

Xue (Shirley) Gong

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Education

Ohio University <i>Ph.D., Mathematics</i> Dissertation: <i>Dynamical Systems in Cell Division Cycle, Winnerless Competition Models, and Tensor Approximations</i>	Athens, OH, USA 2010-2016
Ohio University <i>M.S., Mathematics</i>	Athens, OH, USA 2010-2012
Donghua University <i>B.S., Mathematics and Applied Mathematics (Mathematical Finance)</i>	Shanghai, China 2006-2010

Teaching Experience

University of Wisconsin-Stout Department of Mathematics, Statistics and Computer Science <i>Associate Professor</i> <i>Assistant Professor</i>	Menomonie, WI 2022-present 2017-2022
<ul style="list-style-type: none">• Instructor of record for the following courses:<ul style="list-style-type: none">○ MCSC 446 Numerical Analysis I○ MSCS 351 Mathematical Modeling○ MATH 399 Independent Study (Partial Differential Equations for Engineers)○ MATH 270 Discrete Mathematics○ MATH 255 Differential Equations○ MATH 250 Differential Equations with Linear Algebra○ MATH 158 Calculus III○ MATH 157 Calculus and Analytic Geometry II○ MATH 156 Calculus and Analytic Geometry I○ MATH 154 Calculus II○ MATH 153 Calculus I○ MATH 151 Calculus with Pre-Calculus B○ MATH 150 Calculus with Pre-Calculus A○ STAT 130 Elementary Statistics○ MATH 90 Intermediate Algebra• MAA Project NExT (New Experience in Teaching) Fellow (Peach'18)	

Augustana College Department of Mathematics and Computer Science	Rock Island, IL
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Visiting Assistant Professor

2016–2017

- Instructor of record for the following multi-sections courses:
 - Math 221 Calculus III (two sections)
 - Math 220 Calculus II (two sections)
 - Math 218 Pre-Calculus (four sections)

Ohio University

Athens, OH

Department of Mathematics

Graduate Teaching Assistant

2010–2016

- Instructor of record for the following courses:
 - Math 3600 Applied Numerical Methods (three sections)
 - Math 3400 Elementary Differential Equations (one section)
 - Math 2302 Calculus II recitation sections (four sections)
 - Math 2301 Calculus I recitation sections (four sections)
 - Math 251 Introduction to Probability and Statistics II (one section)
 - Math 250/2500 Introduction to Probability and Statistics I (three sections)
 - Math 115/1300 Pre-calculus (five sections)
 - Math 113 College Algebra (one section)

Publications

- Gong, X., Wang, T., & Xie, X. (2025) Existence and stability of forced oscillation of an abstract evolution equation. *Asian Journal of Control*, 1-13, DOI [10.1002/asjc.3736](https://doi.org/10.1002/asjc.3736).
- Gong, X., Mohlenkamp, M., & Young, T. (2018) The Optimization Landscape for Fitting a Rank-2 Tensor with a Rank-1 Tensor. *SIAM Journal on Applied Dynamical Systems*, **17(2)**, 1432-1477.
- Afraimovich, V., Gong, X., & Rabinovich, M. (2015). Sequential memory: binding dynamics. *Chaos: An Interdisciplinary Journal of Nonlinear Science*, **25**, 103-118.
- Gong, X., Moses, G., Neiman, A., & Young, T. (2014). Noise-induced dispersion and breakup of clusters in cell cycle dynamics. *Journal of Theoretical Biology*, **355**, 160-169.
- Gong, X., Buckalew, R., Young, T., & Boczko, E. (2014). Cell cycle dynamics in a response/signaling feedback system with a gap. *Journal of Biological Dynamics*, **8(1)**, 79-98.

Service

- Serving as a STEMM College representative on the University Curriculum and Instruction Committee in 2021-2027.
- Serving as a faculty representative on the University Tuition Reimbursement Committee in 2024-2027.

