

## Faculty Curriculum Vitae

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**NAME:** Tong Wu  
**POSITION/TITLE:** Instructor  
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### Education:

- Ph. D Mathematics Study (Completed 42 credits), University of Houston, Texas,
- M. S. in Mathematics, Texas Southern University, Houston, Texas, 1992
- M. S. in Computer Science, Harbin Institute of Technology, Harbin, China, 1987
- B. S. in Computer Science, Harbin Science & Technology University, China, 1984

### Experiences:

- Teaching Mathematics Courses, Mathematics Department, Texas Southern University, 1989 – Present

### University Activities:

- Teaching College Algebra, Math Business and Economic Analysis I & II, Trigonometry, Contemporary Mathematics, Pre-Calculus, Fundamental Math I (former course: Structure and Applications of Number Systems), Foundations of Geometry, Statistics, and Probability, Calculus, Elementary Statistics, Number Theory, Numerical Analysis, Math Topics, Geometry, History of Mathematics, Foundations of Mathematics, and Analysis.
- Mentor of COSET-SURP
- A CERTIFIED TSU Online Lecturer
- Teach math courses using MyLab math (MyMathLab) Pearson since 2002.
- Teach Math courses using Webassign, MindTap Cengage since 2006.
- The first faculty member of mathematical sciences department to teach online courses
- Teaching to use Scientific and Graphing Calculators
- Teaching to use Mathematical Software: Maple, Derive, MS Excel
- Teaching to use web-based mathematical math software tools: desmos, geogebra, WolframAlpha, wolfram Mathematica, and more.
- Being a member of Honors College Faculty.

### Memberships in Professional Organizations:

- Mathematical Association of America
- American Mathematical Society
- National Association of Mathematicians
- Association for Women in Mathematics
- National Council of Teachers of Mathematics

**Be a Mentor of COSET-SURP 2015, 2016, 2018, 2019, 2020(cancelled)**  
**Be an H-SEF Judge (the 8<sup>th</sup> annual Harmony Science and Engineering), Apr 23, 2022.**

### **Presentations/Talks:**

- **Visualization of Numbers, MATHEMATICS DEPARTMENTAL SEMINAR of Texas Southern University, October 21, 2022.**
- **Using Desmos in Teaching, MATHEMATICS DEPARTMENTAL SEMINAR of Texas Southern University, May 21, 2021.**
- **How to Teach a Synchronous/Asynchronous Online Course, MATHEMATICS DEPARTMENTAL SEMINAR of Texas Southern University, Nov. 8, 2019.**
- **An Application of Mathematics: Music, National Association of Mathematicians RFCRTE TALK #13, April 28, 2019.**
- **Use Induction to Prove, Mathematics Department Seminar of Texas Southern University**
- **How to use Blackboard Learn as a distance learning platform to teach, Texas Southern University 2005.**
- **How to use the TI-83 Graphing Calculator series, Mathematics Department Seminars of Texas Southern University, 1995 -2007**
- **Calculator Based Laboratory™ System (CBL) series, Mathematics Department Seminars of Texas Southern University, 1995 -2007**
- **How to use Mathematics Software Maple-V and Derive series, Mathematics Department Seminars of Texas Southern University, 1995 -2007**
- **Calculator-based and Computer-based methods for solving mathematics problems series, Mathematics Department Seminars of Texas Southern University, 1995 -2007**
- **Interdisciplinary studies of Mathematics, Finances and Computer Sciences, Mathematics Laboratory of Texas Southern University, 1992 – 1995.**

### **Grants:**

- **QEP Faculty Engagement (Development) Play, November 2021**
- **TSU Online Master Math133 (College Algebra) Design, Spring 2018**

### **Workshops:**

- **TSU-NSF Calculus Reform Workshop (5 days), June 1995**
- **Project InterMath Computational Science Workshop (3-days), Macalester College June 1998**
- **Coalition for the Mathematical Preparation of Elementary Teachers Workshop (10 days) 1998-1999**
- **University Forum, Austin, Texas, May 22-25, 2000**
- **SIAM Southwest Regional Workshop: Mathematics in Industry, April 27-28, 2001, University of Houston Hilton Hotel and Conference Center Houston, TX, 77004**

### **Publications:**

- **Gabriel Dominguez and Tong, Wu. Stimulants on School Grounds, ProceedingsSURP-2019.**
- **Kenneth M. Kellough and Tong Wu. Computational Fluid Dynamic Analysis of Crossflow Turbine, ProceedingsSURP-2018.**
- **Oladimeji Ogunyemi and Tong Wu. Bridging Mathematics and Rap Song, ProceedingsSURP-2016.**
- **Oladimeji Ogunyemi and Tong Wu. A bridge between music and mathematics, ProceedingsSURP-2015.**
- **Tong Wu, Parametric Equations Describe Curves, April 2001, Vision final project report.**
- **Tong Wu, Watering Horses, January 1997, Vision final project report.**
- **Tong Wu, Study patterns through difference equations, March 1992, Mathematics Department, Texas Southern University Final Project Report.**

- **Tong Wu, Modifications on the PC Operation System, July 1987, HIT Final Project Report.**
- **Tong Wu and Deyang Lu, A Weight Measuring Controlling System for Railway Trains, July 1994, HUST Final Project Report.**