

YITWAH CHEUNG

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EDUCATION

- 2000 **Ph.D. in Mathematics**, University of Illinois at Chicago
- 1997 **M.S. in Mathematics**, University of Illinois at Chicago
- 1995 **B.S. in Mathematics and Physics**, Massachusetts Institute of Technology

PROFESSIONAL EXPERIENCE

- 2015 **San Francisco State University**, Professor
- 2010 **San Francisco State University**, Associate Professor
- 2005 **San Francisco State University**, Assistant Professor
- 2000 **Northwestern University**, Boas Visiting Assistant Professor
- 1995 **University of Illinois at Chicago**, Teaching Assistant

HONORS AND AWARDS

- NSF Research Grant DMS-1600476 (Analysis), 2016-2019, \$142,303.
- NSF CAREER Award DMS-0956209 (Analysis), 2010-2016, \$400,000.
- NSF Research Grant DMS-0701281 (Analysis), 2007-2010, \$101,045.

RESEARCH INTERESTS

Ergodic theory, rational billiards, dynamics on Lie groups, Diophantine approximation

SELECTED PUBLICATIONS

1. Hausdorff dimension of the set of Singular Vectors, *Duke Math. J.*, (2016), to appear.
2. Hausdorff dimension of the set of Singular Pairs, *Ann. Math.*, **173** (2011), 127–167.
3. (with P. Hubert, H. Masur) Dichotomy for the Hausdorff dimension of the set of nonergodic directions, *Invent. Math.*, **183** (2011), 337–383.
4. Hausdorff dimension of the set of points on divergent trajectories of a homogeneous flow on a product space *Erg. Th. Dyn. Sys.*, **27** (2007), 65–85.
5. Hausdorff dimension of the set of nonergodic directions, *Ann. Math.*, **158** (2003), 661–678.