

Curriculum Vitae for Su-ion Ih

Department of Mathematics
University of Colorado at Boulder
Boulder, CO 80309-0395
(303) 492-7148
ih@math.colorado.edu

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
Research Interests	Number Theory, Arithmetic Geometry, and Algebraic Geometry
Teaching Experience	University of Colorado courses: Spring 2024 Introduction to discrete mathematics; Fall 2023 Linear algebra for non-math majors & Introduction to number theory (graduate)
Students Supervised	Ruofan Li (Ph.D., Spring 2021) “ <i>Primitive prime divisors, rings of integers and class numbers in arithmetic dynamics</i> ” Post-Doc at South China University of Technology Nathan Wakefield (MS, Fall 2010/ Ph.D., Spring 2013) “ <i>Primitive Divisors in Generalized Iterations of Chebyshev Polynomials</i> ,” Spring 2013 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 “ <i>On the irreducibility of a polynomial modulo p</i> ”
Post-docs Supervised	T. Alden Gassert (Fall 2014 – Spring 2016) co-supervised with K. Stange Director of Institutional Research at Hobart and William Smith Colleges
Talks (Selected)	<i>Journées Arithmétique</i> , 32 nd , Nancy, France (July 3, 2023) Korea Institute for Advanced Study, Seoul, Korea (December 21, 2018) Korea University Colloquium, Seoul, Korea (December 26, 2017)
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)**
- Journées Arithmétiques*, 32nd, Nancy, France, July 3–7, 2023
- The Second JNT Biennial Conference in Number Theory and Study Days on Diophantine Geometry*, Cetraro, Calabria, Italy, July 18–27, 2022
- La grandezza dei punti piccoli Celebrating Francesco Amoroso's 60th birthday*, PISA, Italy, May 23–25, 2022
- Leuca2022 Celebrating Claude Levesque's, Damien Roy's and Michel Waldschmidt's birthdays Joint with the sixth mini symposium of the Roman Number Theory Association*, Marina di San Gregorio, Patù (Lecce), Italy, May 16–21, 2022
- 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] *A finiteness property of postcritically finite unicritical polynomials*, Robert L. Benedetto and Su-ion Ih
Math. Res. Lett., vol. **30** (2023) no. 2, 295–317.
- [13] *Discreteness of postcritically finite maps in p -adic moduli space*, Robert L. Benedetto and Su-ion Ih
To appear in Transactions of the Amer. Math. Soc.
- [14] *An arithmetic property of torsion subvarieties of an algebraic torus*, Su-ion Ih
Submitted to a reviewed journal for publication.
- [15] *Strong uniformity for integral points on an algebraic torus over torsion divisors*, Su-ion Ih and P. Corvaja
Preprint.
- [16] *Division subvarieties of an algebraic torus*, Su-ion Ih
Preprint.
- [17] *Strong uniformity for integral points on an algebraic torus over division divisors*, Su-ion Ih
Preprint.
- [18] *An infinitude of integral points on a line of the 2-dimensional algebraic torus*, Su-ion Ih
Preprint.