

Zhixin Zhou

Email: zhixin0825@gmail.com Phone number: 1-415-997-3702

Employment

City University of Hong Kong	
Assistant Professor	<i>2019 – present</i>
Baidu Research, Bellevue, USA	
Postdoc Researcher	<i>2018 – 2019</i>

Education

University of California, Los Angeles	
Ph.D in Statistics	<i>2015 – 2018</i>
University of California, Los Angeles	
Master of Arts in Mathematics	<i>2012 – 2015</i>
University of California, Berkeley	
Bachelor of Arts in Applied Mathematics (highest honor, GPA 3.96)	<i>2008 – 2012</i>

Research Interests and Experience

I am interested in network analysis, high-dimensional statistics, information theory, sequential design, stochastic process and efficient search in recommendation system.

Papers

- Fast neural ranking by search on graph. Shulong Tan, Zhixin Zhou, Zhaozhuo Xu and Ping Li, 2019. (WSDM 2020)
 - Efficient vector retrieval under maximum inner product. Shulong Tan, Zhixin Zhou, Zhaozhuo Xu and Ping Li, 2019. (EMNLP 2019)
 - Möbius transformation for fast inner product search on graph, Zhixin Zhou, Shulong Tan, Zhaozhuo Xu and Ping Li, 2019. (NeurIPS 2019)
 - Rate optimal Chernoff lower Bound and its application to community detection in stochastic block model, Zhixin Zhou and Ping Li, 2018. (Submitted) [[arXiv:1812.11269](https://arxiv.org/abs/1812.11269)]
 - Optimal clustering in bipartite graphs, Zhixin Zhou and Arash A. Amini, 2018. (Submitted to JMLR, under minor revision) [[arXiv:1803.06031](https://arxiv.org/abs/1803.06031)]
 - Analysis of spectral clustering algorithms for community detection: the general bipartite setting, Zhixin Zhou and Arash A. Amini, 2019. Published in JMLR. [[arXiv:1803.04547](https://arxiv.org/abs/1803.04547)]
 - Rate optimal random graph completion and subspace estimation. (Working paper)
 - Design with network data for covariate balancing. (Working paper)
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Awards and Fellowships

Dorothea Klumpke Roberts Prize in Mathematics, University of California, Berkeley. (2012)

First-Year University Fellowship, University of California, Los Angeles. (2015)

Dissertation Year Fellowship, University of California, Los Angeles. (2018)

Presentations and Talks

Social Network Clustering. City University of Hong Kong, 2/22/2019

Pseudo-Likelihood Method for Community Detection in Bipartite Graph. UCLA, 2/27/2017

Uniqueness of Hyperfinite II_1 Factor. UCLA, 12/17/2014

Teaching Experience

Teaching Assistant UCLA, 9/23/2012 - 9/15/2017

Teaching calculus, mathematical analysis, probability and statistics classes.

Programming Languages

Matlab, Python, R and SQL.
