

Junxian Li

CONTACT INFORMATION	Mathematisches Institut Georg-August Universität Göttingen Bunsenstraße 3-5 D-37073 Göttingen Germany	junxian.li@mathematik.uni-goettingen.de www.math.illinois.edu/ jli135
RESEARCH INTERESTS	L -functions, Exponential Sums, Primes, Algebraic Curves, Dynamical Systems, Ergodic Theory, Additive Combinatorics.	
EMPLOYMENT	Georg-August Universität Göttingen Postdoctoral Research Assistant Advisor: Valentin Blomer	
EDUCATION	University of Illinois at Urbana-Champaign Ph.D. in Mathematics, August 2018 Advisor: Alexandru Zaharescu Nanjing University B.A. in Mathematics, May 2013	
PUBLICATIONS	<i>Zeros of a family of approximations of Hecke L-functions associated with cusp forms</i> (with A.Roy and A. Zaharescu), Ramanujan J., 41(1-3):391–419, 2016. <i>Smooth L^2 distances and zeros of approximations of Dedekind zeta functions</i> (with M. Nastasescu, A. Roy, and A. Zaharescu), Manuscripta Math., 154(1-2):195–223, 2017. <i>A lower bound for the least prime in an arithmetic progression</i> (with K. Pratt and G. Shakan), The Quarterly Journal of Mathematics (Oxford), 68(3):729–758, 2017. <i>Exact evaluation of second moments associated with some families of curves over a finite field</i> (with R. Donepudi and A. Zaharescu), Finite Fields Appl., 48:331–355, 2017. <i>On distinct consecutive r-difference</i> (with G. Shakan), J. Number Theory. to appear, arXiv preprint arXiv:1708.03742. <i>Leading Digits of Mersenne Numbers</i> (with Z. Cai, M Faust, A.J. Hildebrand, and Y. Zhang), Exp. Math. to appear, arXiv preprint arXiv:1712.04425. <i>Ducci iterates and similar ordering on sets of visible points</i> (with A. Tamazyan and A. Zaharescu), submitted. <i>A binary quadratic Titchmarsh divisor problem</i> , arXiv preprint arXiv:1808.00837 <i>A local Benford Law for a class of arithmetic sequences</i> (with Z. Cai and A.J. Hildebrand), Int. J. Number Theory. to appear, arXiv preprint arXiv:1808.01496 <i>Almost Beatty Partitions</i> (with A.J. Hildebrand, X. Li, and Y. Xie), arXiv preprint arXiv:1809.08690	

The final problem: an identity from Ramanujan's lost notebook(with B. Berndt and A. Zaharescu), submitted.

Large values of degree 1 L -functions at the zeros of other L -functions, preprint.

HONORS AND AWARDS	<i>Bateman Fellowship in Number Theory</i>	<i>Spring 2018</i>
TEACHING EXPERIENCE	Math 415 Linear Algebra	<i>UIUC, Fall 2017</i>
	Math 415 Linear Algebra	<i>UIUC, Spring 2017</i>
	Math 231 Calculus II	<i>UIUC, Spring 2016</i>
	Math 241 Calculus III	<i>UIUC, Fall 2016</i>
	Math 241 Calculus III	<i>UIUC, Spring 2015</i>
PROFESSIONAL SERVICES	<ul style="list-style-type: none"> □ <i>Organizer of Graduate Student Number Theory Seminar in UIUC</i> □ <i>Illinois Geometry Lab Mentor</i> <ul style="list-style-type: none"> • Almost Beatty Partitions • Beatty sequences, and Partitions of the Integers • Chaotic maps and exotic number systems • Finding integers in group orbits • Local Benford's Law • Leading digit distribution • Random Walk in number theory • Fractals, Patterns and Randomness in Number Theory • Fourier Series with Number theoretic coefficients • Symmetry in Nature 	<p><i>2016-2018</i></p> <p><i>Fall 2018</i></p> <p><i>Spring 2018</i></p> <p><i>Fall 2017</i></p> <p><i>Spring 2017</i></p> <p><i>Fall 2016</i></p> <p><i>Spring 2016</i></p> <p><i>Fall 2015</i></p> <p><i>Spring 2015</i></p> <p><i>Fall 2014</i></p> <p><i>Spring 2014</i></p>
CONFERENCES AND SEMINAR TALKS	<p><i>Extreme values of L-functions</i></p> <p>Oberseminar analytic number theory, Georg-August Universität Göttingen.</p> <p><i>Primes in arithmetic progressions</i></p> <p>Junior Mathematics Colloquium, Georg-August Universität Göttingen.</p> <p><i>Primes in arithmetic progressions</i></p> <p>Where Geometry meets Number Theory, a conference in honor of the 60th birthday of Per Salberger, Gothenburg.</p> <p><i>The least prime in an arithmetic progression</i></p> <p>Joint Mathematics Meeting, Atlanta.</p> <p><i>On the least prime in an arithmetic progression</i></p> <p>Number Theory Seminar, UIUC.</p> <p><i>A lower bound on the least prime in an arithmetic progression,</i></p> <p>Workshop on Automorphic Forms and Related Topics, Sarajevo .</p> <p><i>Approximations of L-functions</i></p> <p>2015 Midwest Number Theory Conference for Graduate Students and Recent PhD's.</p> <p><i>Approximations of L-functions</i></p> <p>Graduate Student Number Theory Seminar, UIUC.</p> <p><i>Bailey Pairs and Bailey chains</i></p>	<p><i>Nov 2018</i></p> <p><i>Dec 2017</i></p> <p><i>July 2017</i></p> <p><i>Jan 2017</i></p> <p><i>Sep 2016</i></p> <p><i>July 2016</i></p> <p><i>Oct 2015</i></p> <p><i>Nov 2015</i></p>

	q series Seminar, UIUC.	<i>April 2015</i>
	<i>Basic Hypergeometric functions</i> q series Seminar, UIUC.	<i>March 2015</i>
RESEARCH EXPERIENCE	Building Bridges: 4th EU/US Summer School and Workshop on Automorphic Forms and Related Topics	<i>July 2018</i>
	Hausdorff School: L-functions: Open Problems and Current Methods	<i>June 2018</i>
	MRC: Number Theoretic Methods in Hyperbolic Geometry	<i>June 2018</i>
	Probability in Number Theory	<i>May 2018</i>
	Arbeitsgemeinschaft in Oberwolfach	<i>Oct 2017</i>
	MSRI Summer Graduate School on Automorphic Forms and the Langlands Program	<i>August 2017</i>
	PCMI Graduate Summer School on random matrices	<i>June 2017</i>
	University of Houston Summer School on Dynamical Systems	<i>May 2017</i>
	West Coast Algebraic Topology Summer School	<i>August 2016</i>
	Building Bridges: 3rd EU/US Summer School and workshop on Automorphic Forms	<i>July 2016</i>
	UNCG Summer School in Computational Number Theory	<i>June 2016</i>
	Houston Summer School on Dynamical Systems	<i>May 2016</i>
	UNCG Summer School in Computational Number Theory	<i>May 2015</i>
	Exchange in University of Wisconsin-Madison	<i>Fall 2012</i>
OUTREACH ACTIVITIES	<input type="checkbox"/> Four Color Fest <input type="checkbox"/> A Math Carnival at Illinois-Gathering for Gardener <input type="checkbox"/> Science at the Market	<i>Nov 1-4, 2017</i> <i>January 28, 2017</i> <i>August, 2013</i>
SKILLS	Programming: C++, Mathematica, Matlab, Python Languages: English, Chinese	