

Seung uk Jang

Contact Details

Address Department of Mathematics, The University of Chicago; 5734 S University Ave,
Chicago, IL, 60637, USA

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Education

2014–present **Ph.D student of Math**, *University of Chicago*, Chicago, IL, USA.

Mathematics

Advisor: Alex Eskin

2021 **Master of Science**, *University of Chicago*, Chicago, IL, USA.

Mathematics

2013–2014 **Master of Science**, *KAIST*, Daejeon, South Korea.

Mathematical Sciences

2009–2013 **Bachelor of Science**, *KAIST*, Daejeon, South Korea.

Mathematical Sciences, with minor on Computer Science, and Honor program
Summa cum Laude, 4.25/4.3 in GPA

Valedictorian for graduate ceremony

2006–2009 **High School**, *Korea Science Academy of KAIST*, Busan, South Korea.

Publications

2021 **Kummer Rigidity for Hyperkähler Automorphisms**, *Seung uk Jang*.

available as a preprint in [arXiv:2109.06722](https://arxiv.org/abs/2109.06722)

2017 **Quantum unique ergodicity and the number of nodal domains of eigenfunc-**
tions, *Seung uk Jang, Junehyuk Jung*.

Electronically published in J. Amer. Math. Soc., 2017. 06. 02.,

<http://dx.doi.org/10.1090/jams/883>

Academic Talks

2019 **A Mechanical model for Lorenz System**, *KIAS*.

introductory material for the Lorenz system and its analysis

2015 **Quantum ergodicity and the number of nodal domains of eigenfunctions**,
SNU.

work done with Junehyuk Jung

2009 **Lattice Edge Number of Figure Eight Knot**, *2009 KMS-AMS Joint Meeting*,
poster session.

work done with Hun Kim, Gyo Taek Jin, Choon Bae Jeon, Sang Hyuk Moon, Sang Hyun
Park, Yoo Shin Song

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- 2007 **Generalizing 2D Geometric Properties to 3D With the Aid of DGS, ATCM**
2007, contributed talks.
work done with Dohyun KIM, Hyobin LEE, Youngdae KIM

Experience

Teaching

- Fall 2019 – **Lecturer**, *University of Chicago*, Chicago.
Spring 2021 Graduate Student Lecturer for various courses, including Freshman Calculus Course (Math 151-153) and *Mathematical Methods for Social Sciences* (Math 195)

Other Employments

- Fall 2016 – **Researcher**, *NIMS*, Daejeon.
Summer 2019 (Division) Center for Applications of Mathematical Principles
Employment as an Alternative military service for Korea
Working on public understanding of (industrial) mathematics in Korea, including
 - public lectures, generally towards 7th-12th grades students,
 - running and maintaining IMAGINARY exhibitions in Korea, and
 - exploring and developing new items in mathematics that can appeal to general public.

College Fellows

- Spring 2016 **Basic Theory of Partial Differential Equations**, *Dr. Will Feldman*, U of Chicago.
Winter 2016 **Basic Theory of Ordinary Differential Equations**, *Prof. Amie Wilkinson*, U of Chicago.
Fall 2015 **Complex Analysis**, *Prof. Amie Wilkinson*, U of Chicago.

Grader

- Spring 2014 **Real Analysis**, *Prof. Ji Oon Lee*, KAIST.
Fall 2012 **Functional Analysis**, *Prof. Ji Oon Lee*, KAIST.

Seminar Organizer

- 2012–2013 **Guerrilla Seminar**, *KAIST*.
First year graduate students' math seminar series
Founding member
2010 **Undergraduate Math Colloquium**, *KAIST*.

Honors and Awards

- 2014–present **Doctorial Study Abroad Program**.
Korea Foundation for Advanced Studies
2013–2014 **Kwanjeong Scholarship for Korean Graduate Students**.
Scholarship program for graduate students in Korea
2011 **Dean's list**.
College of Natural Science, KAIST
2009–2012 **Korea Student Aid Foundation, Presidential Scholarship**.
Scholarship program for undergraduate students in Korea