

James Conway (he/him/his)

E-mail: james@jiconway.com; jiconway@umd.edu

Website: www.jiconway.com

Appointments

Lecturer University of Maryland, College Park	2022-current
Lecturer RTG Postdoc University of California, Berkeley	2019-2021 2016-2019

Education

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

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 , UMD College Park Math 120 (Fall 2022, Summer 2023), Math 141 (Spring/Fall 2023, Summer 2024), Math 141H (Spring 2023), Math 240 (Fall 2023, Spring 2025), Math 241 (Spring/Fall 2024), Math 246 (Fall 2024), Math 310 (Spring/Summer 2023, Summer 2024), Math 341 (Spring 2024), Math 402 (Fall 2024), Math 403 (Spring 2024), Math 410 (Fall 2022), Math 430 (Fall 2023, Fall 2024, Spring 2025), Stat 400 (Fall 2022)	2022-current
Long Term Substitute Teacher at Berman Hebrew Academy Instructor for two 9th-grade geometry classes for one quarter, 15 students each class. I taught, gave homework, wrote and graded quizzes/tests, assigned quarter grades, and wrote report cards.	2021-2022
Instructor of Record , UC Berkeley 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	2016-2021

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

Jewish Scribal Arts (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