

Elise A. Weir

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Education

Ph.D., Mathematics August 2018

University of Tennessee, Knoxville

Dissertation: “Dimension of the Restricted Hitchin Component for Triangle Groups”

Advisor: Morwen Thistlethwaite

B.S., Honors Mathematics, Summa Cum Laude

University of Tennessee, Knoxville

Honors thesis advisor: Grozdna Todorova

Employment

Visiting Assistant Professor July 2019 - July 2020

University of California, Santa Barbara

Postdoctoral Teaching Associate August 2018 - July 2019

University of Tennessee, Knoxville

Graduate Teaching Associate August 2014 - July 2018

University of Tennessee, Knoxville

HIM & Identity Technical Services June 2013 - December 2013

Epic Systems, Verona, WI

Computer Skills

Coursework C, C++, MATLAB
Research Use Python, L^AT_EX, Sage, Mathematica, GAP
Vocational Use Intersystems Caché, Perl, Visual Basic

Professional Activities

2016-2017 Student teaching and academic mentor to a first year graduate student
Fall 2014 & 2015 Timer for UT/Pro2Serve Math Contest
2009-2011 Treasurer for UNC Chapel Hill Association for Women in Mathematics
Fall 2009 “Network the Event” Volunteer for Family Math Day at Morehead Planetarium

Awards and Honors

- June 2018 Selected for participation in [AMS Mathematics Research Community on Number Theoretic Methods in Hyperbolic Geometry](#)
- April 2018 Yueh-er, Hong-hsu and Clarence Cheng Kuo Fellowship for Academic Merit
- Summer 2017 University of Tennessee Mathematics Department Summer Research Fellowship

References

- Morwen Thistlethwaite, Professor, University of Tennessee (mthistle@utk.edu)
- Marie Jameson, Assistant Professor, University of Tennessee (mjameso2@utk.edu)
- Luís Finotti, Associate Professor, University of Tennessee (lfinotti@utk.edu)
- **Teaching:** Joan Lind, Associate Professor, University of Tennessee (jlind@utk.edu)

Mathematics Qualifications

Research Interests

Representation Theory, Low-Dimensional Topology, and Hyperbolic Geometry

Publications

E. A. Weir, [The dimension of the restricted Hitchin component for triangle groups](#), Ph.D. thesis, University of Tennessee, 2018.

Teaching Experience

Primary Instructor, UCSB	Calculus I
	Calculus III
	Introduction to Proofs
	Abstract Algebra (Group Theory)
Primary Instructor, UTK	College Algebra - Fall 2014, Spring 2015, Summer 2015, Summer 2016
	Basic/Business Calculus - Spring 2015
	Calculus I - Fall 2016, Spring 2017, Fall 2017, Fall 2018
	Calculus II - Spring 2018
	Calculus II Honors - Fall 2018
	Calculus III - Fall 2015, Spring 2016
	Calculus III Honors - Spring 2019
Primary Instructor, UNC	Geometry (senior level) - Spring 2019
	Introduction to Mathematical Modeling
	Topics in Mathematics for Non-Science Majors
	Calculus I
	Calculus II

Conferences

November 2018	Texas Geometry and Topology Conference, Houston, TX
April 2018	Graduate Student Topology and Geometry Conference, Chicago, IL
June 2017	Graduate Student Conference in Algebra, Geometry, and Topology, Philadelphia, PA
April 2017	Graduate Student Topology and Geometry Conference, East Lansing, MI
March 2017	Southern Regional Algebra Conference, Mobile, AL
March 2017	MAA Southeastern Section Meeting, Macon, GA
May 2016	Graduate Student Conference in Algebra, Geometry, and Topology, Philadelphia, PA
April 2016	Graduate Student Topology and Geometry Conference, Bloomington, IN

Presentations

- January 2019 *Zariski dense surface subgroups in $SL(5, \mathbb{Z})$ and the restricted Hitchin component for triangle groups*
AMS Special Session on Number Theoretic Methods in Hyperbolic Geometry,
Joint Mathematics Meetings, Baltimore, MD.
- November 2018 *The Hitchin component for triangle groups in $Sp(2m)$ & $SO(m, m+1)$ (poster)*
Texas Geometry and Topology Conference, Rice University, Houston, TX.
- November 2018 *The dimension of the restricted Hitchin component for triangle groups (invited)*
Topology Seminar, University of California, Santa Barbara, CA.
- April 2018 *The dimension of the restricted Hitchin component for a triangle group*
Graduate Student Topology and Geometry Conference, Chicago, IL.
- February 2018 *The dimension of the restricted Hitchin component for a triangle group (invited)*
Topology Seminar, The Ohio State University, Columbus, OH.
- December 2017 *The dimension of the restricted Hitchin component for a triangle group*
Algebra Seminar, University of Tennessee, Knoxville, TN.
- April 2016 *Pseudomodular surfaces (expository)*
Geometry and Topology Seminar, University of Tennessee, Knoxville, TN.
- November 2015 *Complex hyperbolic geometry (expository)*
Geometry and Topology Seminar, University of Tennessee, Knoxville, TN.
- April 2015 *Faithfulness of the Burau representation of the braid group (expository)*
Algebra Seminar, University of Tennessee, Knoxville, TN.