

Joseph Timmer

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Research Interests

- Non-commutative Algebra, in particular Hopf Algebras
- Representation Theory
- Theory of Finite Groups

Employment

- **University of Colorado, Boulder** *Instructor*
Aug. 2016 - Present
- **University of Colorado, Boulder** *Lecturer*
Aug. 2015 - Aug. 2016
- **Louisiana State University** *Research Associate*
Aug. 2014 - May 2015
- **University of Southern California** *Research Assistant*
Jan. 2014 - July 2014
- **University of Southern California** *Teaching Assistant*
Aug. 2008 - Jan. 2014
- **Michigan State University** *Teaching Assistant*
Aug. 2005 - Aug. 2008

Education

- **University of Southern California** *PhD Pure Mathematics*
– Advisor: *Susan Montgomery* 2014
– Title: *Indicators of Bismash Products from Exact Symmetric Group Factorizations*
- **Michigan State University** *MSc Mathematics*
2007
- **Michigan State University** *BSc Mathematics*
2004

Honors & Awards

- **ASSETT Faculty Fellow** *University of Colorado, Boulder*
Creation of a Faculty Learning Community Spring 2019-Present
- **Graduate Teaching Prize** *University of Southern California*
Dennis Ray Estes Prize Spring 2014
- **Outstanding Teaching Assistant** *Michigan State University*
For work in the ESP program Spring 2008

Invited Lectures

- **AMS Special Session on Hopf Algebras and Tensor Categories** *Atlanta, GA*
Automorphisms of Bismash Products January, 2017
- **Hopf Algebras and Actions** *University of Washington*
Automorphisms of Bismash Products April, 2016

- **Ring Theory Seminar** *University of Colorado, Colorado Springs*
Hopf Algebras and Groups Oct. 2015
- **Algebraic Lie Theory Seminar** *University of Colorado, Boulder*
Group Factorizations and Hopf Algebras Sept. 2015
- **AMS Spring Sectional Meeting: Groups and Representations** *Michigan State University*
Bismash Products and Exact Factorizations of S_n March 2015
- **AMS Special Session on Hopf Algebras and Tensor Categories** *San Antonio, TX*
Bismash Products and Exact Factorizations of S_n January, 2015
- **Hopf Algebras and Actions** *University of Washington*
Bismash Products and Exact Factorizations of S_n Nov., 2014
- **Algebra Seminar** *Louisiana State University*
Bismash Products and Exact Factorizations of S_n Sept., 2014
- **Hopf Working Seminar** *University of Southern California*
Group Theoretical Categories Oct., 2013

Math Education Conferences

- **Inquiry Based Learning Workshop** *University of Colorado at Boulder*
August 2016
- **Inquiry Based Learning Workshop** *Cal. Poly. State Univ.*
June 2016

General Math Talks

- **CU Math Club** *University of Colorado*
Incongruities of Infinity January, 2018

Teaching Experience

- **As Course Coordinator**
 - Calculus II (MATH 2300) *University of Colorado, Boulder*
Spring 2019 - Fall 2019
 - Data and Models (MATH 1212) *University of Colorado, Boulder*
Fall 2018, Spring 2020
 - Calculus III (MATH 2400) *University of Colorado, Boulder*
Summer 2017, Summer 2018
 - Introduction to Statistics (MATH 2510) *University of Colorado, Boulder*
Spring 2016-Spring 2018
- **As the Instructor**
 - Introduction to Probability (MATH 4510/5510) *University of Colorado, Boulder*
Spring 2018-Spring 2020
 - Data and Models (MATH 1212) *University of Colorado, Boulder*
Spring 2018, Fall 2018
 - Calculus I (MATH 1300) *University of Colorado, Boulder*
Fall 2017
 - Differential Equations (MATH 3430) *University of Colorado, Boulder*
Fall 2017
 - Calculus III (MATH 2400) *University of Colorado, Boulder*
Summer 2017, Summer 2018

- Calculus II (MATH 2300)
Summer 2016, Spring 2017, Spring 2019, Fall 2019 *University of Colorado, Boulder*
- Math Analysis in Business (MATH 1112)
Spring 2016, Fall 2016, Spring 2020 *University of Colorado, Boulder*
- Introduction to Statistics (MATH 2510)
Fall 2015 - Spring 2018 *University of Colorado, Boulder*
- Calculus for Social Science (MATH 1080)
Fall 2015 *University of Colorado, Boulder*
- Quantitative Reasoning (MATH 1012)
Fall 2015 *University of Colorado, Boulder*
- Calculus II
Spring 2015 *Louisiana State University*
- Honors Calculus I
Fall 2014 *Louisiana State University*
- Differential Equations
Summer 2006, 2008 *Michigan State University*
- Survey of Calculus I
Summer 2007 *Michigan State University*
- College Algebra
Fall 2005, Spring 2006 *Michigan State University*

Computer Programming

- Working Knowledge of Computer Algebra Systems
 - GAP
www.gap-system.org
 - Magma
magma.maths.usyd.edu.au/

Service

- As A Committee Member
 - Teaching Quality Framework
Fall 2018 - Present *Department of Mathematics Committee*
 - MATH 1212 Textbook Selection
Spring 2018 *Department of Mathematics Committee*
 - Math Placement Exam
Spring 2018 *Department of Mathematics Committee*
 - Diversity Committee
Fall 2016 - Present *Department of Mathematics Committee*
 - Learning Assistant Hiring
Spring 2016 - Present *Department of Mathematics Committee*
- As A Contributing Faculty Member
 - MATH 1212 Course Overhaul
Spring 2018 *Sole Contributor*
 - Curriculum Development for MATH 2400
Spring 2017 *with Faan Tone Liu and Lee Roberson*
 - IBL Methods of MATH 3430
Fall 2017 *Sole Contributor*

Preprints and Publications

- Indicators of Bismash Products from Exact Symmetric Group Factorizations
Communications in Algebra, Vol. 45 Issue 10, 4444-4465