Curriculum Vita

Lin Ge
Division of Arts & Sciences
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EDUCATION:

University of Connecticut
Ph.D. in Pure Mathematics, July 2009
Advisor: Ron Blei

M.S. in Actuarial Science May 2003

California State University, Dominguez Hills
MBA in Management May 2000

Wuhan University
B.S. in Genetics, July 1986

TEACHING EXPERIENCE:

Mississippi State University
Assistant Professor of Mathematics/Statistics, 2011 - Present
Courses taught:
Business Statistical Methods II
Calculus for Business and Life Science
Data Analysis I
Data Analysis II
Informal Geometry and Measure
Introduction to Statistics
Introduction to Probability
Introductory Business Statistical Methods
Introduction to Mathematical Statistics II
Problem Solving with Real Numbers
Structure of the Real Number System
Trigonometry

Mississippi State University
Instructor of Mathematics/Statistics, 2009 - 2011
Courses taught:
Business Statistical Methods II
Calculus for Business and Life Science
Introduction to Statistics
Introduction to Probability
Introductory Business Statistical Method
Precalculus with Graphical Calculators
Problem Solving with Real Numbers

University of Connecticut
Teaching Assistant, 2003 - 2009
Courses taught:
Multivariable Calculus
Calculus I
Calculus II
Calculus for Business and Economics
Math for Business and Economics
Elementary Discrete Mathematics
Elementary Mathematical Modeling
Problem Solving

RESEARCH
EXPERIENCE:

Mississippi State University, 2009 - Present

Study variable bandwidth kernel regression estimation. The often-used kernel regression estimator is the Nadaraya-Watson estimator which uses fixed bandwidth. Our study uses variable bandwidth to improve the accuracy of estimation. In the literature, variable bandwidth is widely used to estimate density function but has limited use in kernel regression estimation.

Study statistical distributions of self-normalized sums of independent random variables. Specifically, the research compares small tail probabilities between self-normalized sums and the standard normal distribution. In literature, it is called the Cramer type moderate deviation. It is related to the central limit theorem which is widely used in statistics. The research can be used in many applied areas including insurance and risk analysis.

Study functional analysis and probability. The research builds relationships between combinatorial measurements and norms in Orlicz spaces. The relationships are then used to generalize some classical theorems.

Study the teaching of mathematics and statistics to students who have diversified mathematical backgrounds. The research studies difficulties students may encounter and how teachers can help students overcome their difficulties. My research also focuses on different mathematical representations (for example, graphs, formulas, tables, and words) and how teachers can use multiple representations to help students understand course material.

OTHER WORK EXPERIENCE:

Yubo Company, China
Production Supervisor, 1991 - 1998
Scheduled and coordinate production activities. Maintained effective quality procedures

Northern Health Research Institute, China
Research Assistant, 1986 - 1990
Performed cell cultures. Collected and analyzed experiment data.

UNIVERSITY SERVICES:

Faculty advisor for the Student Government Association at Mississippi State University's Meridian Campus

Member of the Promotion and Tenure Document Committee for the Meridian Campus

Member of the dissertation committee for a Ph.D. student of the Division of Education at the Meridian Campus

Member of the search committee for social work field director

AWARDS:

State Pride Faculty Award, 2011
Award to recognize excellence with regard to faculty member's contribution to the missions of teaching, research, or service at Mississippi State University

Certificate of Appreciation as an Outstanding Instructor, 2011
Award given by students in recognition of my dedication to the training and development of Mississippi State University, Meridian Campus

Dissertation Fellowship, 2009
Award given to select Ph.D. Students at the University of Connecticut in the final stages of their dissertation work

PUBLICATIOS:

Variable bandwidth kernel regression estimation, *ESAIM: Probability and Statistics 25 (2021) 55-86.*

Further refinement of self-normalized Cramér-type moderate deviations, *ESAIM: Probability and Statistics 21 (2017) 201-209.*

Combinatorial Dimensions of Sets, *Journal of Applied Global Research-JAGR, Volume 5, Issue 15-Winter 2012.*

Sequences of Multiple Representations in Mathematics Education, *Journal of Applied Global Research-JAGR, Volume 5, Issue 14-Fall 2012.*

Graphical Representations for Introductory Statistics Education, *Journal of Applied Global Research-JAGR, Volume 4, Issue 11-December 2011.*

Teaching Mathematics for Students with Diversified Mathematical Backgrounds, *Review of Higher Education and Self-Learning-RHESL, Volume 4, Issue 8-February 2011.*

Relationships between Combinatorial Measurements and Orlicz Norms (Part II), *Journal of Functional Analysis, 257 (2009), No. 12, p3949-3967.*

Relationships between Combinatorial Measurements and Orlicz Norms, *Journal of Functional Analysis, 257 (2009), No. 3, p683-720.*

CONFERENCE: Conference Presentation at 2015 Joint Statistical Meetings, Seattle, WA, August 8-13, 2015.
"On the range of self-normalized Cramer type moderate deviations"

Conference Presentation at 2015 Joint Mathematics Meetings, San Antonio, TX, January 10-13, 2015.
"On the range of self-normalized Cramer type moderate deviations"

Conference Presentation at American Mathematical Society Sectional Meeting, Eau Claire, WI, September 20-21, 2014.
"On the range of self-normalized Cramer type moderate deviations"

2014 Joint Mathematical Meetings, Baltimore, January 15-18, 2014.

American Mathematical Society Annual Meeting, Oxford, MS, March 1-3, 2013.

Conference Presentation at Intellectbase International Consortium, Atlanta, GA, October 18-20, 2012.
"Combinatorial Dimensions of Sets"

Conference Presentation at Intellectbase International Consortium, Nashville, TN, May 24-26, 2012.
"Sequences of Multiple Representations in Mathematics Education"

Conference Presentation at Intellectbase International Consortium, Atlanta, GA, October 13-15, 2011.
"Graphical Representations for Introductory Statistics Education"

Conference Presentation at Intellectbase International Consortium, Las Vegas, NV, December 16-18, 2010.
"Teaching Mathematics for Students with Diversified Mathematical Backgrounds"

JOURNAL **REVIEW**	Statistics and Probability Letters Intellectbase International Consortium
WORKSHOPS **& SEMINARS**	GRE Workshop Mississippi State University, Meridian, October 2019 Mississippi State University, Meridian, March 2019 Mississippi State University, Meridian, October 2018 Mississippi State University, Meridian, April 2018 Mississippi State University, Meridian, October 2017 Mississippi State University, Meridian, April 2017 Mississippi State University, Meridian, October 2016 Mississippi State University, Meridian, April 2016 Mississippi State University, Meridian, April 2015 Mississippi State University, Meridian, September 2014 Mississippi State University, Meridian, April 2014 Mississippi State University, Meridian, September 2013 Mississippi State University, Meridian, October 2012 Mississippi State University, Meridian, April 2012 Mississippi State University, Meridian, November 2011 Mississippi State University, Meridian, April 2011 Mississippi State University, Meridian, October 2010

GMAT Workshop
Mississippi State University, Meridian, February 2014
Mississippi State University, Meridian, March 2012
Mississippi State University, Meridian, September 2011

Analysis Seminar
Brown University, April 2009

Analysis and Probability Seminar
University of Connecticut, March 2009