- Serving as a faculty representative on the Educational Support Unit Review Committee in 2020-2026.
- Alternate of the University Stout Core Committee in 2025-2028.
- Served as the chair of the department search committee for CNIE faculty and instructional academic staff positions in 2024-2025.
- Served as a faculty representative on the University Student Disciplinary Hearing Committee in 2021-2025, and 2018-2020.
- Served on MAA WI Section Conference planning committee in 2022-2023 and 2019-2020. The conference was originally planned to be held at UW-Stout in 2020, but it was later changed to be held in 2023.
- Alternate of the University Planning & Review Committee in 2019-2022.
- Served as a faculty representative on the Student Centers Advisory Committee in 2020-2021.
- Served on the department textbook committee for selecting new textbooks for MATH 120/121 and STAT 130, in Spring 2021.
- Served as an alternate on the University Curriculum and Instruction Committee in 2018-2021.
- Served on the department textbook committee for selecting a new textbook for MATH 250, in Spring 2020.
- Served on the department search committee for a faculty position in statistics, in Fall 2019.
- Served on the department textbook committee for selecting a new textbook for MATH 250 in Fall 2018.
- Served on the Department Colloquium Committee in 2017-2019.
- Participated in UW-Stout Student Learning Outcome Assessment Workshop 2017-2018. Together with colleagues in the department, we created effective student learning outcomes for MATH 153/156 Calculus I class and developed assessments that evaluate how well the learning outcomes have been achieved.

Conferences and Workshops

National and State Level Conferences and Workshops:

- September 10, 2024: Participant in OLSUME (Online Seminar on Undergraduate Mathematics Education) session on Building Thinking Classrooms
- July 11-27, 2023: Participant in MAA OPEN MATH Workshop on Inclusion and Inquiry
- April 28-29, 2023: Organizer and participant in MAA Wisconsin Section Meeting at UW-Stout
- March 31-April 2, 2022: Participant in the MAA Wisconsin Section Virtual Meeting.
- October 26 & 28, 2021: Participant in the MAA Virtual Programming Modeling in Your Differential Equations Coursework.

- October 23, 2021: Speaker of the talk “A Preliminary Study of the Effect of Belongingness Intervention on Student Performance” at the 2021 MAA Section NExT-Wisconsin Fall Virtual Conference.
- October 21-22, 2021: Early Career STEM Educators Workshop focusing on "Increasing Inclusivity in STEM" hosted by UW-Systems Women and Science Program at Wisconsin Dells, WI.
- October 20 & 27, 2021: Participant in the MAA Virtual Programming Teaching Proving: Lessons Learned from My Students.
- August 4-7, 2021: Participant in the MAA Virtual MathFest, attended the minicourse Application Inspired Linear Algebra: Using Data in the Classroom, and judged the Undergraduate Student Paper Session.
- May 23-27, 2021: Participant in the 2021 SIAM Virtual Conference on Applications of Dynamical Systems.
- April 24, 2021: Participant in the MAA Wisconsin Section Virtual Meeting.
- November 7, 2020: Participant in the MAA Section NExT-Wisconsin Fall 2020 Virtual Conference.
- October 29, 2020: Participant in the workshop Level Up Your WebAssign Skills sponsored by Cengage.
- July 29, 2020: Participant in the workshop LockDown Browser and Respondus Monitor for Canvas New Quizzes hosted by Respondus.
- May 4, 2020: participant in the session Options and Advice for Assessing Students' Learning Online hosted by TPSEMath and MAA.
- July 31-August 3, 2019: Participant in 2019 MAA MathFest and organizer of the session “Using Pre-Class Assignments to Support Active Inquiry During Class”. This is a Project NExT Peach’18 session in the format of a combination of lightning talks, participant workshop, and closing remarks on research efficacy.
- April 12-13, 2019: Participant in the MAA Wisconsin Section Meeting at Carthage College.
- January 15-19, 2019: Participant in the 2019 Joint Mathematics Meetings and attending Project NExT Workshop.
- August 1-4, 2018: Presenter at PosterFest in 2018 MAA MathFest on Reinforcing Algebra Skills for students in Calculus and judge for Undergraduate Student Paper Session, while attending Project NExT Workshop.
- May 28-31, 2018: Participant in the UW System Faculty College at Richland Center, Wisconsin.
- April 6-7, 2018: Participant in the Wisconsin MAA Spring Meeting at UW-Eau Claire.
- January 10-13, 2018: Judge for 2018 MAA Undergraduate Student Poster Session at 2018 Joint Mathematics Meetings and participating in a MAA minicourse on teaching modeling-first differential equations.
- October 26-27, 2017: Participant in the UW System Women and Science Opening Workshop for new STEM educators at Wisconsin Dells, Wisconsin.

