# 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 associate level 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" 2019. Submitted.

- 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)