GUAN'AO YAN

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EDUCATION

University of California, Los Angeles   *Expected 2025*

Ph.D. in Statistics
Advisor: Prof. Jingyi Jessica Li

Zhejiang University   *Sept. 2017 - Mar. 2020*

M.Sc in Probability and Mathematical Statistics
Advisor: Prof. Yi Zhang

The Chinese University of Hong Kong   *Sept. 2019 - Apr. 2020*

Research Assistant in Department of Statistics
Advisor: Prof. Zhixiang Lin

Shandong University   *Sept. 2013 - June. 2017*

B.Sc in Mathematics and Applied Mathematics
B.Ec in Economics (Minor degree)

Chinese Academy of Sciences   *Aug. 2016 - June. 2017*

Exchange Program with Academy of Mathematics and Systems Science

SELECTED HONORS & AWARDS

China National Scholarship   Chinese Government, 2018
Merit Graduate Student Award   Zhejiang University, 2018
Outstanding Student Award   Shandong University, 2014 to 2016
Hua Loo-Keng Talent Scholarship   Chinese Academy of Sciences, 2015
First Prize   China Undergraduate Mathematical Contest (Shandong Province) in Modeling, 2015

SELECTED WORK

S.Q. Chen[†], G.A. Yan[†], W.Y. Zhang, J.Z. Li, R. Jiang and Z.X. Lin (2021). RA3 is a reference-guided approach for epigenetic characterization of single cells. Nature Communications, 12(1), 1-13
† :*Equally Contributed*

J. Zhao, G.A. Yan and Y. Zhang (2021). Robust estimation and shrinkage in ultrahigh dimensional expectile regression with heavy tails and variance heterogeneity. Statistical Papers, 1-28.

J. Zhao[†], G.A. Yan[†] and Y. Zhang (2019). Semiparametric expectile regression for high-dimensional heavy-tailed and heterogeneous data. arXiv preprint. arXiv: 1908.06431. (In Submission)
† :*Equally Contributed*

PROJECTS

Integrative Analysis for Single-cell Genetic Data   *Sept. 2019 - Apr. 2020*
Research assistant (Advisor: Prof. Zhixiang Lin)   *CUHK, Hong Kong*

· Developed RA3 (Reference-guided Approach for the Analysis of single-cell chromatin Acessibility data) to analyze the single-cell chromatin accessibility sequencing (scCAS) data.

Quantitative Investment Project   *Sept. 2016 - June 2017*
Research Assistant   *CAS, Beijing*

· Used Acceptance Index (AI) to revaluate portfolio performance measures and replenished proofs to the evaluations process.

Evaluation and Simulation for Urban Transportation Networks   *May 2015 - May 2016*
Major Model Developer   *SDU, Jinan*

· Constructed a road ranking system and developed a network efficiency evaluation index.

PRESENTATIONS

Partially Linear Additive Expectile Regression with Heavy-tailed Errors in High Dimension
IMS-China, Dalian   July 2019

· The 7th International Conference on Statistics and Probability

SELECTED CAMPUS INVOLVEMENT

Teaching Assistant	International Campus, Zhejiang University	*2018 FALL & 2019 FALL*
Vice Chairman	Alumni Association, School of Mathematics	*2018 - 2019*
Vice President	Press Center, School of Mathematics	*2015 - 2016*
Core Member	Back office for BBS of Shandong University	*2015 - 2016*

SKILLS

Programming	Languages: C/C++, MATLAB, R, Python, Octave.
Language	English, Spanish and Mandarin