

# Phillip James Jedlovec

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## Research Interests:

- Algebraic topology. Homotopy theory. Philosophy of Math.

## Degrees:

- Ph.D., Mathematics, University of Notre Dame. 2018  
Advisor: Mark Behrens  
Thesis: *Hopf rings and the Ando-Hopkins-Strickland Theorem*
- M.S., Mathematics, University of Notre Dame 2015  
Advisor: Mark Behrens
- B.A., Mathematics, Economics, Vanderbilt University 2013  
Computer Science minor, cum laude, Highest Honors in  
Mathematics, Honors in the College of Arts and Science

## Employment and Research Experience:

- Santa Clara University September 2018-present  
*Mathematics Lecturer*
- UCLA Institute for Pure and Applied Mathematics June-August 2013  
*RIPS (Research in Industrial Projects for Students)*  
*Program Participant*  
Error-correcting codes and quantum communication
- LSU Department of Mathematics REU June-July 2012  
Whitney-Tutte polynomials of ribbon graph  $n$ -cables
- Vanderbilt Department of Mathematics April-May 2012  
*Research Assistant for Profs. Saff and Hardin*  
Energy minimization problems on the sphere
- Vanderbilt Department of Athletics September-December 2011  
*Tutor, Mathematics and Economics*

## Teaching Experience:

- Instructor for Math 6, Finite Math for Social Science Spring 2019  
Santa Clara University
- Instructor for Math 30, Calculus for Business I Winter 2019  
Santa Clara University
- Instructor for Math 12, Calculus and Analytic Geometry II Winter 2019  
Santa Clara University
- Instructor for Math 11, Calculus and Analytic Geometry I Fall 2018  
Santa Clara University
- Instructor for Math 12, Calculus and Analytic Geometry II Fall 2018  
Santa Clara University

- Teaching assistant for Math 22860, Honors Calculus IV      Spring 2018  
University of Notre Dame
- Instructor for Math 10560, Calculus II (flipped classroom)      Spring 2017  
University of Notre Dame
- Instructor for Math 10110, Principles of Finite Math      Spring 2016  
University of Notre Dame
- Instructor for Math 10240, Principles of Calculus (flipped classroom)  
University of Notre Dame      Fall 2015
- Mathematics Teaching Seminar Participant      Spring 2015  
University of Notre Dame
- Teaching assistant for Math 10360, Calculus B      Spring 2015  
University of Notre Dame
- Teaching assistant for Math 10350, Calculus A      Fall 2014  
University of Notre Dame

### Conferences Attended:

- Mathematical Association of America Sectional Meeting      February 2019  
at the American Institute of Mathematics
- 2019 Austin J. Fagothey, SJ Philosophy Conference      February 2019  
at Santa Clara University
- Active Learning Workshop, Santa Clara University      August 2018
- Civitas Dei Seminar, Washington D.C.      July 2018
- AMS-MAA Joint Mathematics Meetings, San Diego, CA      January 2018
- Midwest Topology Seminar at Wayne State University      November 2017
- Homotopy Theory: tools and applications      July 2017  
at University of Illinois, Urbana-Champaign
- Lehigh University Geometry and Topology Conference      May 2016
- Equivariant and Motivic Homotopy Theory Conference      May 2015  
at Reed College
- Lehigh University Geometry and Topology Conference      May 2015
- Graduate Student Geometry and Topology Conference      March 2015  
at University of Illinois, Urbana-Champaign
- Midwest Topology Seminar at University of Illinois, Chicago      February 2015
- Midwest Topology Seminar at Northwestern University      October 2014
- Binghamton University Graduate Conference      October 2014  
in Algebra and Topology
- AMS-MAA Joint Mathematics Meetings, Baltimore, MD      January 2014
- Shenandoah Undergraduate Mathematics and      September 2012  
Statistics (SUMS) Conference at James Madison University

### Talks Given:

- *The generalized homology of  $BU<2k>$*       March 2018  
AMS Sectional Meeting at Ohio State University
- *The generalized homology of  $BU<2k>$*       March 2018  
University of Illinois, Urbana-Champaign Topology Seminar
- *The generalized homology of  $BU<2k>$*       November 2017  
The Ohio State University Homotopy Theory Seminar
- *If you like it, then you should put a Hopf ring on it*      September 2017

- Notre Dame Mathematics Graduate Student Seminar
- *Teaching in a Flipped Classroom* April 2017
- Notre Dame Mathematics Teaching Seminar
- *Non-Cooperative Games* October 2016
- Notre Dame Mathematics Graduate Student Seminar
- *Tangent Bundles* August 2016
- Notre Dame First-Year Math Bridge Program
- *"Basic Geometry and Topology" Introductory Talk* August 2015
- Notre Dame First-Year Math Graduate Student Orientation
- *The Implicit and Inverse Function Theorems* August 2015
- Notre Dame First-Year Math Bridge Program
- *Arrow's Impossibility Theorem* December 2014
- Notre Dame Mathematics Graduate Student Seminar
- *Whitney-Tutte Polynomials of Ribbon Graph  $N$ -cables* September 2012
- SUMS Conference at James Madison University

### **Fellowships and Honors:**

- Kaneb Center Outstanding Graduate Student Teacher Award 2017
- Arthur J. Schmitt Presidential Fellowship 2013 – 2018
- Dean's List, Vanderbilt College of Arts and Science  
(Fall 2009, Spring 2010, Fall 2010, Spring 2011, Fall 2011, Fall 2012, Spring 2013)
- NASA College Scholarship Fund, Inc. Scholarship 2009-2013
- Cornelius Vanderbilt Scholar 2009-2013
- National Merit Finalist 2009
- AP Scholar with Honors 2009

### **Mathematics Service:**

- Departmental Membership Administrator September 2018-present  
for the Mathematical Association of America
- Organizer for the Valparaiso REU visit to Notre Dame July 2017
- Organizer for the Graduate Student Seminar April 2015-April 2017
- Treasurer, Mathematics Graduate Student Association  
April 2015-April 2017
- Organizer for the Valparaiso REU visit to Notre Dame July 2015
- Tutor at the Robinson Community Center Fall 2014-Spring 2015

### **Non-Mathematics Service:**

- Notre Dame RCIA Team Member August 2016-May 2017
- Rector, "How to Be a Saint in Graduate School" retreat June 2016
- President, Notre Dame Catholic Graduate Community  
May 2015-May 2016
- Vice President of Service, Notre Dame Catholic Graduate Community  
May 2014-May 2015
- Bible Study Leader, Fellowship of Catholic University Students  
Fall 2010-Spring 2013
- President, Vanderbilt Catholic Community 2012

### **Memberships:**

- Society of Catholic Scientists 2018-present
- Mathematical Association of America 2018-present
- Phi Beta Kappa Honor Society 2013-present
- American Mathematical Society (AMS) 2014-2018
- Mathematics Graduate Student Association (Notre Dame) 2013-2018
- Society of Schmitt Fellows (Notre Dame) 2013-2018
- Society of Schmitt Fellows Social Committee 2013-2014

**References:**

- References available upon request.