BEIDI QIANG

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EDUCATION

University of South Carolina-Columbia   Aug 2012- Present
Ph.D in Statistics
Advisor: Dr. Edsel A. Peña

Denison University   2008 -2012
B.S. in Mathematics, magna cum laude
Second Major in Economics

Budapest Semesters in Mathematics, Budapest, Hungary   Fall 2011
Study Abroad Program
Specialized tutorial in abstract algebra and number theory

TEACHING EXPERIENCE

Instructor, Elementary Statistics   Aug 2012- May 2016
Department of Statistics, University of South Carolina   *Columbia, SC*

· Prepare lecture and lab activities for undergraduate students.
· Taught regular, evening and summer sections, with class size varying from 20 to 70.

Statistics Tutor   Aug 2012- May 2015
Department of Statistics, University of South Carolina   *Columbia, SC*

· Tutor for Elementary Statistics and Introduction to Statistical Reasoning.

Department Fellow   2011 - 2012
Department of Mathematics and Computer Science, Denison University   *Granville, OH*

· Math tutor at undergraduate Level.
· Organizing and serving to department events and activities.

RESEARCH EXPERIENCE

Research Assistant, Center for Colon Cancer Research, Biometry Core May 2016- Present
University of South Carolina   *Columbia, SC*

· Statistical consulting with CCCR researchers.
· Develop new statistical methods for colon cancer research.

Summer Scholar, Summer Research Program   Jun - Aug 2010
Denison University   *Granville, OH*

· Topic: A Combinatorial Exploration for a Kostka Matrix Identity.
· Guided by Dr. Sarah Rundell and funded by The Carl Arvid Anderson Family Fund.

HONORS AND AWARDS

National Institutes of Health (NIH) COBRE Grant   2016-Present
PI: Dr. Frank Berger. Title: Biometry Core: Center for Colon Cancer Research.

Teaching/Research Assistantship   2012-Present
Department of Statistics, University of South Carolina

Outstanding First Year Graduate Awards   2013
Department of Statistics, University of South Carolina

Chapter President, Pi Mu Epsilon - National honorary mathematics society   2011-2012
Denison University, Granville, OH

Chapter Treasure, Association for Women in Mathematics   2010-2011
Denison University, Granville, OH

The R. Stanley and Janet O. Laing Endowed Scholarship   2011-2012
Department of Economics, Denison University,Granville, OH

Forbes B. Wiley Award   2010-2011
Department of Mathematics and Computer Science, Denison University,Granville, OH

Tyree/Parajon Scholarship   2008-2012
Denison University,Granville, OH

PUBLICATIONS AND PRESENTATIONS

Improved Estimation of System Reliability with Application in Software Development
Beidi Qiang and Edsel Pena

In Analytic Methods in Systems and Software Testing, Ruggeri, F., Kenett, R. and Faltin, F. W. (eds)
To appear

Shrinkage Estimation of System Reliability
SAMSI Spring 2016, Durham, NC

Games and Decision in Reliability and Risk Workshop

Nonparametric Shrinkage Median Estimation
ENAR Spring 2016, Austin, TX

Posters: Semi-and Non-Parametric Methods

A Combinatorial Exploration for a Kostka Matrix Identity
MathFest 2010, Pittsburgh, PA

MAA Student Paper Section

CURRENT RESEARCH PROJECTS

Improved Estimation of System Reliability Through Shrinkage Idea
with Edsel Pena

Robust Simultaneous Estimator of Location
with Edsel Pena

Game Theory and the Equilibrium in Multiplayer Sequential Game
with Edsel Pena

Analysis of Calcium Imaging Data in Neural Microcircuit Selection Following Cocaine Exposure
with Edsel Pena and Pavel Ortinski

Colorectal Cancer Screening Program
with Jan M. Eberth, Annie Thibault, Renay Caldwell, Edsel Pena, Delicia LaFrance, Heather M. Brandt, and Franklin G. Berger

Modeling and Inference in Predictive Calibrations for Large Data Sets
with Stephen L. Morgan, Edsel Pena

Adaptive Optical Sensing for Big Data Chemical Calibrations
with M.L. Myrick, Stephen L. Morgan, Edsel Pena