

Elizabeth E Leyton Chisholm

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EDUCATION

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

Ph.D. in progress, Mathematics, 4.0, expected 2015

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE

Master of Science, Mathematics *with distinction*, 4.0, May 2009

Bachelor of Science, Applied Mathematics *summa cum laude*, 3.97, Aug 2007

RESEARCH EXPERIENCE

UNIVERSITY OF CALIFORNIA, SANTA BARBARA PhD PROJECT, Sep 2010 - present

- Investigated properties of a representation of the braid groups to develop a new proof that braid groups are linear.
- Used Python and Mathematica to develop code to analyze braid group data.
- Used code to implement conjectures about the group representation to confirm their validity.

RESEARCH EXPERIENCE FOR UNDERGRADUATES, CalTech, June 2007 - Aug 2007

- Used Excel to analyze and investigate congruence properties of class numbers of binary quadratic forms.

RESEARCH EXPERIENCE FOR UNDERGRADUATES, CSUN, Nov 2006 - May 2007

- Analyzed images of biomedical particles using MATLAB.
- Implemented algorithms to recognize particles based on qualitative data.

TEACHING EXPERIENCE

TEACHING ASSISTANT/ASSOCIATE, UCSB, July 2010 - present

- Plan and instruct weekly sections to supplement undergraduate mathematics courses at UCSB for upper and lower division courses.
- Instructor of record for three math courses at UCSB: Differential Calculus, Integral Calculus for the Social Sciences, and Differential Equations.

INSTRUCTOR, SANTA BARBARA BUSINESS COLLEGE, Fall 2011

- Instructor of record for elementary and intermediate algebra.

TEACHING ASSOCIATE, CSUN, Aug 2008 - May 2009

- Instructor for a math fundamentals course designed for liberal arts majors.
- Tutored undergraduate students in the math lab.

NSF GK-12 FELLOW, CSUN, Aug 2007 - June 2008

- Developed advanced math lessons for middle school classrooms and implemented them in local schools.

SUPPLEMENTAL INSTRUCTOR, CSUN, Jan 2006 - May 2006

- Instructed twice weekly sections to supplement the college algebra course.

FELLOWSHIPS, AWARDS and HONORS

Outstanding Teaching Assistant, UCSB, June 2014

Raymond L. Wilder Award: Outstanding First Year Graduate Student, UCSB, June 2010

Ralph M. Parsons Fellowship, UCSB, Fall 2009 - Spring 2014

Outstanding Graduating Master's Student in Mathematics, CSUN, May 2009

NSF GK-12 Fellowship, CSUN, Fall 2007 - Spring 2008

Outstanding Graduating Senior in Mathematics, CSUN, May 2007

NSF MCTP Grant, CSUN, Spring 2006 - Spring 2007