

# Curriculum Vita

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## Education

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| YEARS                  | DEGREE/ROLE                   | AFFILIATION          | GPA (OUT OF 4.0) |
|------------------------|-------------------------------|----------------------|------------------|
| 2014–2018 <sup>†</sup> | Ph.D., Mathematics            | FSU                  | 3.84             |
| 2015–2016              | Visiting Graduate Student     | Princeton University | —                |
| 2012–2014              | M.S., Mathematics             | FSU                  | 3.81             |
| 2010–2012              | M.A., Mathematics             | BGSU                 | 3.71             |
| 2009–2010              | B.A., Mathematics w/ CS Minor | VSU                  | 3.77             |
| 2007–2009              | B.S., Applied Math            |                      | 3.66             |

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<sup>†</sup> = expected graduation date

FSU = Florida State Univ

BGSU = Bowling Green State Univ

VSU = Valdosta State Univ

## Professional Experience

### Teaching Experience

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| YEARS        | POSITION             | AFFILIATION | COURSES TAUGHT  |
|--------------|----------------------|-------------|---|
| 2016–Present | Instructor of Record | FSU         | Applied Linear Algebra (Sp'18); Ordinary Differential Equations (Su'17); Calculus III (Sp'17); Calculus II (Fa'16)                            |
| 2014         | Instructor of Record |             | Precalculus (Sp'14)   |
| 2012–2014    | CAI proctor          |             | Liberal Arts Math (Sp'13); College Algebra (Fa'13, Fa'12); Precalculus (Su'13, Fa'12); Trigonometry (Sp'13); Business Calculus (Fa'13, Sp'13) |
| 2010–2012    | Instructor of Record | BGSU        | Calculus IB (Sp'12); Calculus IA (Fa'11); Precalculus (Spr'11); Business Calculus (Fa'10)   |

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## Related Professional Experience

| YEARS     | POSITION                               | AFFILIATION            |
|-----------|--|------------------------|
| 2015–2016 | TA (math dept web designer/programmer) | FSU                    |
| 2014–2016 | Math Content Developer                 | Wolfram Research, Inc. |
| 2015      | Grader                                 | FSU Math Department    |
| 2013–2014 | Research Intern                        | Wolfram Research, Inc. |
| 2012      | Grader                                 | BGSU                   |
| 2010      | Lab Monior / IT support                | VSU                    |
| 2007–2010 | Peer Tutor                             |                        |
| 2004–2007 | Peer Tutor                             | WC                     |

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## **Publications**

### Peer-Reviewed Publications

7. “Investigation of the Qualitative Behavior of the Equilibrium Points for a Modified Lotka-Volterra Model.” *Georgia Journal of Science* **67** (3), 46–59, 2009. With Jemal Mohammed-Awel and Andreas Lazari.

### Unrefereed & Expository Articles

6. *Foliations and Contact Structures in Manifold Theory*, 2016. Preprint.
5. *Sutured 3-Manifolds, Finite-Depth Foliations, and Related Topics*, 2014. Preprint. DOI: 10.13140/2.1.4212.8965.
4. *Topics in Complex and Hypercomplex Geometry*, 2014. Preprint. DOI: 10.13140/2.1.4406.4324.
3. *A Survey of Quaternionic Analysis*, 2013. Preprint. DOI: 10.13140/2.1.3357.8560.

### Miscellaneous Professional Writings

2. Over 400 encyclopedia-style math entries written for MATHWORLD<sup>1</sup>, 2013–2016. Accessible online at <http://mathworld.wolfram.com/topics/Stover.html>.
1. Content contributions to Dr. Craig Zirbel’s Math 5910 Wiki, 2012. Accessible online at <http://tinyurl.com/mwtosl8>.

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<sup>1</sup>As of February 2017, no other contributor has written more than 400 articles for MATHWORLD.

