See-Hak Seong

Department of Mathematics, Statistics, and Computer Science University of Illinois at Chicago 851 S. Morgan St. Chicago IL, 60607-7045 sseong3@uic.edu, exelevel@gmail.com, Phone: (312) 937-0049 http://www.math.uic.edu/~seehak/

EDUCATION

University of Illinois at Chicago, Illinois, USA

August 2016 - Present

Ph.D. Candidate, Pure Mathematics

June 2017 - Present

Advisor : Izzet Coskun

Seoul National University, Republic of Korea

March 2009 - December 2010

B.S. in Mathematics

& March 2013 - February 2015

Seoul Science High School, Republic of Korea March 2007 - February 2009

INTERESTS

I am interested in Algebraic Geometry, especially with Hilbert schemes and intersection theories, and some combinatorial commutative algebra.

AWARDS AND SCHOLARSHIP

Merit Awards, University of Illinois at Chicago Septe

September 2016

National Scholarship for Science and Engineering

Spring 2013 - Fall 2014

Eminence Scholarship, Seoul National University

Spring 2010 - Fall 2010

Superior Academic Performance, Seoul National University

Excellence Award, 22nd Final Korean Mathematical Olympiad

Fall 2009 2009

Silver Prize, 22nd Korean Mathematical Olympiad (KMO)

2008

Silver Prize, 21st Korean Mathematical Olympiad (KMO)

2007

PUBLICATIONS

- S. Seong, Connected components in the Hilbert scheme of hypersurfaces in Grassmannian, arXiv:1907.06569, Jul 2019. (accepted for publication in Communications in Algebra)
- 2. S. Seong, Nef cone of the Hilbert scheme of hypersurfaces in Grassmannian, in preparation

TEACHING EXPERIENCE

Teaching Assistant

August 2016 - Present

University of Illinois at Chicago, Illinois, USA

- Fall 2019 : Teaching and Presentations of Mathematics (Math 589), TA Coordinator
- Spring 2019: Applied Linear Algebra (Math 310), TA tutor
- Fall 2018 : Calculus I (Math 180)
- Summer 2018 : Calculus II (Math 181)
- Spring 2018 : Calculus III (Math 210)

	 Fall 2017: Calculus I (Math 180) Spring 2017: Calculus II (Math 181) Fall 2016: Calculus III (Math 210) 	
	Teaching Assistant Seoul National University, Republic of Korea • Spring 2016 : Calculus I (033.001) • Fall 2015 : Calculus II (033.002)	September 2015 - June 2016
SEMINAR TALKS	Graduate Algebraic Geometry Seminar, UIC • Hilbert scheme of curves in ℙ³	Nov 2019
	Graduate Algebraic Geometry Seminar, UIC • Introduction to Hilbert Scheme of Points on Affine	Feb 2019 space
	Graduate Algebraic Geometry Seminar, UIC • Rational curves on general type hypersurfaces	Oct 2018
	Graduate Algebraic Geometry Seminar, UIC • Chern Classes and Splitting Lemma	Mar 2018
	Graduate Algebraic Geometry Seminar, UIC • Introduction to Riemann-Roch Theorem	Oct 2017
	Geometry and Topology graduate day II at UIC, • Introduction to Resolution of Singularities : Blow to	
	Geometry and Topology graduate day at UIC, UI • Non-Parallelizable Real Projective Space and Stifel	
CONFERENCES	Attendee, University of Illinois at Chicago, IL, USA • Midwest Algebraic Geometry Graduate Conference	March 2019
	Attendee, University of Illinois at Chicago, IL, USA • Midwest Algebraic Geometry Graduate Conference	May 2018
	 Attendee, University of Illinois at Chicago, IL, USA Algebraic Geometry and its Broader Implications 	March 2018
	Attendee, Allerton Center, IL, USAGeometry and Physics of Augmented Bundles	May 2017