

Han Li

CONTACT INFORMATION

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EDUCATION

Yale University (New Haven, CT) Ph.D. in Mathematics. Thesis advisor: Professor Gregory A. Margulis	Sep 2008 - May 2014
Nankai University (Tianjin, China) B.S. in Mathematics	Sep 2004 - Jun 2008

ACADEMIC POSITIONS

Wesleyan University (Middletown, CT) Assistant Professor of Mathematics (Tenure Track)	Since Jul 2015
The Mathematical Sciences Research Institute (Berkeley, CA) Postdoctoral Fellow, on leave from UT Austin	Jan 2015 - May 2015
The University of Texas at Austin (Austin, TX) R. H. Bing Instructor (Postdoc position)	Aug 2014 - Jun 2015

PUBLICATIONS

- New bounds in reduction theory of indefinite ternary integral quadratic forms* (with G. A. Margulis)
Advances in Mathematics, 327 (2018), 410-424.
- Effective estimates on integral quadratic forms: Masser's conjecture, generators of orthogonal groups, and bounds in reduction theory* (with G. A. Margulis)
Geometric and Functional Analysis, 26 (2016), no. 3, 874-908.
- Small generators of cocompact arithmetic Fuchsian groups* (with Michelle Chu)
Proceedings of the American Mathematical Society, 144 (2016), no. 12, 5121-5127.
- Effective equidistribution of translates of maximal horospherical measures in the space of lattices* (with K. Dabbs and M. Kelly)
Journal of Modern Dynamics, 10 (2016), 229-254.

5. *Effective limit distributions of the Frobenius numbers*
Compositio Mathematica, vol. 151, issue 05, 2015, pp. 898-916.
6. *Spectral gap actions and invariant states* (with C.-K. Ng)
International Mathematics Research Notices, vol. 2014, issue 18, pp 4917-4931.

PREPRINTS

1. *On effective equidistribution for quotients of $SL(d)$* (with M. Aka, M. Einsiedler and A. Mohammadi)
submitted for publication.

ACADEMIC GRANTS AND AWARDS

- NSF Grant DMS #1700109, “Group Actions, Homogeneous Dynamics, and Number Theory”, Principal Investigator, 2017-2020
- Collaboration Grants for Mathematicians, the Simons Foundation, 2016 - 2021 (terminated in 2018 due to the award of an NSF Grant)
- Silver Medal of PhD Thesis, New World Mathematics Awards, 2015
- Gamelin Endowed Postdoctoral Fellowship, MSRI, 2015
- AMS Simons Travel Grant, the Simons Foundation, 2014 - 2016

INVITED ACADEMIC TALKS

Conference Talks

1. Conference on the Arithmetic Theory of Quadratic Forms, **Seoul National University**, Korea, Jan 2019.
2. Manhattan Algebra Day, **City University of New York**, Dec 2016.
3. Advances in Homogeneous Dynamics, **MSRI**, May 2015
4. Introductory Workshop: Geometric and Arithmetic Aspects of Homogeneous Dynamics, **MSRI**, Feb 2015
5. ICM Satellite Conference on Quadratic Forms and Related Topics, **Gyeongju**, Korea, Aug 2014
6. Dynamics on Homogeneous Spaces and Applications, **Université Lyon 1**, France, Jun 2013
7. AMS sectional meeting, **Boston College**, Apr 2013
8. International Conference on Abstract Harmonic Analysis, **Nankai University**, China, Jun 2011
9. AMS sectional meeting, **Holy Cross College**, Apr 2011
10. International Conference on Banach Spaces and Operator Spaces, **Nankai University**, China, Jul 2007

Colloquia

1. Brandeis-Harvard-Mit-Northeastern Joint Mathematics Colloquium, **Brandeis University**, Mar 2016
2. Department colloquium, **Wesleyan University**, Oct 2014