## Presentations

### Invited Presentations

21. *Visualizing the Limiting Behavior of Iterated Conformal Mappings*, 2015. Department Lectures, Department of Mathematics & Computer Science, Rhode Island College.

### Local & Miscellaneous Presentations

20. *Transverse Laminations on a Certain Class of 3-Manifolds*, 2016. First annual FSU math department flash talks.
19. *3-Manifolds, Taut Foliations, and Universal Circles*, 2016. FSU math department Graduate Student Seminar.
18. *The FunctionSpaces Project: (A Step Towards) Making Abstraction Computable*, 2015. Joint Wolfram Research Inc. / UIUC virtual presentation.
17. *Computability in Pure Mathematics: An Entity-Property Framework for Function Spaces*, 2015. Virtual presentation to the Wolfram|Alpha Scientific Content group.
16. *The Quest for Reebless Foliations in Sutured 3-Manifolds*, 2014. Advanced Topics Exam, FSU Topology Seminar.
15. *Sutured Manifold Hierarchies and Finite-Depth Foliations*, 2014. FSU Topology Seminar.
14. *Curvature and the Shape of Space*, 2014. FSU Math Fun Day.
13. *Type Inferencing and Predictability: Probabilistic Models and the Wolfram Demonstrations Project*, 2014. Wolfram Science Summer School Capstone Presentation, Bentley University, Boston, MA.
12. *An Introduction to Generalized (Complex) Geometry*, 2014. FSU Complex Analysis Seminar.
11. *Limit Sets and Applications to Foliation Theory*, 2014. FSU Topology Seminar.
10. *Limit Sets and Their Applications*, 2014. FSU math department Graduate Student Seminar.
9. *Hyperkähler Manifolds*, 2013. FSU.
8. *Foliations of Riemannian Manifolds*, 2013. FSU.
7. *Constructing Complex Manifolds Using Lie Groups*, 2013. FSU Complex Analysis Seminar.
6. *Complex Structures on Manifolds*, 2013. FSU Complex Analysis Seminar.
5. *Function Theory in Polydiscs I & II*, 2012. Two-part presentation at BGSU.
4. *Investigation of the Qualitative Behavior of the Equilibrium Points for a Modified Lotka-Volterra Model*, 2009. The Georgia Academy of Science, Atlanta, GA.
3. *Investigation of the Qualitative Behavior of the Equilibrium Points for a Modified Lotka-Volterra Model*, 2009. The Walton Symposium, Atlanta, GA.

2. *Investigation of the Qualitative Behavior of the Equilibrium Points for a Modified Lotka-Volterra Model*, 2009. Council on Undergraduate Research Symposium, Valdosta State University.
1. *Investigation of the Qualitative Behavior of the Equilibrium Points for a Modified Lotka-Volterra Model*, 2009. Pi Mu Epsilon Inauguration Ceremony, Valdosta State University.

## Professional Development Activities

### Pedagogical Training

| SEMESTER    | ACTIVITY   | LOCATION      |
|-------------|--|---------------|
| Fall 2016   | Supervised Teaching <sup>sem</sup>                             | FSU Math Dept |
|             | Internship in College Teaching <sup>sem</sup>                  |               |
| Spring 2011 | PIE Orientation / TA conference                                | FSU           |
|             | Technology for the Mathematics Graduate Student <sup>sem</sup> |               |
| Fall 2010   | Curriculum Analysis and Classroom Behavior <sup>sem</sup>      | BGSU          |
| Summer 2010 | Overview of Collegiate Mathematics Teaching <sup>sem</sup>     |               |

<sup>sem</sup> = full-semester obligation      PIE = Program for Instructional Excellence

