

# Seung uk Jang

---

## Contact Details

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

e-Mail seungukj@uchicago.edu

## 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 eigenfunctions**, *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

- 2022 **Kummer Rigidity for Hyperbolic Hyperkähler Automorphisms**, *BiSTRO mini conference*.
- 2022 **Currents and Plurisubharmonic Potentials**, *IUPUI*.  
Presented in learning talks of 2022 Several Complex Dynamics School
- 2021 **Kummer Rigidity for Hyperbolic Hyperkaehler Automorphisms**, *University of Chicago*.  
UChicago Dynamics Seminar

*Department of Mathematics, University of Chicago*  
*5734 S University Ave, Chicago, IL, 60637, USA*  
✉ [seungukj@uchicago.edu](mailto:seungukj@uchicago.edu)

- 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
- 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.**
- Winter 2022 Graduate Student Lecturer for various courses, in:
- Frechman Calculus course (Math 151-153): Fall 2019 – Spring 2020, Fall 2020 – Winter 2021 (Remote), Fall 2021 – Winter 2022
  - *Mathematical Methods for Social Sciences* (Math 195): Spring 2021

### 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

*Department of Mathematics, University of Chicago*  
5734 S University Ave, Chicago, IL, 60637, USA  
✉ seungukj@uchicago.edu

- 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