

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 2010–2016
Ohio University <i>M.S., Mathematics</i>	Athens, OH 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>Assistant Professor</i>	Menomonie, WI 2017–present
<ul style="list-style-type: none">○ Instructor of record for the following courses:<ul style="list-style-type: none">- Math 90 Intermediate Algebra (one section)- Math 153 Calculus I (four sections)- Math 250 Differential Equations with Linear Algebra (one section)○ Participant of the New Instructor Workshop in August, 2017.○ Participant of the First-Year Faculty Program in 2017-2018.○ Participant of the Online Teaching Short Course (OTSC) in 2017 fall semester.○ Participant of the NTLC Teaching Champions Community of Practice in 2017-2018.	
Augustana College Department of Mathematics and Computer Science <i>Visiting Assistant Professor</i>	Rock Island, IL 2016–2017
<ul style="list-style-type: none">○ Instructor of record for the following multi-sections courses:<ul style="list-style-type: none">- Math 221 Calculus III (two sections)- Math 220 Calculus II (two sections)- Math 218 Pre-Calculus (four sections)○ Participant of a collegial Teaching Observation Group.○ Participant of the New Faculty Mentoring Circles.	

Ohio University

Department of Mathematics

Graduate Teaching Assistant

Athens, OH

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)
- Participant in teaching assistant training in Math 509: College Mathematics Teaching for New Teaching Assistants, and Elip 522: Classroom Communication Skills for International Teaching Assistants.
- Participant of the Professional Development of Graduate Teaching Assistants Workshop Series.

Service

- Participant in UW-Stout Student Learning Outcome Assessment Workshop 2017-2018. Together with colleagues in the department, we create effective student learning outcomes for Math 153/156 Calculus I class and develop assessments that evaluate how well the learning outcomes have been achieved.
- Serving on the Department Colloquium Committee 2017-2018.

Publications

- Gong, X., Mohlenkamp, M., & Young, T. The Optimization Landscape for Fitting a Rank-2 Tensor with a Rank-1 Tensor. (Accepted by SIAM Journal on Applied Dynamical Systems (SIADS) on January 9, 2018.)
- Afraimovich, V., Gong, X., & Rabinovich, M. (2015). Sequential memory: binding dynamics. *Chaos: An Interdisciplinary Journal of Nonlinear Science*, **25**, 103118.
- 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.

Conferences and Workshops

- 2018-01-11: Judge for 2018 MAA Undergraduate Student Poster Session at 2018 Joint Mathematics Meetings.
- 2017-10-26: Participant in the UW System Women and Science Opening Workshop for New STEM Educators.

- 2017-05-24: Presenter in SIAM Conference on Applications of Dynamical Systems (DS17). Minisymposium presentation *Yeast Cultures Have Large Coupling Strengths: Random Perturbations on Cell-cell Coupling Dynamics*.
- 2015-05-25: 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.
- 2015-05-20: Presenter in SIAM Conference on Applications of Dynamical Systems (DS15). Poster presentation *Feasibility of heteroclinic binding networks*.
- 2014 July: 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.
- 2013-08-26: 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* on results based on noised-induced cell cycle models.
- 2013-05-19: Presenter in SIAM Conference on Applications of Dynamical Systems (DS13). 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.

Seminar and Colloquium Talks

- 2017-11-17: Speaker at Mathematics Colloquium of UW-Stout of the talk *Yeast cultures have large coupling strength*.
- 2016-03-23: 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*.
- 2015-11-10: Speaker at Mathematical Biology Seminar of Ohio University of the talk *Robustness of binding heteroclinic networks—a model in sequential memory*.
- 2015-02-05: 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*.
- 2015-01-21: Speaker at Mathematical Biology Seminar of Ohio University of the talk *Mathematical models in emergent behaviors in biological complex systems*.
- 2014-10-15: Speaker at Mathematics Department Colloquium of Marshall University of the talk *Clustering and noise-induced dispersion in cell cycle dynamics*.
- 2014-10-09: Co-presenter at Mathematical Biology Seminar of Ohio University of the talk *Clustering in the cell division cycle of yeast*.

Scholarships and Awards

- 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