

# Chuan-Fa Tang

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## CONTACT INFORMATION

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## EDUCATION

### **Department of Statistics, University of South Carolina, SC, USA**

PhD Candidate in Statistics **August, 2011 - present**

- Advisors: Dr. Joshua M. Tebbs and Dr. Dewei Wang

### **Department of Mathematics, National Taiwan University, Taipei, Taiwan**

Masters of Science **September, 2008 - June, 2010**

- Thesis: Study on Adaptive Model Selection through Generalized Degrees of Freedom in Nested Linear Models
- Advisor: Dr. Hung Chen

Bachelors of Science **September, 2002 - June, 2007**

## ACADEMIC EXPERIENCE

### **University of South Carolina, SC, USA**

**January, 2012 - present**

#### *Instructor of Record*

- STAT 509 Statistics for Engineers

#### *Teaching Assistant*

- STAT 509 Statistics for Engineers
- STAT 520 Time Series Analysis
- STAT 530 Applied Multivariate Statistics and Data Mining
- STAT J701 Applied Statistics II
- STAT 712 Mathematical Statistics

#### *Lab Instructor*

- STAT 201 Elementary Statistics

### **Institute of Statistical Science, Academia Sinica, Taipei, Taiwan**

#### *Research Assistant*

**August, 2010 - June, 2011**

- Study on computer-aided diagnosis of computed tomography lung cancer screening

#### *Teaching Assistant*

**August, 2010 - June, 2011**

- Biological Computing II

### **National Taiwan University, Taipei, Taiwan**

**September, 2008 - June, 2010**

#### *Teaching Assistant*

- Calculus I and II
- Introduction to Mathematical Statistics I and II
- Regression Analysis

ACADEMIC AWARD **Department of Statistics, University of South Carolina, SC, USA**  
 Outstanding First Year Graduate Student Award **September, 2011 - June, 2012**

**2015 South Carolina American Statistical Association Spring Meeting, SC, USA**  
 Best Presentation Award **March, 2015**

RESEARCH INTERESTS Order-restricted inference, empirical processes, empirical likelihood, survival analysis, mathematical statistics, image processing, kernel smoothing, model selection

MANUSCRIPTS Tang C., Wang D., and Tebbs, J. (2017) Nonparametric goodness-of-fit tests for uniform stochastic ordering. *Annals of Statistics*, in press.

MANUSCRIPTS IN PREPARATION Tang C., Wang D., and Tebbs, J. (2017+) Inference for uniform stochastic ordering with two-sample right-censored survival data.  
 Tang C., Wang D., Elbarmi H., and Tebbs, J. (2017+) Empirical likelihood based tests for exchangeability.  
 Tang C., Wang D., Elbarmi H., and Tebbs, J. (2017+) Testing for positive quadrant dependence.

RESEARCH PRESENTATIONS A comparison of nonparametric tests for uniform stochastic order in the two-sample problem. Oral presentation at Joint Statistical Meetings, Seattle, WA. August, 2015.

Distribution-free testing procedures of uniform stochastic ordering between two continuous populations. Poster presentation at SRCOS 2015 Summer Research Conference, Wilmington, NC. June, 2015.

Nonparametric tests of uniform stochastic orderings. Oral presentation at ENAR 2015 Spring Meeting, Miami, FL. March, 2015.

Nonparametric tests of uniform stochastic orderings. Oral presentation at SC-ASA Palmetto Symposium, Columbia, SC. March, 2015.

Study on adaptive model selection through generalized degrees of freedom in nested linear models. Oral presentation at the 19th South Taiwan Statistics Conference and 2010 Cross-Strait Conference on Probability and Statistics, Tainan, Taiwan. July, 2010.

COMPUTER SKILLS

- Statistical Packages: R, SAS, Matlab, C, Python, Maxima
- Document Processing: Latex, Word