2024
	Precalculus (MATH1113) Lecturer, University of Georgia	Aug. 2024 -	· Dec.	2024
	Calculus II for Science and Engineering (MATH2260) Lecturer, University of Georgia	Jan. 2024 -	Apr.	2024
	Calculus I for Science and Engineering (MATH2250) Lecturer, University of Georgia	Aug. 2022 -	· Dec.	2023
	Precalculus (MATH1113) Lecturer, University of Georgia	Jan. 2022 -	May.	2022
	Multivariable Calculus (18.02) Recitation Leader, Massachusetts Institute of Technology	Feb. 2021 -	May.	2021
	Calculus (18.01A/18.02A) Recitation Leader, Massachusetts Institute of Technology	Sep. 2020 -	· Dec.	2020
	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 Technolog	Mar. 2012 -	- Jun.	2012
	Complex Variables (MATH310) Recitation Leader, Pohang University of Science and Technolog	Aug. 2011 -	· Dec.	2011
RESEARCH TALKS	Canadian Conference on Computational Geometry, Brock Univ	ersity	Jul.	2024
	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
	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