

December 2015

AREK GOETZ

San Francisco State University

Department of Mathematics

1600 Holloway Avenue San Francisco, CA 94134, USA

EDUCATION

1996 PhD in Mathematics, University of Illinois at Chicago

- Advisor: Steven Hurder

1992 MS in Mathematics, University of Illinois at Chicago

POSITIONS

- San Francisco State University, Professor (2009–)
- San Francisco State University, Associate Professor (2003–2008)
- San Francisco State University, Assistant Professor (1999–2003)
- Boston University, Visiting Assistant Professor (1996–99)
- University of Illinois at Chicago, University Fellow, Research and Teaching Assistant (1991–96)

SHORT TERM VISITING POSITIONS

1. Institute of Pure and Applied Mathematics, Rio, Brazil, one month mini-grant , Jan 2012.
2. Banach Institute, (Warsaw, Poland, May 2008)
3. University of Exeter, (Exeter, GB, July-August 2007)
4. Instituto Nacional de Matemática Pura e Aplicada (IMPA), (Rio de Janeiro, Feb – April 2006)
5. Institut des Hautes Etudes Scientifiques (IHES), (November – January 2004/5)
6. Penn State, College Park, (October 2004)
7. University of Marseille II, Luminy, France, NSF Fellow (parts of 2004, 2005)
8. University of Exeter, Great Britain, (parts of 2002, 2003, 2004)
9. University of Marseille II, Luminy, France CNRS Scholar (Summer 2001)

SELECTED GRANTS RECEIVED, DISTINCTIONS, HONORS AND COMPETITIONS

- CSU Transforming Course Design Chancellor's Grant Fall 2007-08, (co-PI Eric Hsu)
- EPSRC British Royal Society Fellowship Visitor Grant, Fall 2007, (UK collaborator: Peter Ashwin)
- NSF International Fellowship Grant, Fall 2002-2005
- Three year NSF research grant in Geometric Analysis, Fall 2001-2005

5 MOST RELEVANT REFEREED ARTICLES

1. Piecewise isometries, uniform distribution and $2\log(2)\pi^2/8$, with Cheung and Quas, *Ergodic Theory and Dynamical Systems* 32 (2012), 1862-1888
2. Cone exchange transformations and boundedness of orbits, with Peter Ashwin, *Ergodic Theory and Dynamical Systems*, 30(05), 2010, 1311-1330 ;
3. Global properties of a family of piecewise isometries with Anthony Quas, *Ergodic Theory and Dynamical Systems*, 29, 2009, 545–568.
4. Polygonal invariant curves for a planar piecewise isometry (with Peter Ashwin), *Transactions of the American Mathematical Society*, 358 (2006), 373-390.
5. Special issue on geometric dynamics with singularities. Goetz, Van Strien, Vivaldi. *Dynamical Systems 2007*; 22(1).

5 OTHER REFEREED ARTICLES

1. Return maps in cyclotomic piecewise similarities, *Dynamical Systems an International Journal*, 20, (2), 255-265,2005.
2. Rotations by $\pi/7$ (with Guillaume Poggiaspalla) *Nonlinearity*, 2004, 17 (5), p. 1787–1802.
3. A dichotomy for a two parameter piecewise rotation (with Michael Boshernitzan) *Ergodic Theory and Dynamical Systems an International Journal*, 2003, 23, (3) p. 759– 770.
4. Piecewise Rotations in the Plane: Bifurcations, Attractors and Symmetries (with Miguel Mendes) in *Trends in Mathematics: Bifurcations, Symmetry and Patterns*, Birkhäuser Verlag, 157–165, 2003.
5. Stability of cells in non-hyperbolic piecewise affine maps and in piecewise rotations, *Nonlinearity* 14:2 2001, p. 205–219.

SYNERGISTIC ACTIVITIES

1. Delivered over **90** talks worldwide on five continents
 2. Supervised theses of 8 Master's students more than half of them were minority women.
 3. Served on 10 Doctoral thesis committees and Master Committees.
 4. Developed an online calculus course currently in use by hundreds of students worldwide.
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