

# YUANYUAN SONG

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Department of Mathematics, Gordon Palmer Hall  
The University of Alabama, Tuscaloosa, AL 35401

## EDUCATION

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**Ph.D. Applied Mathematics**, The University of Alabama, Tuscaloosa, AL *May 2015*

Dissertation: Stability Analysis of a Bilayer Contained within a Cylindrical Tube

**M.A. Mathematics**, The University of Alabama, Tuscaloosa, AL *May 2011*

**B.S. Statistics**, Nankai University, Tianjin, China *June 2009*

## TEACHING EXPERIENCE

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**Instructor/Course Coordinator** Spring 2015 - present  
*The University of Alabama* *Tuscaloosa, AL*

- Calculus I – Summer 2017
- Calculus II – Spring 2016
- Calculus III – Fall 2017, Spring 2017
- Honors Calculus I – Fall 2016
- Honors Calculus II – Fall 2016
- Honors Calculus III – Spring 2018
- Applied Differential Equations – Fall 2015
- Theory of Probability – Fall 2015
- Finite Mathematics – Summer 2016
- Business Calculus & Applications – Spring 2018, Fall 2017, Spring 2017, Fall 2016, Spring 2016, Fall 2015, Spring 2015
- Online Business Calculus & Applications – Spring 2018, Spring 2017
- Precalculus Algebra – Spring 2018, Summer 2016, Spring 2015
- Intermediate Algebra – Spring 2017, Summer 2015

**Graduate Teaching Assistant/Tutor** Fall 2009 - Fall 2014

- Calculus I Recitation – Fall 2010
- Calculus II Recitation – Spring 2011
- Applied Differential Equations – Spring 2014, Fall 2012

- Business Calculus & Applications – Fall 2014, Fall 2013, Spring 2013
- Precalculus Trigonometry – Spring 2012
- Precalculus Algebra – Fall 2014, Fall 2012, Fall 2011, Summer 2011
- Intermediate Algebra – Summer 2014, Spring 2014

### **Training**

- Innovation Scholar in Online Teaching, Spring 2018.
- Completed the College of Continuing Studies Online Educator Professional Development Program, Fall 2016.
- Obtained GTA training of teaching methods, Fall 2010.

### **AWARDS**

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The University of Alabama Graduate Student Outstanding Teaching Award, (2013-2014)  
 Graduate Student Travel Grant, (2014, 2013)  
 Graduate Teaching Assistantship, (Fall 2009 – Fall 2014)  
 Henry Miller Fellowship, (2013, 2012, 2011)

### **COMPUTER COMPETENCIES**

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Maple, Matlab, SAS, L<sup>A</sup>T<sub>E</sub>X, C++, MS Office.

### **ACADEMIC ACTIVITIES**

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November 22-25, 2014 – Presentation: *Nonlinear analysis of the influence of surfactant on the stability of a liquid bilayer inside a compliant tube.* The 67<sup>th</sup> Annual Meeting of the APS Division of Fluid Dynamics – Respiratory Bio-Fluid Dynamics II session (E15), San Francisco, CA.

January 15-18, 2014 – Participant: 2014 Joint Mathematics Meetings, Baltimore, MD.

November 24-26, 2013 – Presentation: *The influence of surfactant on the stability of a liquid bilayer inside a rigid tube.* The 66<sup>th</sup> Annual Meeting of the APS Division of Fluid Dynamics – Fluid Film Flows session(L28), Pittsburgh, PA.

November 16, 2013 – Poster: *The influence of surfactant on the stability of a liquid bilayer inside a rigid tube.* The 2<sup>nd</sup> annual WISE event at The University of Alabama, Tuscaloosa, AL.

2012, 2011, 2010, 2009 – Participant: The Annual University of Alabama System Applied Mathematics Meeting.

Summer 2010 – Participant: Penn State–Göttingen International Summer School in Mathematics.