

Kenji Yoshida Kozai

CONTACT INFORMATION	University of California, Berkeley Department of Mathematics 749 Evans Hall Berkeley, CA 94720	<i>E-mail:</i> kozai@math.berkeley.edu <i>WWW:</i> math.berkeley.edu/~kozai/
RESEARCH INTERESTS	3-manifolds, character varieties, hyperbolic geometry, pseudo-Anosov maps, triangulations	
EMPLOYMENT	University of California, Berkeley , Berkeley, California USA. RTG Postdoctoral Fellow, Department of Mathematics, 2013 – present.	
EDUCATION	Stanford University , Stanford, California USA Ph.D., Mathematics, 2013. <ul style="list-style-type: none">• Advisor: Steven Kerckhoff Harvey Mudd College , Claremont, California USA B.S., Mathematics, 2008. <ul style="list-style-type: none">• High Distinction• Honors in Mathematics	
REFEREED JOURNAL PUBLICATIONS	Erica Flapan and Kenji Kozai, <i>Linking number and writhe in random linear embeddings of graphs</i> , (accepted by J. Math. Chem.). Kenji Kozai, <i>Hyperbolic structures from Sol on pseudo-Anosov mapping tori</i> , (accepted by Geom. Topol.). Jason Bustamante, Jared Federman, Joel Foisy, Kenji Kozai, Kevin Matthews, Kristen McNamara, Emily Stark, Kirsten Trickey, <i>Intrinsically linked graphs in projective space</i> , Algebr. Geom. Topol. 9 (2009), 1255-1274. doi:10.2140/agt.2009.9.1255 L. G. de Pillis, K. Renee Fister, W. Gu, Tiffany Head, Kenny Maples, Todd Neal, Anand Murugan, Kenji Kozai, <i>Optimal Control of Mixed Immunotherapy and Chemotherapy of Tumors</i> , J. Biol. Syst. 16 (2008), 51-80. J. B. Nowak, J. A. Neuman, K. Kozai, L.G. Huey, D. J. Tanner, J. S. Holloway, T. B. Ryerson, G. J. Frost, S. A. McKeen, F. C. Fehsenfeld, <i>A chemical ionization mass spectrometry technique for airborne measurements of ammonia</i> , J. Geophys. Res. 112 (2007), D10S02. doi:10.1029/2006JD007589 L. G. de Pillis, W. Gu, K. R. Fister, T. Head, K. Maples, T. Neal, A. Murugan, K. Yoshida, <i>Chemotherapy for Tumors: An Analysis of the Dynamics and a Study of Quadratic and Linear Optimal Controls</i> , Math. Biosci. 209 (2007), 292-315.	
PAPERS IN PROGRESS	Kenji Kozai, <i>Deformations of reducible $SL(n, C)$ representations for fibered 3-manifold groups</i> , (preprint).	
OTHER WORKS	Kenji Kozai and Shlomo Libeskind, <i>Circle Inversions and Applications to Euclidean Geometry</i> , online supplement to <i>Euclidean and Transformational Geometry: A Deductive Inquiry</i> , 2008.	
TEACHING EXPERIENCE	University of California, Berkeley , Berkeley, California <ul style="list-style-type: none">• Math 104: Introduction to Real Analysis, Fall 2015• Math 141: Elementary Differential Topology, Fall 2014	Aug 2013 –

- Math 185: Introduction to Complex Analysis, Fall 2014
- Math 185: Introduction to Complex Analysis, Spring 2014
- Math 104: Introduction to Real Analysis, Fall 2013

Stanford University, Stanford, California **Sep 2011 – Jun 2013**

- Teaching Assistant, Math 42: Calculus (Accelerated), Winter 2013
- Teaching Assistant, Math 51: Linear Algebra and Differential Calculus of Several Variables, Fall 2012
- Course Assistant, Math 143: Differential Geometry, Winter 2012
- Teaching Assistant, Math 51: Linear Algebra and Differential Calculus of Several Variables, Fall 2011

Harvey Mudd College, Claremont, California

Mathematics Facilitator, Academic Excellence
Grader, Department of Mathematics

Aug 2006 – May 2008

- Algebraic Topology, Fall 2007.
- Multi-variable Calculus I, Spring 2005.

OUTREACH AND
OTHER TEACHING

Stanford Pre-Collegiate Studies

Nov 2009 –

- Mathematical Logic and Problem Solving, January 2015.
- Mathematical Logic and Problem Solving, June-July 2014.
- Mathematical Logic and Problem Solving, July 2013.
- Introduction to Mathematical Logic and Problem Solving, June-July 2011.
- Mathematical Logic and Problem Solving, December 2010.
- Introduction to Mathematical Logic and Problem Solving, June-July 2010.
- Mathematical Logic and Problem Solving, November 2009.

City College of San Francisco, San Francisco, California **Sep 2011 – May 2013**

Volunteer Statistics and Mathematics Tutor, Learning Assistance Center

John O'Connell High School, San Francisco, California **Jan 2012 – May 2013**

Classroom Volunteer, Special Education Mathematics

Camp Afflerbaugh-Paige, La Verne, California

Classroom Volunteer, Workshop Facilitator

Sep – Dec 2007

Fairview High School, Boulder, Colorado

Volunteer Peer Tutor, Student Achievement Center

Jan 2001 – May 2004

SELECTED TALKS

Geometry Seminar, Purdue University, December 2015.

Topology Seminar, University of California, Santa Barbara, November 2015.

Geometry-Topology Seminar, University of California, Davis, November 2015.

Topology Seminar, Claremont Colleges, October 2015.

Special Session on Spatial Graphs, AMS Fall Western Sectional Meeting, CSU Fullerton, October 2015.

Mathematics Colloquium, California State University, Chico, October 2015.

Topology Seminar, Oklahoma State University, April 2015.

Workshop on Geometric Structures and Representation Varieties, KIAS, November 2014.

Parallel Sessions, Ahlfors-Bers Colloquium, October 2014.

REU Seminar, California State University, Chico, June 2014.

Junior Talks, GEAR Junior Retreat, May 2014.

Topology Seminar, University of California, Berkeley, October 2013.

Topology Seminar, University of Texas at Austin, January 2013.

ACHIEVEMENTS
AND AWARDS

Polya Teaching Fellow, Stanford University, 2013.

Graduate Research Fellowship, National Science Foundation, 2008–2011.

Harvey Mudd College

- Giovanni Borrelli Prize, 2007.
- Robert James Prize, 2005.
- Harvey S. Mudd Merit Scholar, 2004–2008.

Intel International Science and Engineering Fair Participant, 2004.

CITIZENSHIP

United States of America