

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 2022 Introduction to complex variables;
Fall 2021 Introduction to Coding and Cryptography (undergraduate + graduate);
Introduction to number theory (graduate);
Spring 2021 Introduction to discrete mathematics;
Fall 2020 Introduction to discrete mathematics & Linear algebra for non-math majors;
Fall 2019 Introduction to discrete mathematics & Introduction to Coding and Cryptography;
Spring 2019 Abstract algebra 1;

Students Supervised Ruofan Li (Ph.D., Spring 2021)
“*Primitive prime divisors, rings of integers and class numbers in arithmetic dynamics*”
Post-Doc at South China University of Technology
Nathan Wakefield (MS, Fall 2010/ Ph.D, Spring 2013)
“*Primitive Divisors in Generalized Iterations of Chebyshev Polynomials*”
Associate 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, Spring 2010)
with the thesis “*On the irreducibility of a polynomial modulo p* ”

Post-docs Supervised T. Alden Gassert (Fall 2014 – Spring 2016)
co-supervised with K. Stange
Visiting Assistant Professor at Hobart and William Smith Colleges

Talks (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)

- 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 (Selected)** *Algebraic Dynamics and its Connections to Difference and Differential Equations* (Online), Banff International Research Station, Banff, Canada, November 14–November 19, 2021
Inter-universal Teichmüller Theory (IUT) Summit 2021 (online), RIMS workshop, September 7–September 10, 2021
Combinatorial Anabelian Geometry and Related Topics (online), RIMS workshop, July 5–July 9, 2021
Foundations and Perspectives of Anabelian Geometry (online), RIMS workshop, June 28–July 2, 2021
- 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*, Philipp Habegger and Su-ion Ih
Transactions of the Amer. Math. Soc. vol. **371** (2019), no. 1, 357–386.
[12] *Discreteness of postcritically finite maps in p -adic moduli space*, R. L. Benedetto and S. Ih
Submitted to a journal, preprint (2020), [arXiv:2005.04656](https://arxiv.org/abs/2005.04656).
[13] *A finiteness property of postcritically finite unicritical polynomials*, R. L. Benedetto and S. Ih
Submitted to a journal, preprint (2020), [arXiv:2010.15941](https://arxiv.org/abs/2010.15941).