- May 24, 2017: Presenter at SIAM Conference on Applications of Dynamical Systems. Minisymposium presentation “Yeast Cultures Have Large Coupling Strengths: Random Perturbations on Cell-Cell Coupling Dynamics”.
- May 25, 2015: Participant in Workshop on Topics in Applied Dynamical Systems: Equivariance and Beyond at Mathematical Biosciences Institute at Ohio State University. Poster presentation “Cell Cycle Dynamics in a Coupled System with a Delay on results based on the cell-cell coupling model with a gap”.
- May 20, 2015: Presenter in SIAM Conference on Applications of Dynamical Systems. Poster presentation “Feasibility of Heteroclinic Binding networks”.
- July 7-18, 2014: Participant in MBI-CAMBAM-NIMBioS summer graduate program Rhythms & Oscillations at the Ohio State . I worked on a group project and presentation on cell cycle models and the analysis of cells synchronization through circadian entrainment supervised by Dr. John Tyson.
- August 26, 2013: Participant in Workshop for Young Researchers in Mathematical Biology at Mathematical Biosciences Institute at Ohio State University. Poster presentation “Noise-Induced Dispersion and Breakup of Clusters in Cell Cycle Dynamics”.
- May 19, 2013: Presenter at SIAM Conference on Applications of Dynamical Systems. Minisymposium presentation “Dispersion and Breakup of Clusters in Cell Cycle Dynamics by Various Mechanisms”.
- 2011–2015: Participant in Midwest Dynamical Systems (MWDS) Meetings. Poster presentation “Heteroclinic Binding Networks—a Model in Sequential Memory” on October 31, 2015.

University-Level Workshops and Training:

- Fall 2021 - Present: Participant in the NTLC Sharing Community on EDI and MATH/STAT/CS/CNIT.
- December 2025-January 2026: Participant in multiple digital accessibility workshops held by LTS.
- Fall 2025: Participant in the NTLC TILT (Transparency in Learning and Teaching) Workshop. I completed two assignments in TILT format and collected data from students using pre-assessment and post-assessment surveys.
- September 30, 2024 & August 29, 2019: Acquiring Talent Workshop at UW-Stout.
- Fall 2021 - Spring 2022: Participant in the NTLC Sharing Community on Alternative Grading Policies.
- September 3, 2021: Participant in the session Engaging Students with Podcasting hosted by LTS.
- Completion of Intercultural Development Inventory, February 2019, May 2021.
- January 21, 2021: Participant in the session Helping Yourself and Your Students During a Pandemic held by UW-Stout Counseling Center.
- January 19, 2021: Participant of the workshop Designing Inclusive Syllabi with Dr. Leni Marshall at UW-Stout.

