# James Conway (he/him/his)

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

## Appointments

**Lecturer**                                                                 2022-current
University of Maryland, College Park

**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**, UMD College Park                                   2022-current
Elementary Calculus (Fall 2022), Advanced Calculus I (Fall 2022), Applied Probability
and Statistics I (Fall 2022)

**Long Term Substitute Teacher** at Berman Hebrew Academy                    2021-2022

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.

**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*

| | |
|---|---|
| **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

Last updated: July 30, 2022