Jeff Hicks

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Appointments and Education

University of Cambridge Department of Mathematics Research Assistant Sponsor: Mark Gross	Fall 2019 - Present
University of California, Berkeley (PhD) Department of Mathematics Advisor: Denis Auroux Thesis: Tropical Lagrangians and Homological Mirror Symmetry	Fall 2013-Spring 2019
University of California, Los Angeles (BSc, MA) Department of Mathematics	Fall 2009-Spring 2013
Research	
Wall-Crossing Transformations from Lagrangian Cobordisms	In Preparation
Tropical Lagrangians and Homological Mirror Symmetry Preprint available at arXiv:1904.06005	April 2019
Research Talks	
Fields Institute, New Structures in Alg. Geo. and Their Symp. Interpretations Tropical Lagrangian Tori in $\mathbb{C}P^2 \setminus E$	August 2019
Université du Québec à Montréal, Current Trends in Symplectic Geometry Tropical Lagrangians in Mirror Symmetry	July 2019
Université du Québec à Montréal, <i>Séminaire Symplectique</i> Wall Crossing and Lagrangian Cobordisms	March 2019
Stanford University, Symplectic Geometry Seminar Floer-Theoretic Support of Tropical Lagrangians	February 2019
Università Statale degli Studi di Milano, <i>Seminario Di Natale</i> Tropical Lagrangian Submanifolds from Lagrangian Cobordisms	December 2018
Cambridge University, <i>Differential Geometry and Topology Seminar</i> Tropical Lagrangians and Mirror Symmetry	November 2018
Edinburgh University, <i>EDGE Seminar</i> Dimers and Tropical Lagrangians	November 2018
Uppsala University, <i>Geometry and Topology Seminar</i> Tropical Lagrangians and Mutations	October 2018

October 2018

ETH Zurich, Symplectic Geometry Seminar Tropical Lagrangians from Lagrangian Cobordisms

Columbia University, Symplectic, Gauge Theory, and Categorification Seminar Tropical Lagrangians and Mirror Symmetry	September 2018
MSRI, EGN Symplectic Geometry and Mirror Symmetry Seminar Tropical Lagrangians and Mirror Symmetry	May 2018
Seminars	
UC Berkeley, Student Symplectic Geometry Seminar Co-Organizer	Fall 2016
UC Berkeley, Student SFT Seminar Co-Organizer	Fall 2016
UC Berkeley, First Year Graduate Student Seminar Co-Organizer	Fall 2013
Expository Talks	
UC Berkeley, Seminar on Mirror Symmetry Continuation Maps in Family Floer Theory Rigid Analytic Geometry: Affinoid Domains Family Floer Theory after Abouzaid: Twisting Cocycles and Gerbes	October 2017
UC Berkeley, Student Symplectic Seminar Classical Mirror Symmetry	September 2016
UC Berkeley, <i>GRASP</i> Graph Cohomology and Perturbative Methods	September 2016
UC Berkeley, Student Symplectic Seminar Toric Calabi-Yau Manifolds	February 2017
UC Berkeley, Student Symplectic Field Theory Seminar SFT Compactness and Vianna Tori	November 2016
UC Berkeley, Seminar on Mirror Symmetry Stability Structures for Categories Sheaf Approaches to the Fukaya Category	May 2016
UC Berkeley, Student Differential Geometry Seminar Knot Contact Homology A-Polynomial and Augmentations	March 2016
UC Berkeley, Seminar on Mirror Symmetry Open-Closed Maps and Abouzaid's Generation Criterion	December 2015
UC Berkeley, Seminar on Mirror Symmetry Hochschild Cohomology and Classification of A_{∞} Structures	November 2015
UC Berkeley, Symplectic Geometry Seminar Moduli Space in Hamiltonian Floer Theory	February 2015
UC Berkeley, Symplectic/Quantum Seminar Donaldson's Divisor Theorem	December 2014
UC Berkeley, ECH + Polyfolds Seminar Cobordism Map in Embedded Contact Homology	October 2014
UC Berkeley, First Year Graduate Student Seminar Categorification via Connected Components	February 2014
UC Berkeley, First Year Graduate Student Seminar Morse Homology	December 2013
UCLA, <i>Topology Seminar</i> Module and Filtered Khovanov Homology	Fall 2012

