

James Conway (he/him/his)

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Appointments

Lecturer	2019-2021
RTG Postdoc	2016-2019
University of California, Berkeley	

Education

PhD in Mathematics	2010-2016
Georgia Institute of Technology	
Minor in Computer Science	
Master of Mathematics	2009-2010
University of Cambridge, Graduated with Distinction	
BA in Mathematics	2006-2009
University of Cambridge, Graduated with a First	
Diploma in Modern Languages (Dutch)	2007-2008
University of Cambridge	

Awards

Finalist for CETL/BP Outstanding TA Award , Georgia Institute of Technology	2014
Presidential Scholar , Georgia Institute of Technology	2010-2014

Teaching

Instructor of Record , UC Berkeley	2016-2021
The Classical Geometries (Fall 2016 & 2017, Spring 2019 & 2020), Introduction to Analysis (Spring 2017), Introduction to Algebra (Fall 2019, Summer 2020 & 2021), Honors Algebra (Spring 2020), Elementary Algebraic Topology (Spring 2018), Graduate Algebraic Topology I (Fall 2018)	
Instructor of Record , Georgia Institute of Technology	2012-2016
Calculus 1 (Spring 2013), Calculus 3 (Summer 2012), Linear/Discrete Math (Fall 2013), OMED Challenge Calculus 1 and 2 (Summer 2014), Linear Algebra (Spring 2016), Differential Equations (Summer 2016)	
Teaching Assistant , Georgia Institute of Technology	2010-2015
Calculus 1 (Fall 2010), Calculus 2 (Spring 2011), Calculus 3 (Fall 2011), Linear/Discrete Mathematics (Spring 2012), Algebraic Topology (Fall 2012), Differential Equations (Fall 2013), CETL (Fall 2012), Calculus 3 for CS (Spring 2015), Algebra 1 (Fall 2015), Math Methods of Applied Science 1 (Fall 2015)	
Junior Staff , Hampshire College Summer Studies in Mathematics	Summer 2009
In a summer mathematics program for high school students, I taught group theory, graph theory and number theory and designed and taught a 1.5 week course on cardinals and ordinals	

Publications

- Classification of Tight Contact Structures on Surgeries on the Figure-Eight Knot** arXiv:1901.06066
with Hyunki Min, *Geometry & Topology*, Vol. 24 (2020), Issue 3, 1457–1517
- Contact surgery and symplectic caps** arXiv:1811.00387
with John Etnyre, *Bulletin of the LMS*, Vol. 52 (2020), Issue 2, 379–394
- Mazur-type manifolds with L -space boundary** arXiv:1807.08880
with Bülent Tosun, *MRL*, Vol. 27 (2020), No. 1, 35–42
- Symplectic fillings, contact surgeries, and Lagrangian disks** arXiv:1712.07287
with John Etnyre and Bülent Tosun, *IMRN*, rny291, Feb 2019
- Tight Contact Structures via Admissible Transverse Surgery** arXiv:1508.00525
Journal of Knot Theory and its Ramifications, 28 (2019), no. 4, 1950032
- Contact Surgeries on the Legendrian Figure-Eight Knot** arXiv:1610.03943
Journal of Symplectic Geometry 17 (2019), no. 4, 1061–1078
- Overtwisted Positive Contact Surgeries** arXiv:1409.7077
(= section 6 of linked arXiv article), *Topology and its Applications* 261 (2019), 51–62
- Transverse Surgery on Knots in Contact 3-Manifolds** arXiv:1409.7077
Transactions of the AMS, 372 (2019), 1671–1707 (= sections 1-5 of linked arXiv article)
- Planar Contact Manifolds with Vanishing Heegaard Floer Contact Invariants** arXiv:1409.4055
with Amey Kaloti and Dheeraj Kulkarni, *Topology and its Applications* 212 (2016), 19–28

Invited Talks

- Joint LA Topology Seminar April 2019
- Columbia University, topology seminar November 2018
- Binghamton University, topology seminar May 2018
- University of Alabama, topology seminar April 2018
- Northwestern University, topology seminar February 2018
- Caltech, topology seminar May 2017
- UC Davis, topology seminar April 2017
- UC Berkeley, topology seminar February 2017
- Rice University, topology seminar November 2016
- AMS Sectional Meeting, UGA March 2016
- AMS Sectional Meeting, University of Nevada April 2015
- University of Virginia, topology seminar March 2015
- Georgia Tech Topology Conference December 2014
- Louisiana State University, topology seminar October 2014
- University of Georgia, topology seminar September 2014

Activities

Mathematics and Service

Referee for AGT, conference proceedings	
Academic Community Committee (committee member), UC Berkeley	2018-2019
Berkeley Topology Seminar (co-organiser), UC Berkeley	2017-2019
Open Book Decompositions Reading Group (organiser/instructor), UC Berkeley	2017
Contact Geometry Reading Group (organiser/instructor), Georgia Institute of Technology	2016
Graduate Student Chapter of AMS (treasurer), Georgia Institute of Technology	2014-2015
Geometry/Topology Seminars (organiser), Georgia Institute of Technology	2013
Contact Geometry Seminar (organiser), Georgia Institute of Technology	2012

Other Activities

Safrut (certified as of 2021)	ongoing
Yiddish-to-English translation and Yiddish/Hebrew book typesetting	2020-ongoing
Technical and Design Support for the Comprehensive English–Yiddish Dictionary	2011-ongoing
Georgia Tech Symphony Orchestra (viola), Georgia Institute of Technology	2010-2013
Cambridge Graduate Orchestra (viola), University of Cambridge	2009-2010
Orchestra on the Hill (viola, conductor), University of Cambridge	2006-2010
President	2009-2010
Strings Manager	2007-2009

Computer Skills

MS Office, Google Docs/Sheets, Python, HTML, Mathematica, LaTeX

Languages

English, Yiddish, Hebrew