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

Associate Teaching Professor
Aug. 2022 - Present

• University of Colorado, Boulder

Instructor
Aug. 2016 - Aug. 2022

• University of Colorado, Boulder

 $\begin{array}{c} Lecturer \\ {\rm Aug.~2015 - Aug.~2016} \end{array}$

• 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

- Advisor: Susan Montgomery

PhD Pure Mathematics

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
Facilitating the Quality Teaching Initiative

University of Colorado, Boulder Spring 2021-Spring 2022

• ASSETT Faculty Fellow Creation of a Faculty Learning Community University of Colorado, Boulder Spring 2019-Spring 2020

• Graduate Teaching Prize
Dennis Ray Estes Prize

University of Southern California Spring 2014

• Outstanding Teaching Assistant For work in the ESP program Michigan State University 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 $University\ of\ Colorado,\ Boulder$ • Algebraic Lie Theory Seminar 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 Colorao at Boulder August 2016 • Inquiry Based Learning Workshop Cal. Poly. State Univ. June 2016 General Math Talks • CU Math Club University of Colorado How to Ruin Fun Games with Math April, 2022 • CU Math Club University of Colorado Incongruities of Infinity January, 2018 Teaching Experience • As Course Coordinator - Mathematical Analysis in Buisiness (MATH 1112) University of Colorado, Boulder Fall 2020 - Spring 2021 - Calculus II (MATH 2300) University of Colorado, Boulder Spring 2019 - Fall 2019, Fall 2022, Spring 2023 Data and Models (MATH 1212) University of Colorado, Boulder Fall 2018, Spring 2020

Summer 2017, Summer 2018, Spring 2022, Summer 2022, Fall 2022, Spring 2023, Summer

University of Colorado, Boulder

University of Colorado, Boulder

• As the Instructor

2023

- Calculus III (MATH 2400)

Spring 2016-Spring 2018

- Introduction to Statistics (MATH 2510)

University of Colorado, Boulder
University of Colorado, Boulder
University of Colorado, Boulder ummer 2023
University of Colorado, Boulder
University of Colorado, Boulder
University of Colorado, Boulder 23
University of Colorado, Boulder Fall 2022, Summer 2023
University of Colorado, Boulder
University of Colorado, Boulder 21, Fall 2023
University of Colorado, Boulder
University of Colorado, Boulder
University of Colorado, Boulder
Louisiana State University
Louisiana State University
Michigan State University
Michigan State University
Michigan State University

Computer Programming

- Working Knowledge of Computer Algebra Systems
 - GAP

www.gap-system.org

- Magma magma.maths.usyd.edu.au/
- $\bullet\,$ Working Knowledge of R

Service

- As an Administrator
 - Director of Lower Division Courses
 Summer 2019 Present
 - Chair of Teaching Postdoc Hiring Committee Spring 2022

Department of Mathematics

 $Department\ of\ Mathematics$

 Chair of Department Evaluation Committee for Reappointment/Promotion Department of Mathematics
 Fall 2023

• As a Committee Member

- Teaching Quality Framework Department of Mathematics Committee
Fall 2018 - Present

- Undergraduate Committee Department of Mathematics Committee Fall 2019-Present

- MATH 1212 Textbook Selection Department of Mathematics Committee Spring 2018

- Math Placement Exam Department of Mathematics Committee
Spring 2018

- Diversity Committee
Fall 2016 - Spring 2019

Department of Mathematics Committee

- Learning Assistant Hiring Department of Mathematics Committee
Spring 2016 - Present

Member of Teaching Postdoc Hiring Committee
 Spring 2023

Department of Mathematics

• As a Contributing Faculty Member

- Calculus Sequence Overhaul with Kevin Manley, Andrew Meier, Rebekah Jones, Lee Roberson, and Harrison Stalvey Summer 2023

- MATH 2510 Course Development with Elizabeth Grulke Summer 2023

- MATH 1150 Course Overhaul with Kevin Manley, Lee Roberson, and Harrison Stalvey Summer 2022

- Curriculum Development for MATH 1112 with Elizabeth Grulke Summer 2021

Curriculum Development for MATH 2300
 Fall 2019 - Spring 2020

Sole Contributor

Lee Roberson

- MATH 1212 Course Overhaul Spring 2018

with Faan Tone Liu and Lee Roberson

Curriculum Development for MATH 2400
 Spring 2017

Sole Contributor

IBL Methods of MATH 3430Fall 2017

Preprints and Publications

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

2017