Yuchao Liu

AWARDS

(858)405-7431 Contact 1 Microsoft Way yuchao.liu@microsoft.com Information Redmond WA, 98052 Current Data Scientist, Bing Advertisement Group, Microsoft Corporation Position EDUCATION University of California, San Diego, La Jolla, CA Ph.D., Mathematics with Statistics Concentration, Sept 2013 - Mar 2018 Thesis Title: Detection and Localization of a Submatrix: Theory, Methods and AlgorithmsCandidacy Oral Test Title: Bisecting Block Models Advisor: Ery Arias-Castro, Ph.D. School of Management, Fudan University, Shanghai, China M.S. Studies, Probablity and Mathematical Statistics, Aug 2013 Advisor: Xinsheng Zhang, Ph.D. B.S., Statistics, Jul 2011 Thesis: Semiparametric Bayesian Regression of Binary Response Model via Mixture of Dirichlet Processes Advisor: Qinfeng Xu, Ph.D. Stanford University, Stanford, CA Exchange student at Statistics Department, Summer, 2011 Research Research Assistant Mar 2014 to present Department of Mathematics, UC San Diego EXPERIENCE Supervisor: Ery Arias-Castro, Ph.D. **Publications** 1. Arias-Castro, E. and Liu, Y. "Distribution-free Detection of a Submatrix" Journal of Multivariate Analysis 156 (2017): 29-38. Papers in 1. Liu, Y. and Guo J. "Distribution-Free, Size Adaptive Submatrix Detection with PREPARATION Acceleration" 2. Liu, Y. and Arias-Castro, E. "A multiscale scan statistic for adaptive submatrix localization" Talks and 1. Southern Cal Machine Learning Symposium, USC Oct. 2017 Presentations Jan. 2017 2. Amazon Graduate Research Symposium, Seattle 3. Southern Cal Machine Learning Symposium, Caltech Nov. 2016 4. Dept of Statistics, Fudan University, Shanghai, China Sept. 2016 5. Food For Thought Seminar, UC San Diego May. 2016

2013

Student Awards — UC San Diego James B. Ax Fellowship Student Awards — Fudan University

People's Scholarship

New Graduate Student Fellowship tier 1

Class 88' Fellowship for Outstanding Graduates in Statistics

Huo's Scholarship for Stanford Exchange Students

2007–2013

2011

2011

TEACHING

Teaching Assistant

Oct 2013-Present

EXPERIENCE

Department of Mathematics, UC San Diego

Have been the teaching assistant for courses from freshman calculus to PhD level probability and statistics. Ref: Teaching Page of my website

Past Working Experience Research Intern, Mitsubishi Electric Research Lab, Cambridge, MAJun 2017 – Sept 2017

Supervisor: Emil Laftchiev, Ph.D.

Design and implement algorithms for problems in time series data analysis

Assist in preparing manuscript and publishing research results

Biostatistics Intern, BioMarin Pharmaceutical, Brisbane, CA Jun 2016 – Aug 2016

Supervisor: Gordon Sun, Ph.D. and Xinqun Yang, Ph.D.

Help solving biostatistics problems in the process of drug development and result

illustration

Assist biostatisticians with data modeling and creating effective statistics methodology

OTHER INFORMATION Programming Skills

Python, R, Julia, Minitab, LATEX, SAS, C++

Membership

Institute of Mathematical Statistics American Statistical Association

International Chinese Statistical Association

Certificates

Passed P/FM/MLC/MFE/C and all VEE courses, Society of Actuaries

Language Skills

Fluent: Chinese, English; Basic: Japanese

References

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