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EDUCATION

- **Ph.D. Mathematics**, The University of California at Santa Cruz, Santa Cruz Spring 2018
Dissertation title: “The unit group of the Burnside ring as a biset functor for some solvable groups.”
Advisor: Robert Boltje
- **M.S. Mathematics**, The University of California at Santa Cruz, Santa Cruz Spring 2015
- **B.S. Mathematics**, California State University, Chico Spring 2012

TEACHING

- **Visiting Assistant Professor**, The College of William & Mary, Williamsburg, VA 2018 - 2020
Courses taught: Calculus I (Spring 2020), Calculus II (Fall 2018, Spring 2019, Summer 2019, Fall 2019), Calculus with Applications (Fall 2018), Abstract Algebra (Spring 2019), Topology (Fall 2019), Introduction to Statistics (Spring 2020).
- **Teaching Assistant/Instructor of Record**, The University of California at Santa Cruz, Santa Cruz, CA 2013 - 2018
Courses taught: College Algebra (Summer 2015, Summer 2016), Linear Algebra (Summer 2017).
Courses assisted: College Algebra, Precalculus, Calculus I, Calculus II, Linear Algebra, Advanced Linear Algebra, Introduction to Number Theory, Introduction to Group Theory.

PUBLICATIONS

- J. Barsotti, R. Carman: *Burnside rings of fusions systems and their unit groups* J. Group Theory (2020)
ISSN (Online) 1435-4446, ISSN (Print) 1433-5883, DOI: <https://doi.org/10.1515/jgth-2019-0145>.
- J. Barsotti: *Orthogonal units of the double Burnside ring*. Algebr. Represent. Theory (2019)
<https://doi.org/10.1007/s10468-019-09894-4>
- J. Barsotti: *On the unit group of the Burnside ring as a biset functor for some solvable groups*. J. Algebra 508 (2018), 219-255
- J. Barsotti, T. Mattman: *Graphs on 21 edges that are not 2-apex*. Involve **9:4** (2016), 591-621.
- J. Barsotti: *On the unit group of the Burnside ring as a biset functor for some solvable groups* (Thesis). ProQuest Digital Dissertations No. 56590782 (2018)

PREPRINTS

- J. Barsotti, T. Mattman: *Intrinsically knotted graphs with 21 edges*. (2013)
arXiv:1303.6911.

PROFESSIONAL DEVELOPMENT

- **Meetings Organized:**

- American Mathematical Society Fall Eastern Sectional Meeting, Binghamton, New York: Special Session on Groups and their Representation. Fall 2019

- **Presentations:**

- Pi Mu Epsilon Virginia Lambda Induction Ceremony Keynote Address, Williamsburg, Virginia, “Planar Graphs, Graph Minors, and Beyond.” Spring 2019

- William & Mary Groups, Analysis, Geometry Seminar, Williamsburg, Virginia, “The Double Burnside Ring.” Spring 2019

- William & Mary Groups, Analysis, Geometry Seminar, Williamsburg, Virginia, “The Burnside Ring of a Finite Group and its Unit Group.” Fall 2018

- American Mathematical Society Spring Central Sectional Meeting, Columbus, Ohio, Special Session on Structure and Representation Theory of Finite Groups, “The Unit Group of the Burnside Ring as a Biset Functor for Some Solvable Groups.” Spring 2018

- UC Santa Cruz Mathematics Department Undergraduate Colloquium, Santa Cruz, CA, “Intrinsically Knotted Graphs.” Winter 2017

- California State University Chico Mathematics Department Colloquium, Chico, “The Burnside Ring of a Finite Group, its Unit Group, and the Feit-Thompson Theorem.” Fall 2016

- Workshop on Representation Rings and their Unit Groups at UNAM, Morelia, Michoacán, Mexico, “The Unit Group of the Burnside Ring as a Biset Functor.” Summer 2016

- UC Santa Cruz Mathematics Department Graduate Colloquium, Santa Cruz, CA, “Units of the Burnside Ring.” Winter 2016

- American Mathematical Society Fall Western Section Meeting California State University, Fullerton, Special Session on Spatial Graphs, Fullerton, CA, “Graphs on 21 Edges that are Not 2-apex.” Fall 2015