### (Math) Workshops and Summer Schools

| YEAR | ACTIVITY   | LOCATION              |
|------|--|-----------------------|
| 2015 | Workshop on Flows, Foliations and Contact Structures           | IAS / Princeton       |
|      | Workshop on Geometric Structures on 3-Manifolds                |                       |
|      | First Summer School in Geometry and Topology <sup>†</sup>      | University of Chicago |
|      | Diffeomorphism Groups Workshop <sup>†</sup>                    | UC Berkeley           |
| 2014 | Graduate Summer School in Geometric Group Theory <sup>†×</sup> | MSRI                  |
|      | Wolfram Science Summer School <sup>†</sup>                     | Boston, MA            |

IAS = Institute for Advanced Study      <sup>†</sup> = events for which funding was received      <sup>×</sup> = declined acceptance  
 MSRI = Mathematical Sciences Research Institute

### (Math) Conferences Attended

| YEAR | CONFERENCE   | LOCATION      |
|------|--|---------------|
| 2017 | Groups Explored Through Geometry and Dynamics <sup>†</sup> | Princeton     |
|      | $G^3$ : Geometric Group Theory on the Gulf <sup>†</sup>    | Pensacola, FL |
|      | FSU/UF Joint Topology Meeting                              | UF            |

|      |  |               |
|------|--|---------------|
|      | Joint Math Meetings (JMM) <sup>†</sup>                             | Atlanta, GA   |
| 2016 | 31st Geometry Festival   | Princeton     |
| 2015 | 40th Spring Lecture Series <sup>†</sup>                            | UA            |
|      | Clifford Analysis and Related Topics                               | FSU           |
|      | 4th annual Tech Topology Conference <sup>†</sup>                   | GT            |
| 2014 | Ahlfors-Bers Colloquium VI <sup>†</sup>                            | Yale          |
|      | 29th Summer Conference on Topology and Applications                | CUNY-SI       |
|      | What's Next? The Mathematical Legacy of Bill Thurston <sup>†</sup> | Cornell       |
|      | $G^3$ : Geometric Group Theory on the Gulf <sup>†</sup>            | Pensacola, FL |
| 2013 | FSU/UF Joint Topology Meeting                                      | FSU           |

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<sup>T</sup> = tentative    UGA = Univ of Georgia    UF = Univ of Florida    <sup>†</sup> = events for which funding was received  
 UA = Univ of Arkansas    GT = Georgia Institute of Technology    CUNY-SI = CUNY Staten Island

### Professional Memberships

- American Mathematical Society (AMS)
- Association for Women in Science (AWIS)
- Golden Key International Honor Society
- Pi Mu Epsilon (PME) Math Honor Society
- Society for Industrial and Applied Mathematics (SIAM)

### **Service Activities**

- Secretary, Math Grad Student Council (MGSC), Spring 2017–Present.  
 → The MGSC is a liaison between the graduate students and the administration which helps to (a) foster communication between students and faculty, (b) helps acclimate new graduate students into the department + get a feel for navigating some of the technical requirements of being a grad student. As secretary, I was responsible for attending and recording minutes therefor + cataloging the data in an online repository.
- Co-founder and co-organizer, Grad Student *Sheaves in Topology* Seminar, Summer 2017.  
 → I (and one other student) started a weekly-ish (informal) seminar to work through the topics/details from the book *Sheaves in Topology* by Alexandru Dimca. Mathematics aside, duties include initiating/furthering communications among participants and helping to organize meeting times.
- Graduate Liaison, FSU's Undergraduate Math Society, 2017–2018.  
 → This is a mentor position which serves to bridge the gap between undergraduates, grad students, and professors in FSU's department of mathematics.

