

## **WILLIAM JACOB TSCHUME**

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## **EDUCATION**

### **Ph.D. Higher Education Leadership**

*Mississippi State University* (May 2026)

- Major Professor: Dr. Christa Winkler
- Committee Members: Dr. Clay Armstrong, Dr. Danielle Molina, & Dr. Eric Moyer
  - *Dissertation Title: The Role of Math Anxiety – And Associated Support Mechanisms and Strategies – in the Academic Success of STEM College Students*

### **M.S. in Mathematics**

*Mississippi State University* (May 2012)

- Major Professor: Dr. Hai Dang
- Committee Members: Dr. Len Miller & Dr. Chaunxi Qian
  - *Project Title: A PDE Elliptic System With Sign Changing Nonlinearities*

### **B.S. in Mathematics (Minor in Statistics)**

*Mississippi State University* (May 2010)

- Advisor: Dr. Paul Fabel

## **ACADEMIC EMPLOYMENT HISTORY**

### **Instructor II of Mathematics**

*Mississippi State University* (August 2023 – Present)

- Courses Taught: MA 0103, MA 1323, MA 1723, MA 2733, MA 3113, LSK 1063
- Class sizes range from 30 to 150 students.

### **Instructor I of Mathematics**

*Mississippi State University* (August 2015 – August 2023)

- Courses Taught: MA 0103, MA 1313, MA 1323, MA 1613, MA 1713, MA 1723, MA 2733, MA 3113, LSK 2990
- Class sizes ranged from 45 to 200 students.

### **Lecturer of Mathematics**

*Mississippi State University* (August 2012 – August 2015)

- Courses Taught: MA 0103, MA 1313, MA 1323, MA 1613, MA 1713
- Class sizes ranged from 45 to 200 students.

### **Instructor in the Summer Developmental Program**

*Mississippi State University* (Summer 2012)

- I taught two sections of MA 0003, which allowed students who did not have the ACT requirements to previously enroll in the university to gain acceptance into Mississippi State University for the Fall 2012 semester.

## **Graduate Teaching Assistant**

*Mississippi State University* (August 2010 – May 2012)

- Teaching sections of MA 1313 and 1323, working in our Math Domain and Mathematics Programming Lab, and tutoring for the Center for Academic Excellence.

## **ACADEMIC SERVICE HISTORY**

### ***Department of Mathematics & Statistics Service***

#### **Committee Work**

- MA 1313 Course Committee (August 2012 – July 2017)
- MA 1323 Course Committee (August 2012 – May 2021) *Chair* (August 2013 – May 2020)
- MA 1613 Course Committee (August 2012 – Present) *Co-Chair* (August 2018 – May 2024)
- Calculus and Intro to Linear Algebra Course Committee (August 2015 – Present)
- Evaluation of Teaching Assistants Committee (August 2015 – May 2024)
- Departmental Assessment Committee (August 2018 – May 2021)
- Evaluation of Classroom Teaching Committee (ECTC) (August 2022 – May 2025)
- Advisory Committee (August 2024 – May 2025)
- Promotion and Tenure Committee (August 2024 – May 2025)
- General Education Committee (August 2025 – Present)

#### **Academic Advising**

I have been an academic advisor since August 2015 for the Department of Mathematics & Statistics. I advise between 10 – 15 students each semester who are pursuing either a Bachelor of Arts or Bachelor of Science degree in Mathematics. I also help advise our undergraduate students who are working on the “4 + 1” degree in the Department of Mathematics & Statistics.

#### **Coordinator Roles**

I am the coordinator of the Mathematics Placement Test and have been in this position since August 2014. I work with students who do not have sufficient ACT math sub scores to enter a respective class that is needed to further themselves into their classes for their major. I also work with students who do not submit an ACT/SAT score to Mississippi State University and thus are not placed into a math course upon admission. They can take a mathematics placement test that, if passed, will allow students to place into a respective class. This will allow some students the opportunity to get ahead or stay on schedule in the mathematics course work.

