

# Chia-Yen Tsai

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## EDUCATION

Ph.D Student, Mathematics, University of Illinois at Urbana-Champaign. Expected May 2010  
**Advisor:** *Christopher J. Leininger*

B. Applied Math, National Chiao-Tung University, Taiwan. June, 2003

## RESEARCH INTEREST

Mapping class groups, Teichmuller space and the curve complex.

## PUBLICATIONS

Chia-Yen Tsai. The asymptotic behavior of least pseudo-Anosov dilatations. *Geometry & Topology* 13 (2009) 2253-2278.

Vaibhav Gadre and Chia-Yen Tsai. Minimal pseudo-Anosov translation lengths on the complex of curves. In preparation.

## ACADEMIC EXPERIENCE

Mathematics Department Fellowship, UIUC. Spring 2010, Spring 2009

Research Assistant, UIUC. Fall 2009, Fall 2007

Teaching Assistant, UIUC. Six Semesters

## TALKS AND POSTERS

**AWM Workshop:** *Women Graduate Students and Recent PhDs, Joint Mathematics Meetings.* San Francisco, CA (scheduled). January 16, 2010

**CIRM: School before Dynamics and Geometry of Teichmuller Space**  
(*honoring the 60th birthday of Howard Masur*). Luminy, France. June 18-20, 2009

**RTG Workshop on Geometric Group Theory.**  
University of Michigan, Ann Arbor (invited). April 17-19, 2009

**University of Chicago: Dynamics Seminar** (invited). April 7, 2009

- IMA Workshop:** *Career Options for Women in Mathematical Sciences.*  
Minneapolis, MN. April 2-4, 2009
- AMS Sectional meeting:** *Hyperbolic geometry and Teichmuller theory.*  
Champaign, IL (invited). March 27-29, 2009
- MRC: Teichmuller Theory & Low dimensional topology.**  
Snowbird, Utah. June 14-20, 2008
- Institute for Advanced Study:** *Women and Mathematics program.*  
May 12-23, 2008

### Seminars at University of Illinois at Urbana-Champaign

- Women in Mathematics Seminar.** September 11, 2009
- Women in Mathematics Seminar.** March 20, 2009
- Group Theory Seminar.** November 20, 2008
- Women in Mathematics Seminar.** April 1, 2008

## CONFERENCES AND PROGRAMS

### 2010

January 13-16 Joint Mathematics Meetings. San Francisco, CA (scheduled).

### 2009

- August 4-7, FRG Conference: Geometry and Dynamics in Surfaces and 3-Manifolds II at Park City, UT.
- June 18-20, CIRM: School before Dynamics and Geometry of Teichmuller Space at Luminy, France.
- June 22-26, CIRM: Dynamics and Geometry of Teichmuller Space (honoring the 60th birthday of Howard Masur) at Luminy, France.
- April 17-19, RTG Workshop on Geometric Group Theory at Ann Arbor, MI.
- April 2-4, IMA Workshop: *Career Options for Women in Mathematical Sciences* at Minneapolis, MN.
- March 27-29, AMS Sectional Meeting *Hyperbolic geometry and Teichmuller theory* at UIUC.

### 2008

- June 14-20, MRC: Teichmuller Theory & Low Dimensional Topology at Snowbird Resort, UT.
- May 12-23, IAS: *Women and Mathematics program.*
- May 8-11, Ahlfors-Bers Colloquium at Newark, NJ.
- April 11-13, RTG Workshop on Dynamics of Teichmuller space at Ann Arbor, MI.
- March 13-15, Spring Topology and Dynamical Systems Conference at Milwaukee, WI.

## 2007

Fall, *Teichmuller Theory and Kleinian Groups* program at MSRI.

April 21-22, Graduate Student Topology Conference at Chicago, IL.

April 12-14, Aspects of Teichmuller Theory at Ann Arbor, MI.

## TEACHING EXPERIENCES

### University of Illinois at Urbana-Champaign

1. Laboratory: *Theory of Arithmetic*, Spring 2009.
2. Recitation Session: *Calculus III*, Fall 2008.
3. Tutor: *Partial Differential Equation*, Spring 2008 and *Elementary Linear Algebra*, Fall 2006.
4. Grading: 2006 - 2007 and Spring 2008.

### National Chiao-Tung University

Tutor: Elementary school math 2001 - 2002.

## SERVICE

Co-organizer of Job Applicant Workgroup at UIUC Mathematics Department, Fall 2009.

Department of Mathematics Teaching Assistant Award Committee, Spring 2009.

Organizer of Women in Mathematics Seminar at UIUC Mathematics Department, 2008 - 2009.

Student host of Mathematics Graduate Preview Days, March 2006 and March 2007.