

Bin Guan

CONTACT INFORMATION	Mingde Building, Room C713 Shandong University No. 27 Shanda South Road Jinan, Shandong, China, 250100	bguan.math@sdu.edu.cn https://sites.google.com/view/binguan/
RESEARCH INTERESTS	Number theory, representation theory – especially automorphic forms, automorphic representations, and L -functions.	
POSITIONS	Shandong University, Shandong, China Postdoctoral Fellow (Fall 2020 – present)	
EDUCATION	The Graduate Center, The City University of New York, NY, USA Ph.D. in Mathematics, June 2020 <ul style="list-style-type: none">• Dissertation Topic: Averages and nonvanishing of central values of triple product L-functions via the relative trace formula• Advisor: Prof. Brooke Feigon Shandong University, Shandong, China M.S. in Mathematics, June 2015 <ul style="list-style-type: none">• Dissertation Topic: On application of (\mathfrak{g}, K)-cohomology to calculation of cohomology of locally symmetric spaces• Advisor: Prof. Jing-Song Huang B.S. in Mathematics, June 2012 <ul style="list-style-type: none">• Dissertation Topic: The Clebsch–Gordan problem of the category of nilpotent representations of \tilde{A}_n and its nilpotent representation ring• Advisor: Prof. Hualin Huang	
PUBLICATIONS	Article in progress: <ol style="list-style-type: none">1. <i>Averages of central values of triple product L-functions</i>	
CONFERENCE TALKS	<i>Averages of central values of triple product L-functions</i> , Junior Number Theory Days 2019, Johns Hopkins University. (December 2019) <i>Averages of central values of triple product L-functions</i> , 2019 Maine/Québec Number Theory Conference, The University of Maine. (October 2019) <i>Exact averages of central values of triple product L-functions via the relative trace formula</i> , 33rd Automorphic Forms Workshop, Duquesne University. (March 2019)	
INVITED TALKS	<i>Averages of central values of triple product L-functions</i> , Binghamton University. (March 2020) <i>Exact averages of central values of triple product L-functions via the relative trace formula</i> , Shenzhen University. (July 2019) <i>Exact averages of central values of triple product L-functions via the relative trace formula</i> , Shandong University at Weihai. (June 2019)	

An introduction to the Jacquet–Langlands correspondence and the relative trace formula, series lectures, Shandong University. (May 2019)

SEMINAR TALKS Co-organizer and speaker at the *Automorphic Forms and L-functions Student Seminar*, The Graduate Center, CUNY. (Summer 2016 - Fall 2018)
Abstracts available at <https://bit.ly/2XONOqE>.

Co-organizer and speaker at the *Pure Math Student Seminar of Shandong University*, Shandong University, Jinan, China. (Fall 2009 - Spring 2014)

OTHER TALKS *Overview of the Langlands conjectures*, Oral exam talk, The Graduate Center, CUNY. (September 2017)

Elliptic curves, Prof. L. Szpiro’s course, The Graduate Center, CUNY. (December 2016)

The Hilbert function and the dimension of a variety, Algebraic Geometry Student Seminar, The Graduate Center, CUNY. (March 2016)

Sheaf structure of $\text{Spec } A$ on an A -module, Prof. L. Szpiro’s course, The Graduate Center, CUNY. (October 2015)

Shandong University

- Dec. 2012, Schur–Weyl duality of symmetric group S_n and $GL(n, \mathbb{C})$
- Apr. 2013, Expanding maps on the circle S^1
- Jun. 2013, Branching law from $U(n)$ to $U(n - 1)$
- Nov. 2013, Discussion on Manjul Bhargava’s thesis: *Higher composition laws and applications*
- Dec. 2013, Leray–Schauder degree
- Apr. 2014, Group algebra and its representation of a topological group and a Lie group
- May. 2014, Representation of symmetric groups

TEACHING EXPERIENCE

Spring	2019	Lecturer, Math 39200 Linear Algebra and Vector Analysis for Engineers, The City College of New York
Fall	2018	Lecturer, Math 20500 Elements of Calculus, The City College of New York
Spring	2018	Lecturer, Math 20200 Calculus II, The City College of New York
Fall	2017	Lecturer, Math 20500 Elements of Calculus, The City College of New York
Spring	2017	Lecturer, Math 20200 Calculus II, The City College of New York
Fall	2016	Lecturer, Math 20100 Calculus I, The City College of New York
Fall	2014	Teaching Assistant, Basics in Algebra and Geometry, Shandong University
Spring	2014	Teaching Assistant, Advanced Abstract Algebra, Shandong University
Fall	2013	Teaching Assistant, Differential Geometry, Shandong University
Spring	2013	Teaching Assistant, Abstract Algebra, Shandong University
Fall	2012	Teaching Assistant, Differential Geometry, Shandong University

EXTENDED
PROFESSIONAL
TRAVEL

January 2020 Joint Mathematics Meetings, Denver, CO, USA
December 2019 Johns Hopkins Junior Number Theory Days, Johns Hopkins University, Baltimore, MD, USA
October 2019 Maine/Québec Number Theory Conference, The University of Maine, Orono, ME, USA
June 2019 Workshop on Number Theory and Dynamic Systems, Shandong University at Weihai, Weihai, Shandong, China
April 2019 Ninth Annual Upstate Number Theory Conference, Cornell University, Ithaca, NY, USA
March 2019 33rd Automorphic Forms Workshop, Duquesne University, Pittsburgh, PA, USA
December 2018 On the Langlands Program: Endoscopy and Beyond, Institute for Mathematical Sciences – NUS, Singapore
May 2018 Representation Theory, Geometry, and Quantization: The Mathematical Legacy of Bertram Kostant, Massachusetts Institute of Technology, Cambridge, MA, USA
July 2017 MSRI Summer school: Automorphic Forms and the Langlands Program, Mathematical Sciences Research Institute, Berkeley, CA, USA
May 2015 Conference on Arithmetic Algebraic Geometry in honor of Professor Nicholas Katz’s 71 birthday, Academy of Mathematics and Systems Science, Chinese Academy of Science, Beijing, China
June 2014 International Workshop on Representation Theory and Harmonic Analysis, Chern Institute of Mathematics, Tianjin, China
January 2014 Number Theory Conference in Honor of Peter Sarnak, Shandong University, Jinan, Shandong, China
August 2012 Workshop on Algebraic and Arithmetic Geometry, Beijing International Center for Mathematical Research, Beijing, China
July 2012 Summer Course: Arithmetic, Algebra and Geometry, Mathematical Sciences Center in Tsinghua University, Beijing, China

HONORS AND
AWARDS

2015–2020 Graduate Assistantship 5-year PhD Fellowship
The Graduate Center, CUNY
2009–2011 Outstanding Student Scholarship
Shandong University

RELEVANT
SKILLS

Languages: English (Fluent), Chinese (Native), French (Basic)
Computing: C++, MATLAB, Python, SageMath
Writing: \LaTeX

REFERENCES

Brooke Feigon, Associate Professor, Department of Mathematics,
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Jing–Song Huang, Chair Professor, Department of Mathematics,
The Hong Kong University of Science and Technology,
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