Lecture Series

1. Dynamics of Group Actions (8 lectures), **Tsinghua University**, China, Jul - Aug 2016

Seminars

1. Dynamical systems seminar, **Penn State University**, Apr 2018

2. Algebra and number theory seminar, **Wesleyan University**, Mar 2018
3. Dynamics seminar, **University of Chicago**, Feb 2018
4. Math department seminar, **Capital Normal University**, China, Jun 2016
5. Math department seminar, **Peking University**, China, May 2016
6. Geometry seminar, **University of Michigan**, Oct 2015
7. Group, Lie and number theory seminar, **University of Michigan**, Oct 2015
8. Group actions and dynamics seminar, **The University of Texas at Austin**, Apr 2015
9. Postdoc seminar, **MSRI**, Apr 2015
10. Group actions and dynamics seminar, **The University of Texas at Austin**, Sep 2014
11. IMS number theory seminar, **The Chinese University of Hong Kong**, Hong Kong, Jun 2014
12. "Every topics" seminar, **Brandies University**, Mar 2014
13. Ergodic theory and dynamics seminar, **University of Illinois at Urbana-Champaign**, Mar 2014
14. Algebra seminar, **Wesleyan University**, Feb 2014
15. Group actions and dynamics seminar, **Yale University**, Jan 2014
16. Groups, dynamics and related topic seminar, **Technion**, Israel, Dec 2013
17. Ergodic theory seminar, **The Hebrew University of Jerusalem**, Israel, Dec 2013
18. Group actions and dynamics seminar, **The University of Texas at Austin**, Nov 2013
19. Group actions and dynamics seminar, **Texas A&M University**, Nov 2013
20. Linear analysis seminar, **Texas A&M University**, Nov 2013
21. Applied analysis seminar, **The University of Massachusetts Amherst**, Oct 2013
22. Dynamics and analysis seminar, **Wesleyan University**, Oct 2013
23. Group actions and dynamics seminar, **Yale University**, Oct 2013
24. Number theory seminar, **École polytechnique fédérale de Lausanne**, Switzerland, Jun 2013
25. Groups and geometry seminar, **Université de Geneve**, Switzerland, Dec 2012
26. Dynamics seminar, **Université Paris-Sud 11 (Orsay)**, France, Nov 2012
27. Dynamics seminar, **Université de Rennes 1**, France, Nov 2012
28. Algebra seminar, **The State University of New York, Buffalo**, Oct 2012
29. Math department seminar, **Xiamen University**, China, Jul 2012
30. Math department seminar, **Shandong University**, China, Jun 2012
31. Math department seminar, **Peking University**, China, May 2012
32. Math department seminar, **Nankai University**, China, May 2012
33. Math department seminar, **Fudan University**, China, May 2012
34. Ergodic theory and statistical mechanics seminar, **Princeton University**, May 2012
35. Group actions and dynamics seminar, **Yale University**, Mar 2012
36. Number theory seminar, **University of Illinois at Urbana-Champaign**, Feb 2011
37. Ergodic theory and statistical mechanics seminar, **Princeton University**, Feb 2011
38. Ergodic theory seminar, **Erwin Schrödinger Institute**, Austria, Jul 2010

SELECTED TEACHING EXPERIENCES

Wesleyan University

Math 222, Multivariable Calculus: Fall 2015, Fall 2016, Fall 2017, Fall 2018

Math 223, Linear Algebra: Spring 2016

Math 228, Discrete Mathematics: Fall 2015, Spring 2018

Math 231, An Introduction to Probability: Fall 2016, Fall 2018

Math 255, Fundamentals of Analysis II: Fall 2017

Math 516, Analysis II: Spring 2016, Spring 2018

The University of Texas at Austin

M427L, Advanced Calculus for Applications II: Fall 2014

Yale University

Math 120, Calculus of Functions of Several Variables: Spring 2013, Spring 2014

Math 115, Calculus of Functions of One Variable II: Fall 2010, Fall 2011

ACADEMIC SERVICES

Journal Refereeing

International Mathematics Research Notices, Compositio Mathematica, Dynamical Systems and Ergodic Theory, Journal of Modern Dynamics, Combinatorica, L'Enseign Math

Conference Organization

AMS Sectional Meeting: special session in homogeneous dynamics at Stony Brook University (co-organizer, March 2016)

Seminar/Colloquia Organization

The Coven/Wood Lecture Series in Mathematics at Wesleyan University (co-organizer, Spring 2016)

Mathematics Colloquia at Wesleyan University (organizer, Fall 2015, Spring 2016)

Analysis Seminar at Wesleyan University (co-organizer, since Fall 2015)

Topology et al. Seminar at Wesleyan University (co-organizer, since Fall 2015)

Group Actions and Dynamics Seminar at UT Austin (co-organizer, Fall 2014)

Other Departmental Services

DADCOM for academic year 2016-2017, 2018-2019

GRECO for academic year 2017-2018

Honor Presentation Supervision for Rocco Davino, academic year 2017-2018

Senior Thesis Supervision for Yiren Chai, academic year 2016-2017

Graduate Preliminary Exam Committee for Cameron Bishop, academic year 2015-2016