- September 2, 2020: Participant in the training session Navigate Training 1 & 2 held by UW-Stout Advising Center.
- September 1, 2020: Participant in the session Bias Response: How to Support Students Who Experience Bias at UW-Stout.
- Fall 2020 - Spring 2021, Participant in the NTLC Sharing Community on the book, Me and White Supremacy.
- February 21, 2020: Participant in the session Canvas Best Practices-Kaltura and My Media held by LTS at UW-Stout.
- January 16, 2020: Participant in the workshop Small Teaching: Everyday Lessons from the Science of Learning with Dr. James Lang at UW-Eau Claire.
- October 11, 2019: Participant in the session Using Active Learning Strategies to Produce Full Engaged Students held by NTLC at UW-Stout.
- September 17, 2019: Participant in the panel discussion Student Voices: Insights for Teaching Diverse Populations held by Dean of Students and NTLC.
- September 3, 2019: Participant in SoTL: A Team Approach Workshop held by NTLC at UW-Stout.
- March 14, 2019: Participant in the NTLC book discussion on Mindset: The New Psychology of Success.
- March 13, 2019: Participant in the workshop Quick Tips for Enriching Student Advising held by Advisement Center staff.
- February 11, 2019: Participant in the LTS Workshop Getting Started with Canvas.
- January 14, 2019: Participant in the NTLC Workshop Anxiety in the College Classroom: Insights and Supportive Teaching Practices.
- Fall 2017-Spring 2018: Participant of the NTLC Teaching Champions Community of Practice. I completed a scholarly project on Practices to Reinforce Algebra Skills for Students in Calculus I.
- Fall 2017-Spring 2018: Participant in UW-Stout Student Learning Outcome Assessment Workshop. Together with colleagues in the department, we created effective student learning outcomes for Math 153/156 Calculus I class and developed assessments to promote students' ability to apply Calculus knowledge to their chosen field of study.
- Fall 2017-Spring 2018: Participant of the First-Year Faculty Program.
- May 3, 2018: Presenter in the poster session on Research Day at UW-Stout.
- January 18, 2018: Participant in the NTLC Workshop on Student Motivation and Engagement, featuring Dr. Mary Beth Leibham from UW-Eau Claire.
- Fall 2017: Participant of the Online Teaching Short Course (OTSC) at UW-Stout.

Seminar and Colloquium Talks

- October 11, 2019: Speaker at the Festival of Scientific Computing at UW-Stout of the talk Watch Out for Swamps in Tensor Approximation.

- November 17, 2017: Speaker at Mathematics Colloquium of UW-Stout of the talk Yeast Cultures Have Large Coupling Strength.
- March 23, 2016: Speaker at Mathematics and Computer Science Department Seminar of Augustana College of the talk Circular Statistics and Its Application to Yeast Cell Cycle Coupling Models.
- November 10, 2015: Speaker at Mathematical Biology Seminar of Ohio University of the talk Robustness of Binding Heteroclinic Networks—a Model in Sequential Memory.
- February 5, 2015: Speaker at Undergraduate Colloquium of Department of Mathematics and Statistics of University of Minnesota Duluth of the talk Circular Statistical Methods in Dispersion of Clusters in a Cell-Cycle Coupling Model.
- January 21, 2015: Speaker at Mathematical Biology Seminar of Ohio University of the talk Mathematical Models in Emergent Behaviors in Biological Complex Systems.
- October 15, 2014: Speaker at Mathematics Department Colloquium of Marshall University of the talk Clustering and Noise-Induced Dispersion in Cell Cycle Dynamics.
- October 9, 2014: Co-presenter at Mathematical Biology Seminar of Ohio University of the talk Clustering in the Cell Division Cycle of Yeast.

Scholarships and Awards

- 2018: UW-Stout NTLC funding for completing Teaching Champions Community of Practice.
- 2018: UW-Stout NTLC First-Year Faculty Program Funding.
- 2017: Professional Meeting Allowance (PMA) fund from Augustana College.
- 2015: SIAM Student Travel Award for SIAM Conference on Applications of Dynamical Systems (DS15).
- 2012: Ying-Chien Chang Graduate Scholarship from the Department of Mathematics, Ohio University in recognition of scholarly achievement as a graduate student.
- 2009: Second National Prize in China Undergraduate Mathematical Contest in Modeling (CUMCM).
- 2008: China National Scholarship from Ministry of Education of China in recognition of academic achievement in undergraduate studies.
- 2007 & 2008: Donghua University Scholarship from Donghua University in recognition of academic achievement in undergraduate studies.
- 2007: Yizheng Scholarship from Donghua University in recognition of academic achievement in undergraduate studies.