**Phillip James Jedlovec**

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Department of Mathematics and Computer Science

500 El Camino Real

Santa Clara, CA 95053

**Research Interests:**

* Algebraic topology. Philosophy of Math. Social Choice Theory. Decision Theory. Pedagogical Theory.

**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 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 (at Santa Clara):**

* Math 4, The Nature of Mathematics (Spring 2022, Spring 2021)
* Math 6, Finite Math for Social Science (Spring 2022, Spring 2020, Spring 2019)
* Math 9, Precalculus (Winter 2022, Fall 2021)
* Math 9L, Precalculus Lab (Fall 2021, Fall 2020)
* Math 11, Calculus and Analytic Geometry I (Winter 2022, Winter 2021, Fall 2020, Summer 2020, Fall 2019, Fall 2018)
* Math 11L, Calculus Lab (Winter 2020, Fall 2019)
* Math 12, Calculus and Analytic Geometry II (Winter 2019, Fall 2018)
* Math 14, Calculus and Analytic Geometry IV (Spring 2021)
* Math 30, Calculus for Business I (Winter 2021, Winter 2020, Fall 2019, Winter 2019)

**Teaching Experience (at Notre Dame)**

Instructor for:

* Math 10560, Calculus II (Spring 2017)
* Math 10110, Principles of Finite Math (Spring 2016)
* Math 10240, Principles of Calculus (Fall 2015)

Teaching Assistant for:

* Math 22860, Honors Calculus IV (Spring 2018)
* Math 10360, Calculus B (Spring 2015)
* Math 10350, Calculus A (Fall 2014)

**Conferences Attended:**

* The Character of AI – A Technology Ethics Conference July 2022

Santa Clara University

* Mathematical Association of America Sectional Meeting February 2022

at Cal State Maritime University

* Dia-Logos and Circling Method Workshop (virtual) February 2022
* Active Learning Workshops, Santa Clara University August 2021
* Mathematical Association of America Sectional Meeting (virtual) February 2021
* Active Learning Workshops, Santa Clara University August 2020
* Mathematical Association of America Sectional Meeting February 2020

at Mills College

* Active Learning Workshops, Santa Clara University September 2019
* Teaching with Video Workshop, Santa Clara University July 2019
* Society of Catholic Scientists Annual Conference June 2019

at the University of Notre Dame

* 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 in Algebra and Topology October 2014
* AMS-MAA Joint Mathematics Meetings, Baltimore, MD January 2014
* Shenandoah Undergraduate Mathematics and September 2012

Statistics (SUMS) Conference at James Madison University

**Talks Given:**

* *Arrow’s Impossibility Theorem* January 2021 Guest Lecture for “Introduction to Mathematical History

and Writing” class at the University of Notre Dame

* *Attentive Learning: Finding the Virtuous Mean between* August 2020

*Active and Passive Pedagogies in a Mathematics Classroom*

Active Learning Seminar, Santa Clara University

* *The Dependence Problem and Divine Aseity* April 2019

Guest Lecture for Philosophy of Religion class at SCU

* *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)

**Service (at Santa Clara)**

* Math 9L Grading Committee June 2020
* LEAD Scholars Program – Fellowship Essay Scoring January 2020
* Departmental Membership Administrator September 2018-present

for the Mathematical Association of America

**Service (at Notre Dame)**

* 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

**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.