Joan E. Licata Curriculum Vitae

Department of Mathematics, Stanford University, Building 380, Stanford, CA 94305
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Personal United States citizen

Research Interests contact geometry, Heegaard Floer theory, knot theory, three-manifolds

Employment

Stanford University
Szegö Assistant Professor of Mathematics, 2007-2011

Max Planck Institute for Mathematics
Visiting Scientist, 2008-2009
Bonn, Germany

Education

Yale University, 2001-2007
Ph.D., Mathematics
Thesis advisors: Andrew Casson, Peter Ozsváth
Heegaard Floer link homology, the Thurston norm, and minimal-complexity surfaces

Columbia University, fall 2006
Exchange Scholar

Brown University, 1997-2001
Sc.B. Magna Cum Laude, Mathematics

Budapest Semesters in Mathematics, spring 2000

Refereed Papers

Legendrian grid number one knots and augmentations of their differential algebras
accepted for publication in the Proceedings of the Heidelberg Knot Theory Semester

Invariants for Legendrian knots in lens spaces
accepted for publication in Communications in Contemporary Mathematics

Constructing Seifert surfaces for n-bridge link projections
accepted for publication in the Journal of Knot Theory and Its Ramifications

The Thurston polytope for four-stranded pretzel links
Algebraic & Geometric Topology 8 (2008) 211-243

Distinctions

Hoagland Award for Innovation in Teaching
Stanford University, 2008

David Howell Premium for Excellence in Mathematics
Brown University Department of Mathematics, 2001

Phi Beta Kappa

Talks

Symplectic Geometry Seminar, Stanford University, 2010

Connections for Women: Homology Theories of Knots and Links, MSRI 2010

Wasatch Topology Conference, Park City, 2009

Philadelphia Area Topology (Contact/Hyperbolic) Seminar, Temple University, 2009

Bi-College Colloquium, Haverford College, 2009

Gauge Theory Seminar, Columbia University, 2009

Advanced School and Conference on Knot Theory and Its Applications to Physics and Biology, Trieste, Italy, 2009

Istanbul Contact Topology Workshop, Istanbul, Turkey, 2009

The Mathematics of Knots: Theory and Application Heidelberg, 2008

Topics in Topology Seminar, Max Planck Institute for Mathematics, 2008

Symplectic Geometry Seminar, University of Toronto, 2008

Topology Seminar, University of California at Berkeley, 2008

Geometry/Topology Seminar, University of California at Davis, 2008

Colloquium, Kansas State University, 2007

Topology Seminar, Stanford University, 2007, 2009

Georgia Topology Conference, Athens, Georgia, 2007

Topology Seminar, Princeton University, 2007

Geometry-Topology Seminar, University of Pennsylvania, 2007

Topology Seminar, University of Texas at Austin, 2006

Topology Seminar, Yale University, 2006

Geometric Topology Seminar, Columbia University, 2006

Teaching

Instructor, Stanford University
Applied Group Theory (Math 109), winter 2010
Linear Algebra and Matrix Theory (Math 113), winter 2010
Linear Algebra and Calculus of Several Variables (Math 51), fall 2007 & 2009
Fundamental Concepts of Analysis (Math 171), spring 2008
Complex Analysis (Math 113), winter 2008
Linear Algebra and Calculus of Several Variables (Math 51), fall 2007 & 2009

Institute for Advanced Study Women and Mathematics Program
Teaching assistant for graduate course, Foliations and Laminations, 2008

Instructor, Yale University
Multivariable Calculus (Math 120), fall 2005, spring 2007
Differential Calculus (Math 112), fall 2004
Integral Calculus (Math 115), fall 2003

Park City Mathematics Institute Graduate Summer School
Teaching assistant for graduate course, Dehn Surgery and 3-manifolds, 2006

Graduate Teaching Center staff member, Yale University
Led workshop series "Fundamentals of Teaching Quantitative Reasoning"
Taught workshop for graduate students and posdocs teaching undergraduate science courses: "Teaching Problem Solving"
Co-organizer of Spring Teaching Forum at Yale, 2006

Yale College Math and Science Tutor
Tutored undergraduates in all mathematics classes and related courses in other disciplines
Led academic orientation sessions for incoming minority students

Teaching Assistant, Yale University
Linear Algebra, spring 2003