**\*\*Need to add about transition from MyMathTest to ALEKS PPL in Fall 2025 semester\*\***

### ***College of Arts & Sciences Service***

#### **Committee Work**

- Courses and Curricula Committee (August 2021 – May 2024) *Chair* (August 2022 – May 2024)
- Scholarship Committee (August 2018 – Present)
- Promotion and Tenure Committee (August 2024 – Present)
- Search Committee for the *Betty and Ralph Alewine Endowed Merit Scholarship* (Spring 2025)

## **Mentorship**

I have served as a mentor in the New Faculty Mentorship Program run through the Dean's office a total of four times. The purpose is to help new faculty get adjusted to life not only at Mississippi State but also in the city of Starkville. My mentees in the program include:

Dr. Brian Bill, Department of Biological Sciences, Academic Year 2019-20  
 Mr. Logan Copeland, Department of Communication, Academic Year 2020-21  
 Mr. Jesse Wade, Department of Communication, Academic Year 2021-22  
 Mr. Tim Wallace, Department of Geosciences, Academic Year 2024-25

## ***Mississippi State University Service***

### **Committee Work**

- Athletic Council (August 2023 – May 2026)
- University Course and Curriculum (August 2018 – May 2019, August 2026 - Present)
- Robert Holland Faculty Senate (August 2021 – December 2021 \*Replacement Member; August 2023 – Present)
  - Vice President (July 2025 – June 2026)
  - Chair of Charter & Bylaws Standing Committee (July 2026 – Present)
  - Chair of Faculty Affairs Standing Committee (July 2024 – June 2025)
  - Served on Institutional Effectiveness Committee (August 2023 – May 2024)
  - Served on Registration and Scheduling Committee (August 2023 – Present)
  - Served on University Course and Curriculum Committee (August 2024 – May 2026)
- General Education Committee (October 2024 – Present)
  - Mathematics & Statistics Subcommittee
- Luckyday Scholars Program Reading Committee (Spring Semesters 2024 - 26)
- Luckyday Scholars Program Interview Committee (Spring Semesters 2024 - 26)

### **External Reviewer**

I have provided external review of faculty promotion and tenure materials, offering evaluative feedback on teaching and service contributions in alignment with institutional and disciplinary standards. The faculty members for whom I have written reviews are:

- XXX for promotion to Associate Clinical Professor, Division of Arts & Sciences, Mississippi State University, 2022

- XXX for promotion to Instructor II, Department of Management & Information Systems, Mississippi State University, 2025

### **Working Group**

- First Year Academy with the Gardner Institute: Part of a working group that spent the Spring 2024 semester attending classes within the “Academy on the First Year of College” through the Gardner Institute. Our objective was to begin thinking about how to redesign students’ first year of college when it comes to success. At the end of the class, we worked on a report entitled, “Strategic Planning for Student Success in the First Year and Beyond” and submitted this report to Dr. Keenum and Dr. Shaw. This working group was chaired by Dr. Eric Moyen.

### **Programs with Teaching Focus**

Each summer between 2013 and 2023, excluding 2022, I taught a section of either MA 1323 or MA 1713 for the College Ready Program offered through the Division of Access, Opportunity and Success. The program is for incoming freshmen that want to get a head start on their college journey. It allows the students to get accustomed to college life while there are not as many students on campus while also getting 3 – 6 hours of college credit.

Each fall semester since 2023, I teach a section of LSK 1063 as an introduction course for students that are selected to the Luckyday Scholars Program at Mississippi State University. The Luckyday Scholars Program’s mission is to create a community of scholars who aspire to servant leadership. At the heart of this process, the scholars will be investing in the core values of scholarship, community, service, and leadership.

