

## Chenxi Wu

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## Research field

Geometry and dynamics of translation surfaces and related fields.

## Education

B. Sc. in Mathematics, Peking university

July 2010.

Graduate study in Cornell university

2010-current

Advisor: John Smillie

PhD expected in Spring 2016

## Accepted Papers

- Chenxi Wu. The relative cohomology of abelian covers of the flat pillow-case. *Journal of Modern Dynamics*, doi:10.3934/jmd.2015.9.123
- Chenxi Wu. Uniform Discreteness of the Holonomy vectors of translation surfaces. To appear in *Israel Journal of Mathematics*
- Hyungryl Baik, Ahmad Rafiqi and Chenxi Wu. Constructing pseudo-Anosov maps with given dilatations. To appear in *Geometriae Dedicata*

## Work in preparation

- Lucien Clavier, Anja Randecker and Chenxi Wu. Rotational component spaces for infinite-type translation surfaces. *arXiv*: 1412.0633
- Hyungryl Baik, Ahmad Rafiqi and Chenxi Wu. Approximations to infinite type pseudo-Anosov maps
- A characterization of Bouw-Möller surfaces
- Lattice surfaces and smallest triangle ([url:http://www.math.cornell.edu/~wuchenxi/n10.pdf](http://www.math.cornell.edu/~wuchenxi/n10.pdf))

## Grants

KHYS Visiting Researcher Scholarship  
Graduate Fellowship, Cornell University

Summer 2014  
2010-2011

## Talks

- Singularities of infinite translation surfaces, Bugcat conference, Binghamton University, November 2015
- (With Ahmad Rafiqi) Building pseudo-Anosov maps, Young people seminar, Dynamical Developments: a conference in Complex Dynamics and Teichmüller theory Jacobs university, August 2015
- Building pseudo-Anosov maps, Max Planck Institute of Mathematics, August 2015
- End periodic maps and flat surfaces, Dynamics seminar, Cornell University, April 2015
- Building pseudo-Anosov maps, Bugcat conference, Binghamton University, October 2014
- Singularities of infinite translation surfaces, Dynamics seminar, Cornell University, October 2014
- Characterization of Bouw-Möller surfaces, Karlsruhe Institute of Technology, July 2014
- Horocycle orbit closures in strata, Ergodic theory seminar, UIUC, April 2014
- The affine group action on the cohomology of abelian covers of the pillowcase, Postdoc and Graduate student seminar, ICERM, October 2013

## Conference and Workshops

- Dynamical Developments: a conference in Complex Dynamics and Teichmüller theory, Jacobs University, Bremen, 08/2015
- Dynamics and Geometry in the Teichmüller Space, CIRM, Marseille, 07/2015
- Advances in Homogeneous Dynamics, MSRI, Berkeley, 05/2015
- Geometric Structures in Low-Dimensional Dynamics, ICERM, Providence, 11/2013
- Topology, Geometry and Group Theory, Informed by Experiment, ICERM, Providence, 10/2013
- Exotic Geometric Structures, ICERM, Providence, 09/2013
- Dynamics on parameter spaces 2013, Sde-Boker, 01/2013
- The horocyclic flow in different situations, CIRM, Marseille, 04/2012

## Teaching and Outreach

Instructor of Calculus I	Spring 2015
TA of Differential Equations	Fall 2014
TA of Multivariable Calculus for Engineer	Spring 2014
TA of Totally Awesome Math	Spring 2014
TA of Multivariable Calculus	Spring 2013
TA of Honors Calculus II	Fall 2012
Volunteering at Math Club of Ithaca High School	Fall 2011