- UC Santa Cruz Mathematics Department Undergraduate Colloquium, Santa Cruz, CA, “Forbidden Minors and Intrinsically Knotted Graphs.” Spring 2015

- California State University Chico Mathematics Department Colloquium, Chico, CA, “Minor Minimal Graphs that are Not Apex.” Fall 2012

- Chico Topology Conference, Chico, CA, “Minor Minimal Intrinsically Knotted Graphs with 21 Edges.” Summer 2012

- California State University Chico Mathematics Department Colloquium, Chico, CA, “Minor Minimal Intrinsically Knotted Graphs with 21 Edges.” Spring 2012

- California State University Student Research Competition, Fresno, CA, “Minor Minimal Intrinsically Knotted Graphs with 21 Edges.” Spring 2011

– Chico State Student Research Competition, Chico, CA,
“Minor Minimal Intrinsically Knotted Graphs with 21 Edges.” Spring 2011

– Northern California Undergraduate Math Conference, Stockton, CA,
“Minor Minimal Intrinsically Knotted Graphs with 21 Edges.” Spring 2011

• **Other conferences and workshops attended:**

– Functorial Methods in Representation Theory, Nesin Maths Village, Turkey August 2017

– An Introduction to Character Theory and the McKay Conjecture, Summer Graduate School at MSRI, Berkeley, CA July 2016

– IMMERSE, Summer Graduate School at the University of Nebraska, Lincoln, NE Summer 2013

• **Education conferences and workshops attended:**

– Active Learning Workshop, WestEd, Santa Cruz, CA September 2017

– HSI Faculty Summer Institute, ESCALA Educational Services, Monterey, CA Summer 2017

HONORS AND AWARDS

• Simon Prize for Excellence in the Teaching of Mathematics, The College of William & Mary 2019

• Regent’s Fellowship, University of California at Santa Cruz 2016-2017

• Research and Creativity Grant, California State University Chico Summer 2011

• Michael Dixon Memorial Scholarship, California State University Chico Spring 2010

MISCELLANEOUS

• **Mentor**, Summer Matrix Analysis REU at William & Mary, Williamsburg, VA Summer 2019

Along with Professor Charles R. Johnson, I mentored a group of 11 undergraduate students on Summer research projects that centered around Matrix Analysis and Spectral Graph Theory.

• **Graduate Student Mentor**, Directed Reading Program, UC Santa Cruz, Santa Cruz, CA Spring 2018

As a graduate student mentor, I worked one-on-one with an undergraduate student on topics in representation theory of finite groups.

• **Instructor**, UC Santa Cruz Project for Inmate Education, Santa Cruz, CA Winter 2017 - Spring 2018

National Science Foundation funded program aimed at decreasing inmate recidivism through university level education opportunities. As an instructor in this program, I taught college algebra at the Santa Cruz County jail.

• **Instructor**, Bruce W. Woolpert Algebra Academy, Watsonville, CA August 2015

• **Instructor**, Bruce W. Woolpert Algebra Academy, Watsonville, CA August 2016

• **Teaching Assistant**, COSMOS at UCSC, Santa Cruz, CA Summer 2014

COMPUTER SKILLS

- Python, MATLAB, GAP, some SAGE. some SQL
- LaTeX, Word, Excel/Google Sheets, PowerPoint/Beamer

REFERENCES

- Eric Swartz, The College of William & Mary, Williamsburg
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Phone: (757) 221-7974
Type: Teaching
- Ryan Vinroot, The College of William & Mary, Williamsburg
Email: crvinroot@math.wm.edu
Phone: (757) 221-2017
Type: Teaching
- Robert Boltje (PhD advisor), University of California at Santa Cruz
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Phone: (831) 459-5001
Type: Research/Personal
- Nandini Bhattacharya, University of California at Santa Cruz
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Phone: (831) 459-1265
Type: Teaching
- Frank Bäuerle, University of California at Santa Cruz
Email: bauerle@ucsc.edu
Phone: (831) 459-2964
Type: Teaching
- Thomas Mattman (Undergraduate advisor), California State University, Chico
Email: tmattman@csuchico.edu
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Type: Research