Conferences Attended

Fields Institute, New Structures in Alg. Geo. and Their Symp. Interpretations	August 2019
Université du Québec à Montréal, Current Trends in Symplectic Geometry	July 2019
UC Berkeley, Mirror Symmetry and Enumerative Geometry	March 2018
MSRI, Structures in Enumerative Geometry	March 2018
University of Miami, Mirror Symmetry and Related Topics	January 2018
MSRI, Introductory Workshop: Enumerative Geometry Beyond Numbers	January 2018
Simons Foundation, Simons Collaboration on HMS Annual Meeting	November 2017
UC Berkeley, Polyfold Theory Towards the Fukaya Category	June 2017
Harvard University, Mini-Workshop on SYZ	December 2016
Simons Foundation, Simons Collaboration on HMS Annual Meeting	November 2016
University of Miami, Workshop on Homological Mirror Symmetry	January 2017
Institute for Advanced Study, Homological Mirror Symmetry	November 2016
IMJ-PRG Paris, Symplectic Topology, Sheaves and Mirror Symmetry	June 2016
UC Berkeley, Mirror Symmetry and Wall-Crossing	March 2016
University of Miami, Mirror Symmetry, Hodge Theory and Related Topics	January 2016
U. Penn, Inaugural Conference for Simons Collaboration on HMS	November 2015
University of Miami, Homological Mirror Symmetry Conference	January 2015

Teaching and Mentoring

Course Instructor

UC Berkeley, Math 32: Precalculus	Spring 2019
UC Berkeley, Math 191: Introduction to Research with Combinatorial Topology Teaching Effectiveness: 6.5/7 Course Effectiveness: 6.75/7	Spring 2017
UC Berkeley, Math 191: Introduction to Research with Combinatorial Topology	Spring 2015
Graduate Student Instructor	
UC Berkeley, Math 53: Multivariable Calculus Teaching Effectiveness: 6.3/7	Fall 2017
UC Berkeley, Math 53: Multivariable Calculus Teaching Effectiveness: 5.9/7	Spring 2016

Fall 2014

UC Berkeley, Math 53: Multivariable Calculus

UC Berkeley, Math 1B: Single Variable Calculus II

Other Teaching and Mentoring

Prison University Project at San Quentin State Priso	on, Course Instructor	Fall 2017
Co-taught Intermediate Algebra.		

Administration and Service

Program Administration

Canada-USA Mathcamp, Academic Coordinator	Summer 2018
Designed academic program, invited speakers and mentored graduate students. Along with Apurva Nakade and Yuval Widgerson.	
Berkeley Mathematics Directed Reading Program, Co-Founder and Organizer	2014 -2017
Coordinated admissions and presentations, as well as securing program funding to gift textbooks to undergraduates.	
Splash at UCLA, Co-Founder and President	2010-2012
Worked with LearningU development tools to create an opportunity for undergraduates to teach courses to high school students.	
Service	
Graduate Student Assembly, Math Department Representative	2017-2018
Introduced resolution to secure funding for Berkeley Connect, a program providing graduate fellowships for undergraduate mentorship.	
UC Berkeley, Advising Council	2017-2018
Graduate Student Representative	
Conferences Attended	
MIT, Directed Reading Program Workshop 2018	May 2018
Discussion Group Leader	
Awards and Honors	
Outstanding Graduate Student Instructor Award	2017

Outstanding Graduate Student Instructor Award	2017
Daus Memorial Award	2013
NSF GSRFP Honorable Mention	2013
Departmental Scholar in Mathematics	2012
Highest Honors at Budapest Semesters in Mathematics	2011
Knapp Scholarship	2011
Les and Betty Knesel Scholarship	2010
Regent's Scholar at UCLA	2009