Yuheng Ma

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EDUCATION

RENMIN UNIVERSITY OF CHINA — Setp 2021 -
Beijing, China
Ph.D. Student in Statistics at School of Statistics
Supervisor: Professor Hanfang Yang

NANJING UNIVERSITY — Setp 2017 - June 2021
Nanjing, China
B.Sc. in Mathematics with Honor at Kuangyaming Honors School

DUKE UNIVERSITY — Aug 2019 - Dec 2019
Durham NC, U.S.
Visiting International Student

RESEARCH INTEREST

Statistical Learning Theory; General Topics in Machine Learning; Differential Privacy.

PUBLICATIONS

Ma, Yuheng et al. (2023). "Extrapolated Random Tree for Regression". In: *International Conference on Machine Learning* 99.18, pp. 2200–2300. URL: https://some-link.com.

WORKING PAPERS

Y. Cai, **Y. Ma**, H. Yang. **Adaptive Weighted Nearest Neighbor Density Estimation.**

Y. Ma, H. Yang. **Differential Privacy via Randomized Sketching.**

Y. Ma, H. Zhang, H. Yang. **Decision Tree for Private Estimation with Public Data.**

Y. Ma, S. Ye, H. Yang. **Variational Bayes for Privately Published Data.**

PROJECTS

Automatic Music Generation — GitHub
Independent study project at Duke University. Supervised by Professor Sayan Mukherjee. Paper accepted by CSSC 2020 and poster won CMS-STUDC Undergraduate Poster Competition Award.

Manifold Sampling for Optimizing Nonsmooth Nonconvex Compositions with an Additive Regularization — GitHub
Bachlor thesis.

PACKAGES

NNDensity	Nearest Neighbor Based Density Estimation Methods in Python.
ExtraTree	Extrapolated Tree for Supervised Learning in Python.
PDT	Locally Differentially Private Decision Tree in Python.
RMusicdown	Music embedding in Rmarkdown using R.

Awards

- People's Scholarship 2018, 2019
- Scholarship of National Top-notch Student Training Pilot Program in Fundamental Sciences

  2018, 2019, 2020
- Fellowship of Exchange Program of National Top-notch Student Training Pilot Program in Fundamental Sciences ($15000 stipend) 2019
- Fellowship of Exchange Program of National Top-notch Student Training Pilot Program in Fundamental Sciences ($15000 stipend) 2019
- Fellowship of Visiting International Student ($25000 stipend) 2019
- Graduate Scholarship 2021, 2022
- Best Presentation Award in 2019 Duke Datathon 2019
- Best Presentation Award in 2020 Summer School at School of Mathematical Science, Peking University 2020