

## **John Travis, Ph.D.**

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<http://math.mc.edu/travis>

Professional interests: *Numerical Linear Algebra and Open-Source Mathematics*  
Member: Mathematical Association of America, ACMS

### **Employment History**

1988 – Present: Professor and Chair (currently), Department of Mathematics, Mississippi College, Clinton, MS

2014 – 2015 – MAA PREP Consultant, Mathematical Association of America

2012 – 2014 – MAA WeBWork Consultant, Mathematical Association of America

May-December 2006: Senior Research Mathematician, Army Corps of Engineers, Engineer Research and Development Center, Vicksburg, MS.

2005 – 2006: Webmaster, Mississippi College, Clinton, MS

1982 – 1988: Teaching Assistant, Department of Mathematics, University of Tennessee, Knoxville, TN

Summers 1983, 1984: Adjunct Instructor, Department of Mathematics, Mississippi College

Summer 1982: Mathematical Programmer for WaterWorks, Clay Street, Vicksburg, MS

### **Educational Background**

#### **Ph. D., Mississippi State University, December 1994**

Dissertation title: *On Twists For  $C^1$  Tensor Surfaces And Solids With Applications To Grid Generation*

Advisor Dr. C. Wayne Mastin

#### **M.S., University of Tennessee, August 1985**

Thesis title: *A Numerical Study Of Diagonally Implicit Runge Kutta Methods For A Parabolic Differential Equation*

Advisor Dr. Larry Bales

#### **B.A., Mississippi College, May 1982**

Double Major: Mathematics and Business

### **Selected Institutional Service**

- Chair, Mathematics – 2004–present
- Supervisor, Mississippi College Community Service Center - 1998–2004
- Faculty Council - 1996–2000, 2004–2008, 2013–present, President, 2015–2016
- Faculty Club President - 2003–2004
- Mortar Board Advisor – 2014–present

### **Selected Professional Service**

- Board of Governors, Mathematical Association of America, 2006–2009
- Committee on Website Policy and Procedures, Mathematical Association of America
- Committee on Technologies in Mathematics Education – 2007–2016, Chair 2013–2016
- Editor for MAA Distinguished Lecturer Video Series, 2011 – 2015
- Strategic Planning Group on Periodicals and Communication – 2008–2011
- Working Group on e-Communities – 2009–2011
- WeBWork Leadership Team – 2011–present
- Sage Development – 2011–2015
- Executive Committee of the Louisiana/Mississippi Section of the Mathematical Association of America:
  - Chair (2002–2003), MS Vice-Chair (2001–2002) Past Chair (2003–2004)
  - Technical Editor and Publisher for the *Proceedings of the LA/MS Section of the MAA* - 1999–present
  - Newsletter Editor - 1998–2001
  - Web Coordinator - 1996–present
- Judge for Mississippi Mu Alpha Theta Convention – 1997–present

### **Awards**

- Louisiana/Mississippi MAA Distinguished Teaching Award–2013
- Distinguished Alumnus, Mathematics – Mississippi College–2014

### **Selected Presentations and Workshops**

- Invited panelist for “Workshop on Mathematics in the Time of MOOCs”, Fields Institute, Toronto, June 2016
- Invited speaker for the Tougaloo Mathematics Lecture Series, January 2015
- Keynote Speaker for the MUW Sonia Kovalevsky Day, October 2013
- Organizer and presenter for the JMM 2013 and JMM 2014 minicourses "WeBWork: An Open Source Alternative for Generating and Delivering Online Homework Problems"
- PREP 2015 - "Authoring Effective Homework Problems with WeBWork" - organizer and presenter
- PREP 2015 – “Becoming a Successful WeBWork System Administrator” – organizer and presenter
- PREP 2014 - "Authoring Effective Homework Problems with WeBWork" - organizer and presenter
- PREP 2013 - "Authoring Effective Homework Problems with WeBWork" - organizer and presenter
- PREP 2013 - "Building Model Courses for Online Homework with WeBWork" - organizer and presenter

## Community Service

- Board of Directors of Mississippi College Employees Credit Union, 1995–present, President, 2012–present
- Board of Directors for the Woodmoor Homeowner's Association - 1998–2000
- Member of Clinton Public Schools PTO - 1999–present

## Church Service

- Deacon - 1993–1996, 2003–2006, 2013–present, Vice-Chairman – 2015
- Director/Counselor for Royal Ambassadors - 1992–1994, 1999–2013
- Personnel Committee – 2009–2011, Chair–2011
- Church Instrumental Ensemble, Guitars – 2005–present
- Numerous other committee and teaching roles

## Courses Taught at Mississippi College

- College Algebra - Math 101 \*
- Trigonometry - Math 102 \*
- Calculus I - Math 121
- Calculus II - Math 122
- Finite Mathematics - Math 205
- Applied Calculus - Math 206
- Applied Linear Algebra – Math 213 \*
- Calculus III - Math 221
- Calculus IV - Math 222 \*
- Foundations of Mathematics - Math 301 \*
- Discrete Structures - Math 309 \*
- Differential Equations - Math 352 \*
- Intro. to Mathematical Probability and Statistics - Math 353 \*
- Numerical Methods - Math 381
- Linear Algebra - Math 413/5415 \*
- Mathematics Seminar - Math 431 (Recreational Mathematics)
- Advanced Calculus - Math 450/5426 \*
- Applied Problem Solving – Math 452/5452 \*
- Mathematical Probability and Statistics - Math 453/5462 \*
- Graph Theory - Math 455/5465
- Numerical Analysis - Math 481/5462
- Topics in Higher Algebra - Math 6520/6521
- Real Analysis - Math 6526 \*
- Modern Geometry - Math 6551
- Mathematical Modeling - Math 6570

(\* within the past three years)