

Quanli Shen

Curriculum Vitæ

University of Lethbridge,
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Research Interest

Analytic number theory; Moments of L -functions; Explicit results; Green-Tao method.

Education

- 2017-2021 **Doctor of Philosophy**, *Department of Mathematics and Computer Science, University of Lethbridge, Alberta, Canada.*
Advisors: Drs. Habiba Kadiri and Nathan Ng.
- 2013-2016 **Master of Science**, *Department of Mathematics, Capital Normal University, Beijing, China.*
Advisor: Dr. Yonghui Wang.
- 2008-2012 **Bachelor of Science**, *Department of Mathematics, Linyi university, Shandong, China.*

Employment

- 2016-2017 **Teacher**, *Linyi Experimental Middle School, Shandong, China.*

Papers

- * (with Nathan Ng and Peng-Jie Wong) *The eighth moment of the Riemann zeta function*, 56 pages, preprint available at [arXiv:2204.13891](https://arxiv.org/abs/2204.13891).
- * *The first moment of quadratic twists of modular L -functions*, 17 pages, preprint available at [arXiv:2103.12284](https://arxiv.org/abs/2103.12284).
- * (with Elchin Hasanalizade and Peng-Jie Wong) *Counting zeros of the Riemann zeta functions*, *Journal of Number theory* 235(2022), 219-241.
- * (with Elchin Hasanalizade and Peng-Jie Wong) *Counting zeros of Dedekind zeta functions*, *Mathematics of Computation* 91(2021), no. 333, 277-293.
- * *The fourth moment of quadratic Dirichlet L -functions*, *Mathematische Zeitschrift* 298 (2020), 713-745.
- * *The ternary Goldbach problem with primes in positive density sets*, *Journal of Number Theory* 168 (2016), 334-345.

Teaching Experience

- Fall 2019 **Tutorial Instructor**, *Calculus I, Applied Calculus I*, University of Lethbridge, Canada.
- Spring 2019 **Tutorial Instructor**, *Accelerated Calculus II, Elementary Linear Algebra*, University of Lethbridge, Canada.
- Fall 2018 **Tutorial Instructor**, *Calculus II*, University of Lethbridge, Canada.

Awards and Honours

- Dec. 2019 **Graduate Student Travel Funding**, *Canadian Mathematical Society, Canada.*

Nov. 2019 **Dissemination Award**, *University of Lethbridge*, Canada.

Talks in Seminars and Conferences

- Nov. 2021 *The first moment of quadratic twists of modular L -functions*, Number Theory Seminar (online), The University of Mississippi, US, Nov. 03, 2021.
- Feb. 2021 *The first moment of quadratic twists of modular L -functions*, FRG Graduate Student Seminar (online), American Institute of Mathematics, US, Feb. 15, 2020.
- Feb. 2021 *The first moment of quadratic twists of modular L -functions*, Number Theory and Combinatorics Seminar (online), University of Lethbridge, Canada, Feb. 01, 2021.
- Dec. 2020 *The fourth moment of quadratic Dirichlet L -functions*, Canadian Mathematical Society Winter Meeting (online), Canada, Dec. 04, 2020.
- Oct. 2020 *The fourth moment of quadratic Dirichlet L -functions*, FRG workshop (online), American Institute of Mathematics, US, Oct. 27, 2020.
- May 2020 *The fourth moment of quadratic Dirichlet L -functions*, Alberta Number Theory Days XII (online), BIRS, Banff, Alberta, Canada, May 02-03, 2020.
- Oct. 2019 *The fourth moment of quadratic Dirichlet L -functions*, Canadian Mathematical Society Winter Meeting, Student Session, Toronto, Canada, Dec. 06-09, 2019.
- Oct. 2019 *The fourth moment of quadratic Dirichlet L -functions*, Number Theory and Combinatorics Seminar, University of Lethbridge, Canada, Oct. 28, 2019.
- Apr. 2019 *The ternary Goldbach problem with primes in positive density sets*, Number Theory and Combinatorics Seminar, University of Lethbridge, Canada, Apr. 01, 2019.
- Nov. 2018 *A brief introduction to Gowers' norm and generalized von Neumann theorem*, Students Seminar, University of Lethbridge, Canada, Nov. 09, 2018.

Conferences and Workshops attended

- July 2020 FRG workshop (online), American Institute of Mathematics, US, July 27-31, 2020.
- Dec. 2019 Canadian Mathematical Society Winter Meeting, Toronto, Canada, Dec. 06-09, 2019.
- May 2019 NSF-CBMS Conference: L -functions and Multiplicative Number Theory, University of Mississippi, US, May 20-24, 2019.
- May 2019 Alberta Number Theory Days XI, BIRS, Banff, Alberta, Canada, May 10-12, 2019.
- May 2018 Alberta Number Theory Days X, BIRS, Banff, Alberta, Canada, May 11-13, 2018.

Others

Citizenship: China.

Languages: Chinese (native), English (advanced).