

Yuchao Liu

<https://www.linkedin.com/in/yuchao-liu/>
<https://nozoeli.github.io/>

Email : yuchaoliu.stat@gmail.com
Mobile : +1(858)405-7431

OBJECTIVES

- Seeking for a full time position in research, statistics, data science or machine learning utilizing my skills and experiences in statistics research and application.

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

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