

# Curriculum Vitae for Anne Thomas

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## Education

University of Chicago  
Ph.D. in Mathematics, June 2007 (Advisor: Benson Farb)  
M.S. in Mathematics, June 2004

University of New South Wales  
B.Sc. (Hons) in Pure Mathematics, July 2002 (Supervisor: Michael Cowling)  
B.A. in History, July 2002

## Employment

Cornell University  
H. C. Wang Assistant Professor  
August 2007 to present (on leave August–December 2007)

Mathematical Sciences Research Institute  
Postdoctoral Fellow in program on Geometric Group Theory  
August–December 2007

## Prizes and Fellowships

Lawrence and Josephine Graves Teaching Prize, University of Chicago, 2006  
Doolittle–Harrison Travel Fellowship, University of Chicago, 2005  
University Medal in Pure Mathematics, University of New South Wales, 2002

## Research Interests

Geometric group theory, rigidity

## Papers and preprints

*Problems on automorphism groups of nonpositively curved polyhedral complexes and their lattices*  
with Benson Farb and G. Christopher Hruska, in preparation.

*Density of commensurators for right-angled buildings*  
with Angela Kubena Barnhill, in preparation.

*Discrete cocompact subgroups of  $SL_2$  over a nonarchimedean local field*  
with Lisa Carbone, Leigh Cobbs and Inna Korchagina, in preparation.

*Existence and covolumes of lattices for Davis complexes*  
in preparation.

*Lattices in trees and higher-dimensional complexes*

with Benson Farb and Shahar Mozes, to appear in the book and wiki “Problems in Geometric Group Theory”.

*Counting overlattices for polyhedral complexes*

with Seonhee Lim, submitted.

*Covering theory for complexes of groups*

with Seonhee Lim, to appear in J. Pure Appl. Algebra.

*On the set of covolumes of lattices for Fuchsian buildings*

C. R. Acad. Sci. Paris, Sér. I 344 (2007), 215–218.

*Covolumes of uniform lattices acting on polyhedral complexes*

Bull. London Math. Soc. 39 (2007), 103–111.

*Lattices acting on right-angled buildings*

Algebr. Geom. Topol. 6 (2006), 1215–1238.

### **Seminar Talks**

State University of New York at Binghamton, February 2008

State University of New York at Buffalo, February 2008

University of Chicago, February 2008

University of California - Davis, May 2007

Northwestern University, May 2007

University of Illinois at Urbana-Champaign, April 2007

Columbia University, March 2007

University of Notre Dame, March 2007

Cornell University, February 2007

Yale University, January 2007

University of Michigan, November 2006

University of Oklahoma, November 2006

University of Sydney, August 2006

The Ohio State University, May 2006

Yale University, September 2005

Université de Bourgogne, June 2005

Université des Sciences et Technologies de Lille, June 2005

Université Paris-Sud 11, June 2005

### **Invited Conference Talks**

- AMS Special Session on Geometric Group Theory, Baton Rouge LA, March 2008
- Special Session on Geometric Group Theory, Spring Topology and Dynamics Conference, Milwaukee WI, March 2008
- MSRI workshop “Topics in Geometric Group Theory”, November 2007
- Wasatch Topology Conference, Salt Lake City UT, August 2007

- AMS Special Session on Geometric Topology, Oxford OH, March 2007
- AMS Special Session on Geometric Group Theory, New Orleans LA, January 2007
- Special semester on “Analysis and group actions on trees and buildings”, Rutgers State University - New Brunswick, March 2006

### Contributed Conference Talks

- Oberwolfach workshop “Buildings: Interactions with Algebra and Geometry”, January 2008
- Geometric and Probabilistic Methods in Group Theory, College Station TX, November 2005
- Asymptotic and Probabilistic Methods in Group Theory, Geneva, June 2005
- Kortrijk Workshop on Discrete Groups and Geometric Structures, Oostende, June 2005
- Program for Women in Mathematics: The Geometry of Groups, Institute for Advanced Study, May 2005

### Conferences

- Robert Zimmer 60th Birthday Conference, Chicago IL, September 2007
- MSRI workshop “Introduction to Geometric Group Theory”, August 2007
- MSRI workshop “Connections for Women: Geometric Group Theory”, August 2007
- AIM workshop “Problems in Geometric Group Theory”, April 2007
- Oberwolfach workshop “Topological and Geometric Methods in Group Theory”, April 2006
- Workshop on Group Actions and Rigidity, Honolulu HI, March 2006

### Teaching

- H. C. Wang Assistant Professor, Cornell University  
*Berstein Seminar: Polyhedral Complexes in Topology and Geometric Group Theory*, 2008
- Lecturer in the College, University of Chicago  
*Honors Calculus*, 2006–2007  
*Calculus*, 2005–2006  
*Mathematical Methods for Social Sciences*, 2004–2005
- Mentor for undergraduate independent study, University of Chicago, 2005–2006  
*Projects on Knot Theory, Fuchsian Groups, Non-Euclidean Geometry*
- Teaching Assistant, University of Chicago, 2003–2004  
*Honors Algebra*

- Teaching Assistant, University of New South Wales, 2000–2002  
*Linear Algebra, Calculus, Computer Science*

### **Service and Professional Affiliations**

- Member of the American Mathematical Society and the Association for Women in Mathematics
- Coordinator of AWM Student Chapter Colloquium, University of Chicago, 2006–2007
- Co-founder and committee member, AWM Student Chapter, University of Chicago, 2005–2006
- Coordinator of Farb Student Seminar, University of Chicago, 2005–2006
- Speaker at Warm-up Program for incoming graduate students, University of Chicago, 2003–2004, 2006
- Tutor, Australian National Mathematics Summer School, January 2002

### **Personal**

Birthdate: 11 January, 1980  
Citizen of Australia