- Participant, FSU’s *Art in STEM*, 2017.
  - As a way to expose some very basic research-level mathematics to a general audience, I submitted a piece of art for FSU’s *Art in STEM* program. My piece was selected for display and was awarded *Best Artistic Beauty*.
- Co-organizer, FSU Math Department’s Graduate Student Seminar, Spring/Fall 2017.
  - Tasks include organizing talks, gathering and disseminating details about said talks, and communicating with grad students/faculty members in our department. We also moderate the seminar each week and fix small-scale IT problems as they arise.
- Undergraduate Research Mentor, 2015–Present.
  - I’ve worked with four FSU undergraduates on topics related to mathematics including topological quantum computing (2015–2016), economics/game theory (2016–2017), computational topology/theoretical computer science (2017), and differential geometry/general relativity (2017–present).
- Judge, Capital Regional Science and Engineering Fair, 2014–2015.
  - Along with a small team of other faculty/graduate students from the FSU math department, I interview middle school and high school students regarding math fair projects they’ve completed, evaluate them for effort and technical merit, and assign (/mark/turn in) scores to determine whether the projects are suitable for next-level presentation.
- Volunteer Grader, FSU High School Math Contest, 2013–2014.
  - Each year, the FSU math department hosts an area-wide math test for local high school students. The end result is a large number of math tests which need to be graded, and I was one of the volunteers who graded the 2013 and 2014 tests.
- Volunteer, FSU *Math Fun Day*, 2013–2014 & 2017.
  - DESCRIPTION: *Math Fun Day* is a highly-successful annual outreach event hosted by the FSU math department. For these years, I volunteered to perform various duties including creating/presenting posters/presentations and “floating” to help answer general questions, and directing lost attendees to their desired locations.

## Awards & Recognitions

| YEAR | AWARD                            | STATUS    | NOTES  |
|------|----------------------------------|-----------|--|
| 2018 | Goodner Fellowship               | Awarded   | One of 3 TAs awarded by the math department for excellence in teaching.  |
|      | OTAA                             | Nominated | One of approximately 100 TAs nominated University-wide.  |
| 2017 | Qian Endowment for Excellence    | Awarded   | Given by FSU’s math department to support graduate student travel to conferences; chosen from a pool of applicants by a three-member departmental committee. |
|      | Distinguished Teaching Assistant | Awarded   | Recognized by the FSU department of mathematics. One of eight recipients.  |
|      | Best Artistic Beauty             | Won       | Awarded for my submission in FSU’s <i>Art in STEM</i> art competition; out of 36 submissions.  |

|           |                               |           |  |
|-----------|-------------------------------|-----------|--|
|           | OTAA                          | Nominated | One of approximately 100 TAs nominated University-wide.  |
| 2016      | Teaching Training Recognition | Received  | Given by PIE.  |
| 2015      | Evelyn Baugh Scholarship      | Won       | "...recognizes students for their...excellence through activities such as research, peer mentoring, teaching, service, and/or participation in professional associations." Given by FSU. |
|           | Uhrhan Scholarship            | Won       | "...to support students who are majors in programs associated with Foreign Language, Physics or Mathematics." One of two math department recipients; given by FSU.                       |
| 2014      | Pi Mu Epsilon                 | Inducted  | Invited and inducted into the Florida Beta chapter in recognition of honorary mathematical achievement.  |
| 2012–2013 | FSU Dean's Scholarship        | Received  | —  |
| 2008–2009 | Outstanding Math Senior       | Won       | Given by VSU's math department.  |
|           | PME Math Competition          | 1st Place | Contest held at/by VSU.  |
|           | Mack Award                    | Nominated | Awarded to outstanding male student at VSU.  |
| 2007–2008 | Foundation Scholarship        | Won       | <i>President's Foundation Scholarship</i> ; given by WC.   |

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OTAA = Outstanding Teaching Assistant Award

PIE = Program for Instructional Excellence  
WC = Waycross College

VSU = Valdosta State Univ

## Professional References

DR. SÉRGIO FENLEY  
FSU

DR. ALEC KERCHEVAL  
FSU

DR. LEONARDO PINHEIRO  
RIC

DR. SO-HSIANG CHOU  
BGSU

DR. CRAIG NOLDER  
FSU

DR. PENELOPE KIRBY\*  
FSU

DR. ERIC WEISSTEIN  
WRI

DR. CRAIG ZIRBEL\*  
BGSU

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BGSU = Bowling Green State Univ    \* = Teaching Reference