

Ching-Chi Yang

Ph.D. Candidate at Department of Statistics, Pennsylvania State University
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Education

Ph.D. in Statistics, Pennsylvania State University, University Park, PA Advisor: Dennis K.J. Lin Dissertation: " Dimensional Analysis for Response Surface Methodology. " GPA:3.91/4.00	2013-
M.A. in Statistics, the University of South Florida, Tampa, FL GPA: 4.00/4.00	2012-13
M.S. in Mathematics, National Tsing Hua University, Taiwan Thesis: " Some Properties of Plane and Space Curves. "	2007-09
B.S. in Mathematics, National Cheng Kung University, Taiwan	2003-07

Publications

- Yang, C.C. and D. K. J. Lin (2018) "**Stochastic Lead Time with Order Crossover.**" *Quality Technology and Quantitative Management*. published online.
- Yang, C.C. and D. K. J. Lin. "**A Note on Selection of Basis Quantities for Dimensional Analysis.**" submitted for publication.
- Yang, C.C. and D. K. J. Lin. "**Dimensional Analysis for Response Surface Methodology.**" under preparation.
- Yang, C.C., Bao Le, and Fuqing Zhang. "**Bayesian Model Averaging for Tropical Cyclone Track Forecasts.**" under preparation.

Honors and Awards

American Society for Quality 2018 Fall Technical Conference Student Scholarship	2018
Jack and Eleanor Pettit Scholarship in Science	2016
Graduate Assistantship, Dept. of Statistics, Pennsylvania State University	2013-19
Graduate Assistantship, Dept. of Math & Stats, the University of South Florida	2012-13

Conferences and Workshops

The 62nd annual Fall Technical Conference. West Palm Beach, Florida.	2018
2017 Joint Statistical Meetings. Baltimore, Maryland.	2017
2016 Joint Statistical Meetings. Chicago, Illinois.	2016
Contributed Paper " Selecting Basis Quantities for Dimensional Analysis: A Data-Driven Approach. "	
Advanced Assimilation and Uncertainty Quantification in Big Data Research for Weather, Climate and Earth System Monitoring and Prediction. State College, Pennsylvania.	2016
The Statistical and Applied Mathematical Sciences Institute (SAMSI) Workshop: Forensic Science. Research Triangle Park, North Carolina.	2015
DAE 2015: Design and Analysis of Experiments Conference. Cary, North Carolina.	2015

Academic Appointments & Teaching Experiences

Research Assistant at Pennsylvania State University	2017
Topic: Bayesian Model Averaging in Time Series for Tropical Cyclone Forecasting.	
Graduate Instructor at Pennsylvania State University	2015-
Elementary Statistics (STAT 200)	
Teaching Assistant at Pennsylvania State University	2013-
Data Mining (557), Regression Methods (501), Applied Statistics (500), Applied Time Series Analysis (463), Applied Regression Analysis (462), Intermediate Applied Statistics (460), Probability & Stochastic Processes (418), Experimental Methods (401)	
Certificate:	
Actuarial Exam P and FM	
Penn State World Campus Online Teaching Certificate	

Consulting

Statistical Consulting Practicum I & II (STAT 580 and STAT 581)	2015
Help clients to create the design of experiments (e.g., Latin Square design), build statistical models, interpret the results, or make statistical inferences.	

Notable Coursework and Professional Skills

STAT Courses

Recent Advn Design and Analysis Computer Experiments (597), Dimension Reduction (597B), Theory of Statistical Inference (STAT 513, 514, 561), Data Mining (557), Asymptotic Tools (553), Linear Models (551), Categorical Data (544), Probability Theory (517), Stochastic Processes and Monte Carlo Methods (515), Design and Analysis of Experiments (512), Regression Models (511).

MATH Courses

Uncertainty Quantification Methods (MATH 597E), Bifurcation Theory (MAT 5932), Differential Geometry, Functional Analysis, Insurance Mathematics, Ordinary Differential Equations, Partial Differential Equations, Real Analysis.

Computer Science Courses

Statistical Computing (STAT 540), Introduction to Computer and Programming Language, Introduction to Scientific Computing.

Programming Languages (packages) sorted by proficiency level:

R (car, dplyr, geosphere, MASS, randomForest, rgl, rmarkdown, tree),
Python (Keras, NumPy, Pandas),
SAS, SPSS, Fortran.