### **Workshop Instruction**

From August 2013 to July 2023, I taught the mathematics/quantitative reasoning portion of the GRE and GMAT workshop respectively. These workshops were offered through the Center for Academic Excellence with endorsements by The Graduate School. The focus of these workshops was for students who have never taken the respective test and getting them comfortable with the format and working some types of problems they will see. We also discuss test taking strategies for the respective test. These workshops were held 2 – 3 times each throughout the year.

### **Mentorship**

I mentored 5 freshman students in the Fall 2019 semester as part of the Day One Leadership Program. They were tasked with working with a Community Partner (Casserole Kitchen) to complete service hours along with a service project at the end of the semester. I was there to provide advice and guide them through the process of working with a non-MSU organization.

## AWARDS AND HONORS

- John Grisham Master Teacher Award (2022)
- College of Arts & Sciences Teaching Award in Natural & Physical Sciences and Mathematics (2020)
- Nominated and Finalist for the Alumni Association Early Career Undergraduate Teaching Excellence Award (2018 & 2019)

## SELECTED PRESENTATIONS/INVITED TALKS

- “Math Anxiety Matters: Institutional Supports and STEM Success”
  - *AMATYC Annual Conference, Philadelphia, PA* (November 2026)
- Panelist for HED 6990 – The Professoriate at Mississippi State University.
  - Class taught by Dr. Jason Wallace (July 2026)
- “More Than Numbers: How Math Anxiety Shapes Student Success in Gateway STEM Courses”
  - *Department of Mathematics Colloquium Series at Mississippi State University* (April 2026)
- “Game Plan Deviation: Telling My Story Through Stats”
  - *SEC+ Mathematics Education Community Fall 2025 Meeting, Virtual Event* (September 2025)
- “ClassroomQ – A New Way of Answering Questions in Class”
  - *International Conference in Teaching Collegiate Mathematics, Orlando, FL* (March 2020)
- “Coordinator Courses in MyMathLab”
  - *International Conference in Teaching Collegiate Mathematics, Scottsdale, AZ* (March 2019)
- “Using Office Mix for Success in Online Courses”
  - *International Conference in Teaching Collegiate Mathematics, Washington, D.C.* (March 2018)
- “Using a Coordinator Course in MyLabs Plus”
  - *International Conference in Teaching Collegiate Mathematics, Chicago, IL* (March 2017). Co-presenter: Kimberly Walters
- “Keeping a Small Class Feel in a Large Classroom”
  - *International Conference in Teaching Collegiate Mathematics, Chicago, IL* (March 2017)
- “Using MOBI Technology for In Class and Online Instruction”
  - *International Conference in Teaching Collegiate Mathematics, Atlanta, GA* (March 2016)
- “Success Using MyMathLab Beyond College Algebra”
  - *International Conference in Teaching Collegiate Mathematics, Las Vegas, NV* (March 2015)

## **PROFESSIONAL DEVELOPMENT**

- Completed the course CTL – 101 (Best Practices in Online Instruction) in November 2016. This course was offered through the Center for Teaching and Learning at Mississippi State University and taught by Dr. Kris King.
- Completed the “Teaching Portfolio” workshop offered through the Center for Teaching and Learning at Mississippi State University in May 2020. The workshop was led by Dr. Michael Seymour.
- Attended “Serving the Whole Student: Using Data to Measure the Student Well-Being Experience” through the Center for Teaching and Learning at Mississippi State University.
- Attended “Course Design Roundtable: Enhancing Relevance and Assessment” through the Center for Teaching and Learning at Mississippi State University.
- Attended “Course Design Roundtable: Creating Meaningful Assessments” through the Center for Teaching and Learning at Mississippi State University.

## **PROFESSIONAL MEMBERSHIPS**

- Member of the American Mathematical Society
- Member of the MCMA (Mississippi Collegiate Mathematical Association)

## **INTERESTS**

- Innovative teaching methods for large and small class sizes.
- Integration of technology in teaching mathematics.
- Developing strategies for student success in higher education.