

Curriculum Vitae for Su-ion Ih

Department of Mathematics
University of Colorado at Boulder
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Education **Brown University**, Providence, Rhode Island
Ph.D. in Mathematics, May, 2000

Academic Positions **Assistant/Associate Professor (Aug. 2005–Present)**
Department of Mathematics, University of Colorado at Boulder
Post-Doctoral Associate and Part-time Instructor (Aug. 2003–Aug. 2005)
Department of Mathematics, University of Georgia
Research Assistant Professor (Aug. 2000–Aug. 2003)
Department of Mathematics, Statistics, and Computer Science, University of Illinois at Chicago

Teaching Experience (Recent) University of Colorado courses:
Spring 2019 Abstract algebra 1;
Fall 2018 Introduction to Coding and Cryptography & Introduction to number theory (graduate);
Spring 2018 Analytic number theory (graduate);
Fall 2017 Introduction to discrete mathematics & Abstract algebra 1;
Spring 2017 Introduction to discrete mathematics & Introduction to complex variables;
Fall 2016 Introduction to number theory (graduate);
Spring 2016 Abstract algebra 1;
Fall 2015 Calc 3 (coordinator) & Introduction to Coding and Cryptography (undergraduate + graduate);
Spring 2015 Introduction to the theory of numbers;

Students Supervised Ruofan Li (Ph.D., Current)
Nathan Wakefield (MS, Fall 2010/ Ph.D, Spring 2013 “*Primitive Divisors in Generalized Iterations of Chebyshev Polynomials*”; Assistant Professor at the University of Nebraska, Lincoln)
Jinjoo Yoo (MS, Spring 2012)
Bryan Abbe (MS, Spring 2012)
Krisztina Vanyi (MS, Spring 2011)
Amy Lisa Feaver (née Amy Lisa Keighley) (MS, Fall 2010)
David H. Wayne (MS, with the thesis “*On the irreducibility of a polynomial modulo p ,*” Spring 2010)

Post-docs Supervised T. Alden Gassert (co-supervised with K. Stange, Fall 2014–Spring 2016)

Professional Membership American Mathematical Society (AMS)

Talks (Recent & Selected) Korea Institute for Advanced Study, Seoul, Korea (December 21, 2018)
Korea University Colloquium, Seoul, Korea (December 26, 2017)
Journées Arithmétique, 29th, Debrecen, Hungary (July 9, 2015)
The AMS Joint Mathematics Meetings, San Antonio, TX (January 12, 2015)
Korea University Colloquium, Seoul, Korea (January 29, 2013)

- Conferences Organized** Co-organizer (with T. Tucker) of the special session “Dynamics and Arithmetic Geometry” of the AMS (= American Mathematical Society) Western Sectional Meeting, CU, Boulder, April 13-14, 2013
- Conferences Attended (Recent & Selected)**
- International Congress of Mathematicians*, Rio de Janeiro, Brazil, August 1–9, 2018
 - Around functional transcendence*, Mathematical Institute, Oxford, England, June 26–29, 2018
 - Effective methods for Diophantine problems*, Lorentz Center, Leiden, Netherlands, June 18–22, 2018
 - Birational geometry and arithmetic*, ICERM, Providence, RI, May 14–18, 2018
 - Intercity seminar on Arakelov theory*, Capital Normal University, Beijing, China, September 4–8, 2017
 - Specialization problems in Diophantine geometry: Umberto Zannier’s 60th birthday conference*, Cetraro, Italy, July 9–14, 2017
 - Journées Arithmétique*, 30th, Caen, France, July 3–7, 2017
 - Workshop on O-minimality and Diophantine applications*, The Fields Institute, Toronto, Canada, June 19–23, 2017
 - Workshop on Heights and Applications to Unlikely Intersections*, The Fields Institute, Toronto, Canada, February 13–17, 2017
- Publications**
- [1] *Height uniformity for algebraic points on curves*, Su-ion Ih
Compositio Math. **134** (1) (2002), 35–57.
 - [2] *Equidistribution of small subvarieties of an abelian variety*, Matthew Baker, and Su-ion Ih
New York J. of Math. **10** (2004), 279–285.
 - [3] *Height uniformity for integral points on elliptic curves*, Su-ion Ih
Transactions of the Amer. Math. Soc. **358** (2006), no. 4, 1657–1675.
 - [4] *A finiteness property of torsion points*, Matthew Baker, Su-ion Ih, and Robert Rumely
Algebra & Number Theory, Vol. **2** (2008), no. 2, 217–248.
 - [5] *Algebraic points on the projective line*, Su-ion Ih
J. of the Korean Math. Soc. **45** (2008), no. 6, 1635–1646.
 - [6] *A finiteness property for preperiodic points of Chebyshev polynomials*, Su-ion Ih, and Thomas J. Tucker
Int. J. of Number Theory, vol **6** (2010), no. 5, 1011–1025.
 - [7] *A nondensity property of preperiodic points on Chebyshev dynamical systems*, Su-ion Ih
J. of Number Theory, **131** (2011), no. 4, 750–780.
 - [8] *A nondensity property of preperiodic points on the projective plane*, Su-ion Ih
J. of the London Math. Soc. (2), vol. **83** (2011), part 3, 691–710.
 - [9] *Integral division points on curves*, David Grant, and Su-ion Ih
Compositio Math. **149** (2013), 2011–2035.
 - [10] *Integral points on the Chebyshev dynamical systems*, Su-ion Ih
J. of the Korean Math. Soc. **52** (2015), no. 5, 955–964.
 - [11] *Distribution of integral division points on the algebraic torus*, Su-ion Ih, and Philipp Habegger
Transactions of the Amer. Math. Soc. vol. **371** (2019), no. 1, 357–386.