Yuchao Liu

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EDUCATION

Department of Mathematics, University of California San Diego   La Jolla, CA
PhD, Mathematical Statistics; GPA: 3.98/4.00   *Sept. 2013 – Mar. 2018*

School of Management, Fudan University   Shanghai, China
Bachelor of Science / Master of Science in Statistics   *Aug. 2007 – July. 2013*

EXPERIENCE

Amazon Inc.   Bellevue WA
Research Scientist   *Jul 2020 - Present*

- Flex Science team

Bing Ads Market Place Services, Microsoft Corporation   Bellevue WA
Data Scientist   *Apr 2018 - Jul 2020*

- Works on display advertising team of Bing Ads
- Design and implement machine learning algorithms, data illustration tools, and solves problems using math, statistics and machine learning

Mitsubishi Electric Research Labs   Cambridge, WA
Research Scientist Intern   *Jun 2017 - Sept 2017*

- Design and implement algorithms for problems in time series data analysis
- Assist in preparing manuscript and publishing research results

BioMarin Pharmaceutical   Brisbane, CA
Biostatistics Intern   *Jun 2016 - Aug 2016*

- Help solving biostatistics problems in the process of drug development
- Assist biostatisticians with data modeling and creating methodology

University of California San Diego   La Jolla, CA
Research and Teaching Assistant   *Sept 2013 - Mar 2018*

- Have been the teaching assistant for courses from freshman calculus to PhD level probability and statistics.
- Research project spans from statistics theory to leaning algorithms.

ACADEMIC PUBLICATIONS

- **Liu, Y.** and Arias-Castro, E. "A multiscale scan statistic for adaptive submatrix localization" ACM SIGKDD Conference on Knowledge Discovery and Data Mining, Anchorage AK, 2019.

- **Liu, Y.** and Guo J. "Distribution-Free, Size Adaptive Submatrix Detection with Acceleration" ALEA, Latin American journal of probability and mathematical statistics 17 (2020), 309-327.

- E. Laftchiev and **Liu, Y.** "Finding Multidimensional Patterns in Multidimensional Time Series" SIGKDD Workshop on Mining and Learning From Time Series, London UK, 2018.

- Arias-Castro, E. and **Liu, Y.** "Distribution-free Detection of a Submatrix" Journal of Multivariate Analysis 156 (2017): 29-38.

SKILLS

- **Programming Languages**: R, Python, C#, SQL, SAS, MATLAB

- **Languages**: Chinese(native), English(fluent), Japanese(Basic)