

Curriculum Vita

John Bergschneider

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EDUCATION

Ph.D. in Pure Mathematics

Florida State University, Tallahassee

Thesis Advisor: Wolfgang Heil

Expected graduation Spring 2020

B.S in Mathematics

Florida State University, Tallahassee

May 2014

RESEARCH INTERESTS

- Geometric Topology
- Low Dimensional Topology
- Morse Theory

SCHOLARSHIPS & AWARDS

- Distinguished Teaching Assistant Recognition Award April 2019
- 3rd Place in Graduate Student Research Week Poster Competition April 2019
- Qian Endowment for Excellence Travel Support November 2018
- FSU Dean's Scholarship Fall 2016 – Fall 2019
- Bright Futures Scholarship 2010-2014

PAPERS

- J. Bergschneider, *Classifying Trivalent 2-Stratifolds with Finite Fundamental group* (In Preparation)
- J. Bergschneider, *Graphs of 2-Stratifolds* (Dissertation)

TEACHING EXPERIENCE

Instructor of record for Calculus III (MAC 2313)

Fall 2018, Fall 2019

- Lectured four times a week
- Prepared and provided lecture notes to students
- Wrote, administered, and graded tests, quizzes, and practice worksheets
- Provided assistance to students during office hours and review sessions

Instructor of record for Linear Algebra (MAS 3105)

Spring 2019, Summer 2019

- Lectured four times a week
- Prepared and provided lecture notes to students
- Wrote, administered, and graded tests, quizzes, and practice worksheets
- Provided assistance to students during office hours and review sessions

Instructor of record for Calculus I (MAC 2311)

Spring 2018, Summer 2018

- Lectured three to four times a week

- Prepared and provided lecture notes to students
- Wrote, administered, and graded tests, quizzes
- Provided assistance to students during office hours

Instructor of record for Precalculus (MAC 1140)

Spring 2017, Fall 2017

- Lectured three times a week and held a recitation session once a week
- Prepared and provided lecture notes to students
- Assigned and graded homework
- Proctored quizzes and tests
- Provided additional assistance to students during office hours and help sessions

Teaching Assistant

Fall 2016, Summer 2016, Summer 2017

- Courses: College Algebra, Liberal Arts Math, Trigonometry, Precalculus, Business Calculus.
- Managed weekly lab sections
- Provided additional assistance to students during office hours.
- Helped students in study sessions. Proctored quizzes and tests.

INVITED TALKS & POSTERS

Talk: *Classifying Stratified Spaces: 2-Foams and 2-Stratifolds* January 2020
 Special Session on Self-Distributive Structures, Knot Theory, and the Yang-Baxter Equation
 Joint Mathematics Meeting, Denver, CO.

Talk: *Classifying Trivalent 2-Stratifolds with Finite Fundamental Group* June 2019
 Graduate Student Conference in Algebra, Geometry, and Topology
 Temple University, Philadelphia, PA.

Poster: *2-Stratifolds* November 2018
 Texas Geometry and Topology Conference
 Rice University, Houston, TX.

TALKS & POSTERS

Talk: *Trivalent 2-Stratifolds* November 2019
 Topology and Geometry Seminar
 Florida State University, Tallahassee, FL.

Talk: *Genus 1 Heegard Splittings of Lens Spaces* September 2019
 Graduate Student Seminar
 Florida State University, Tallahassee, FL.

Talk: *Some Examples from Knot Theory* June 2019
 Graduate Student Seminar
 Florida State University, Tallahassee, FL.

Flash Talk: *Classifying Trivalent 2-Stratifolds with Finite Fundamental Group* April 2019
 Mathematics Graduate Student Research Week
 Florida State University, Tallahassee, FL.

Poster: *Detecting Simply Connected 2-Stratifolds* April 2019
 Mathematics Graduate Student Research Week
 Florida State University, Tallahassee, FL.

- Talk:** *Finite 2-Stratifold Groups* February 2019
 Topology and Geometry Seminar
 Florida State University, Tallahassee, FL.
- Talk:** *2-Stratifolds* October 2018
 Topology and Geometry Seminar
 Florida State University, Tallahassee, FL.
- Talk:** *Fundamental Groups of 3-Manifolds with Real Projective Plane Category 2* March 2018
 Topology and Geometry Seminar
 Florida State University, Tallahassee, FL.
- Talk:** *3-Manifolds with K-Category 2 and Graph Groups* October 2017
 Graduate Student Seminar
 Florida State University, Tallahassee, FL.
- Talk:** *On K-Category of 3-manifolds for K a Pseudo-Projective Plane or a 1-sphere wedge a 2-sphere* June 2017
 Candidacy Exam
 Florida State University, Tallahassee, FL.
- Talk:** *K-Contractible Sets and Group Contractible Sets in 3-Manifolds* April 2017
 Topology and Geometry Seminar
 Florida State University, Tallahassee, FL.
- Talk:** *Fiber Bundles and K-Category for 3-Manifolds* October 2016
 Topology and Geometry Seminar
 Florida State University, Tallahassee, FL.

CONFERENCES

- Tech Topology Conference* December 2019
 Georgia Tech
 Atlanta, GA.
- Georgia Topology Conference* May 2019
 University of Georgia
 Athens, GA.
- UF/FSU Topology and Geometry Meeting* February 2019
 Florida State University
 Tallahassee, FL.
- Tech Topology Conference* December 2018
 Georgia Tech
 Atlanta, GA.
- Texas Geometry and Topology Conference* November 2018
 Rice University
 Houston, TX.
- Tech Topology Conference* December 2017
 Georgia Tech
 Atlanta, GA.

AMS Fall Southeastern Sectional Meeting
 University of Central Florida
 Orlando, FL.

September 2017

UF/FSU Topology Conference
 University of Florida
 Gainesville, FL.

February 2017

LEADERSHIP, SERVICE, & OUTREACH

Co-organizer for Graduate Student Seminar	FALL 2019
Mentor, AWM FSU Student Chapter	SEPTEMBER 2019 – PRESENT
Prospective Graduate Student Liaison	FALL 2018 – PRESENT
FSU High School Math Contest Grader	NOVEMBER 2017
Graduate Student Council	AUGUST 2018 – PRESENT
Volunteer, FSU Math at Tallahassee Science Festival	SEPTEMBER 2016
Incoming Graduate Student Liaison	2015–PRESENT
Volunteer, Annual FSU Math Fun Day	2014–PRESENT

CERTIFICATIONS AND TRAINING

Canvas Training — FSU Math Department	2018
MyMathLab Training — FSU Math Department	2018
FSU PIE Teaching Training Recognition	2016
FSU Advanced PIE Teaching Training Recognition	2016
TA Class and Supervised Teaching — FSU Math Department	2016

PROFESSIONAL ORGANIZATIONS

Pi Mu Epsilon	2017 – Present
Association for Women in Mathematics	2016 – Present
American Mathematical Society	2014 – Present

TECHNICAL SKILLS

Programming Language: C++, Python, Django, CSS, HTML
Mathematical Software: Mathematica, \LaTeX
Microsoft Works: Excel, Powerpoint
Educational Software: MyMathLab, WebAssign, Blackboard, Canvas

LANGUAGES

English: Native Speaker
Spanish: Intermediate Knowledge
French: Basic Reading Knowledge