SHIWEN ZHANG

CURRICULUM VITAE

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Research Interests

 Mathematical Physics, Dynamical Systems, Spectral Theory, Quantum Mechanics, Harmonic Analysis, Partial Differential Equations

Employment

• 2016-present: Visiting Assistant Professor (Postdoc) in the Department of Mathematics at the Michigan State University, work with Professor Alexander Volberg.

Education

- **09/2013-06/2016, University of California, Irvine** Irvine, CA *Ph.D. Mathematics. Advisor: Svetlana Jitomirskaya*
- 09/2009-06/2013, Nanjing University Nanjing, China Graduate Student; transferred to UC Irvine, September 2013. Advisor: Jiangong You
- 09/2009-06/2010, BICMR, Peking University Beijing, China Exchange graduate student program
- **09/2005-06/2009, Nanjing University** Nanjing, China *B.S. Mathematics, June* 2009

Honors and Awards

 Kovalevsky Outstanding PhD Thesis Award, UC Irvine 	2016
• Euler Award for Outstanding Promise as a Graduate Student, UC Irvine	2014
Samsung scholarship, Nanjing University	2007
 National Encouragement scholarship, Nanjing University 	2006

Papers and Preprints

- S. Jitomirskaya, S. Zhang, Quantitative continuity of singular continuous spectral measures and arithmetic criteria for quasiperiodic Schrödinger operators. arXiv:1510.07086.
- S. Zhang, Mixed spectral types for one frequency discrete quasiperiodic Schrödinger operator. Proc. Amer. Math. Soc. 144, 2603-2609 (2016)
- J. You, S. Zhang, Q. Zhou, *Point spectrum for the quasiperiodic long range operators*. J. Spectr. Theory 4, 769-781 (2014)
- J. You, S. Zhang, Hölder Continuity of the Lyapunov Exponent for Analytic Quasiperiodic Schrödinger Cocycle with Weak Liouville Frequency. Ergodic Theory Dynam. Systems 34, 1395-1408 (2014)
- S. Zhang, Z. Zhao, Diffusion Bound and Reducibility for Discrete Schrödinger Equations with Tangent Potential. Frontiers of Mathematics in China 7, 1213-1235 (2012)

Teaching Experience

• University of California, Irvine — Irvine, CA

Teaching Assistant

Elementary Diff Equations

Winter 2016

• University of California, Irvine — Irvine, CA *Instructor*

• UCI Math 2B (Calculus 2). Course Website: https://eee.uci.edu/15f/44350

Fall 2015

• University of California, Irvine — Irvine, CA

Teaching Assistant

o Math of Finance

Summer 2015

o UCI Math 2B (Calculus 2)

Fall 2014

• Nanjing University — Nanjing, China

Bachelor's Thesis Instruction Assistant

Leader of undergraduate student thesis discussion group Spring 2012, Spring 2013
 I assisted Professor You in directing the B.S. Thesis research of 10 students over 2012-2013.

Invited Conference Talks

• AMS Special Session at Joint Mathematics Meeting, Seattle, WA Jan 6-9 2016

Special session at AMS Fall Western Sectional Meeting, Fullerton, CA
 Oct 24-25 2015

 Workshop: Spectral Properties of Quasicrystals via Analysis, Dynamics, and Geometric Measure Theory, BIRS, Oaxaca, Mexico
 Sep 27-Oct 2 2015

 Almost Periodic and Other Ergodic Problems, Isaac Newton Institute, University of Cambridge, UK
 Mar 20-May 20 2015

• 33nd Annual Western States Math-Physics Meeting, Caltech, Pasadena, CA Feb 16-17 2015

Special Session at USA-Uzbekistan Conference on Analysis and Mathematical Physics,
 CSUF, Fullerton ,CA
 May 20-24 2014

Invited Seminar Talks

 Dynamical Systems and Fractal Geometry Seminar, Mathematics Morningside center, CAS, Beijing, China.
 May 22 2015

Dynamical Systems Seminar, Nanjing University, Nanjing, China.
 July 20 2014

• Geometry-Analysis Seminar, Rice University, Houston, Texas. April 23 2014

Teaching/General audience Talks

 Department seminar, Loyola Marymount University, Los Angeles, CA. 	Nov 5 2015
Colloquium at CSULB, Long Beach, CA.	Mar 13 2015
 Geometry and Topology Seminar, CSUF, Fullerton, CA. 	Feb 20 2015

Talks at UCI

• Learning Seminar: Examples of Discontinuity of Lyapunov Exponent 1,11.	Feb 6, 13 2015
• Learning Seminar: Large Deviation Theory I,II.	Nov 7,14 2014
Math Physics Seminar: Spectral Packing Dimension.	April 17 2014
• Learning Seminar: Kotani Theory I,II,III.	Nov 8,15,22 2013
• Math Physics Seminar: <i>Point spectrum for quasiperiodic long range operators.</i>	Nov 17 2013

Last updated: Thursday 18th August, 2016