

CURRICULUM VITAE

ADRIAN IOANA

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Personal:

Born January 18, 1981, Targu-Jiu, Romania
Citizenship: Romanian

Current employment:

Olga Taussky-John Todd Instructor, Caltech.

Education:

Ph.D.: University of California, Los Angeles, June 2007.

Thesis title: Some rigidity results in the orbit equivalence theory of non-amenable groups.

Advisor: Sorin Popa.

Visiting student, Institute des Mathematiques de Jussieu, Paris, Fall 2004.

Assistant Researcher, Institute of Mathematics of the Romanian Academy.

B.S.: University of Bucharest, June 2003.

Research Interests:

Operator Algebras (von Neumann algebras, C*-algebras).

Orbit Equivalence Ergodic Theory.

Academic Honors:

Clay Liftoff Fellowship, Summer 2007.

Morrey Assistant Professorship at UC Berkeley (declined).

Dissertation Year Fellowship (UCLA), 2006-2007.

Horn-Moez Prize for excellence in first-year graduate studies (UCLA), 2004.

Regents' Registration Fee Grant (UCLA), 2003-2006.

Ranked first among mathematics major students, University of Bucharest, 2003.

Merit Scholarship, University of Bucharest, 2000-2003.

Silver medal, International Mathematics Olympiad, 1999.

First place, Romanian National Mathematics Olympiad (10th grade), 1997.

Invited Talks:

With title "A relative version of Connes' $\chi(M)$ invariant and existence of orbit inequivalent actions" at

AMS meeting, Special Session "Von Neumann Algebras and Noncommutative Ergodic Theory", Vanderbilt University, Nashville 10/2004.

Seminaire Algebres d'Operateurs, Institut de Mathematiques de Jussieu, Paris, 12/2004.

Functional Analysis Seminar, UCLA, 03/2005.

Functional Analysis Seminar, UCLA, 10/2005.

With title "Amalgamated free product of w -rigid factors and calculation of their symmetry groups" (joint with J. Peterson and S. Popa) at

Third Annual Spring Institute on NCGOA, Vanderbilt University, Nashville, 05/2005.

Reunion du GDR Algebres d'Operateurs, Les Houches, France, 06/2005.

6th Operator Algebras International Conference, Bucharest, Romania, 08/2005.

Main speaker, The Fourth East Coast Operator Algebras Symposium, Atlanta, 09/2006.

With title "Rigidity results for wreath product II_1 factors" at

Functional Analysis Seminar, UCLA, 05/2006.

Beyond amenability: Groups, action and Operator Algebras, UCLA, 05/2006.

21st International Conference in Operator Theory, Timisoara, Romania, 06/2006.

Operator Algebras Seminar, Purdue University, West Lafayette, 12/2006.

With title "Orbit inequivalent actions for groups containing a copy of \mathbb{F}_2 "
at

Topics on von Neumann algebras, Banff, Canada, 09/2006.

Caltech/UCLA Logic Seminar, Caltech, 10/2006.

Subfactor Seminar, Vanderbilt University, Nashville, 10/2006.

Wabash Modern Analysis Seminar, Wabash College, 12/2006.

Groupoids in operator algebras and noncommutative geometry, Institute
Henri Poincare, Paris, 03/2007.

With title "A construction of non orbit equivalent actions for \mathbb{F}_n " at

Caltech/UCLA Logic Seminar, UCLA, 10/2006.

With title "Cocycle superrigidity for profinite actions of Kazhdan groups" at

Workshop "von Neumann algebras and Ergodic Theory", UCLA, 03/2007.

Mathematical Physics Seminar, Caltech, 04/2007.

Analysis Seminar, UCLA, 05/2007.

Workshop on von Neumann Algebras, Fields Institute, Toronto, 11/2007.

Publication list:

1. A. Ioana, *A relative version of Connes' $\chi(M)$ invariant and existence of orbit inequivalent actions*, Ergod. Th. and Dynam. Sys. (2007), **27**, 1199-1213.
2. A. Ioana, *Rigidity results for wreath product II_1 factors*, Journal of Functional Analysis 252 (2007) 763-791.
3. A. Ioana, J. Peterson, S. Popa, *Amalgamated free product of w -rigid factors and calculation of their symmetry groups*, preprint math. OA/0505589, to appear in Acta Mathematica, 55 pages.
4. A. Ioana, *A construction of non orbit equivalent actions for \mathbb{F}_n* , submitted.
5. A. Ioana, *Orbit inequivalent actions for groups containing a copy of the free group*, preprint.
6. A. Ioana, *Cocycle superrigidity for profinite actions of Kazhdan groups*, preprint.

7. I. Chifan, A. Ioana, *Ergodic subequivalence relations induced by a Bernoulli action*, preprint.

8. A. Ioana, A.S. Kechris, T. Tsankov, *Subequivalence relations and positive-definite functions*, preprint.

All my papers and preprints are available at

<http://www.its.caltech.edu/~aioana/>

Teaching Experience:

Instructor, Caltech:

2007-2008: Math 140ab (Functional Analysis: Introduction to Operator Algebras)

Teaching Assistant, UCLA:

2003-2006: Math 3C, 31B, 32B, 131A and 131B.