

Timothy Austin: Curriculum Vitae

Personal details

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Education

- Ph.D. in mathematics, University of California, Los Angeles, June 2010.
Thesis advisor: Prof. T.Tao.
Thesis title: “Multiple recurrence and the structure of probability-preserving systems” [available online through [aps.arxiv.org/abs/1006.0491](https://arxiv.org/abs/1006.0491)].
- Certificate of Advanced Study in Mathematics (graduate course), with distinction, Trinity College, Cambridge University, 2005 – 2006.
- BA mathematics (IA [first year] 1st, IB [second year] 1st, II [third year] 1st), Trinity College, Cambridge University, 2002 – 2005.

Fellowships and grants

- Shapiro International Fellow, UCLA, 2006 – 2007;
- Huang Fellow, UCLA, 2007 – 2008;
- Microsoft Graduate Research Fellow, 2009 – 2010;
- Clay Research Fellow, 2010 – 2015.

Employment history

- Visiting researcher at Microsoft Research Redmond, July 3rd – July 31st 2006;
- Visiting researcher at Microsoft Research Redmond, August 25th – September 19th 2008;
- Research Assistant, UCLA Math. Dept., September – December 2008 (fall quarter);
- Research Assistant/Teaching Assistant (50%/50%), UCLA Math. Dept., January – March 2009 (winter quarter);
- Research Assistant/Teaching Assistant (50%/50%), UCLA Math. Dept., March – June 2009 (spring quarter);
- Visiting researcher at Microsoft Research Redmond, June 15th – July 3rd 2009;
- Research assistant, UCLA Math. Dept., July – August 2009 (summer session);
- Visiting researcher at Microsoft Research New England, August 10th – August 28th 2009;
- Research Fellow for Clay Mathematics Institute, July 1st 2010 – June 30th 2015 (expected).

Research interests

Ergodic theory, harmonic analysis and additive combinatorics; metric geometry and its applications to geometric group theory; probability theory and rigorous statistical mechanics.

Talks

Invited talks

- Ergodic Theory Seminar, Ohio State University, November 2007;
- Ergodic Theory Seminar, Hebrew University of Jerusalem, March 2008;
- Dynamics Seminar, Technion – Israel Institute of Technology, March 2008;
- Probability Seminar, Texas A&M University, April 2008;
- Lunchtime Seminar, Microsoft Research Theory Group, September 2008;
- Combinatorics Seminar, UCLA, October 2008;
- Interdisciplinary Stochastic Processes Seminar, UC Berkeley, October 2008;
- Lunchtime Seminar, Microsoft Research New England, December 2008;
- Probability and Ergodic Theory Workshop, University of North Carolina, February 2009;
- Conference on Groups and Embeddings, University of Hawai'i, March 2009;
- Concentration Week on Asymptotic Geometric Analysis, Texas A&M University, July 2009;
- Functional Analysis Seminar, UCLA, October 2009;
- Trimester Program on Rigidity, Hausdorff Institute of Mathematics, Bonn, November 2009;
- Departmental Seminar, Ohio State University, January 2010;
- Geometric Group Theory Seminar, Ohio State University, January 2010;
- Departmental Seminar, SUNY Stony Brook, January 2010;
- Departmental Colloquium, Princeton University, January 2010;
- Departmental Seminar, University of Indiana, Bloomington, January 2010;
- Dynamics Seminar, Northwestern University, January 2010;

- Departmental Seminar, UC Berkeley, January 2010;
- Departmental Seminar, MIT, February 2010;
- Geometry Seminar, University of Michigan, March 2010;
- Geometry Festival, New York University, April 2010;
- Workshop on Dynamical Systems and Related Topics, University of Maryland, April 2010;
- Groups and Large Scale Geometry, University of Clermond-Ferrand, June 2010;
- Group Actions Seminar, Brown University, September 2010;
- Oxtoby Centennial Conference, Bryn Mawr College, October 2010;
- Analysis Seminar, Brown University, November 2010;
- Dynamical Systems Seminar, Northeastern University, November 2010;
- Probability Seminar, Massachusetts Institute of Technology, November 2010.

Contributed talks

- UCLA graduate student participating analysis seminar: June 2007, November 2007, September 2008;
- Discrete Analysis Seminar, University of Cambridge, February 2008;
- Fields Institute Workshop on Harmonic Analysis and Additive Combinatorics, April 2008;
- Dynamical Systems and Randomness Conference, Institut Henri Poincaré, May 2009;
- Second Pingree Park Dynamics Workshop, Colorado State University, August 2009.

Academic awards

- Horn-Moez Prize (for excellence in first-year graduate studies) from UCLA Math. Dept., June 2007;
- Ver Heyden de Lancey Prize (for the third-year undergraduates in any subject who have most distinguished themselves in their studies) from Trinity College, Cambridge, July 2005;
- Examination Prize from Trinity College, Cambridge (separate from above), July 2005;
- G.F.A. Osborn Prize (for excellent work during the second year of an undergraduate degree) from Trinity College, Cambridge, July 2004;
- Examination Prize from Trinity College, Cambridge (separate from above), July 2004;
- Admitted to a Senior Scholarship by Trinity College, Cambridge, July 2003;
- Percy Pemberton Prize (for the first-year undergraduates in any subject who have most distinguished themselves in their studies) from Trinity College, Cambridge, July 2003;
- Examination Prize from Trinity College, Cambridge (separate from above), July 2003;
- Yeats mathematical essay prizes from Trinity College, Cambridge, November 2003 and November 2004;

Teaching activities

- Teaching assistant for Graduate Real Analysis (UCLA math 245B) for Prof. T. Tao, Winter 2009;
- Teaching assistant for Introduction to Fourier Analysis (UCLA math 133) for Prof. R. Schul, Spring 2009;
- Lectured Graduate Course ‘Topics in Ergodic Theory’ at Brown University, Fall 2010.