

ZHENHUAN (NEYO) YANG

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Summary

A motivated, results-driven, and analytical PhD candidate working on data science. Developed multiple efficient algorithms for large scale machine learning problems. Skilled in optimization, statistics, programming, and critical thinking.

Education

State University of New York , Albany—Albany, NY Aug, 2018—now
Ph.D. candidate in Mathematics

State University of New York , Albany—Albany, NY Aug, 2016—May, 2018
M.A. in Mathematics

Sun Yat-sen University—Guangzhou, China Aug, 2012—Jun, 2016
B.A. in Mathematics & Applied Mathematics

University of California, Berkeley—Berkeley, CA Aug, 2014—Jan, 2015
Exchange program in Mathematics Department

Work Experience

Etsy DSML Organization —New York, NY May, 2021—Aug, 2021
Research Scientist Intern

- Recommendation system related research

Tencent AI Lab—Shenzhen, China May, 2019—Aug, 2019
R&D Intern

- Cooperated with colleagues on model acceleration for pix2pixHD-based 2D Broadcaster Synthesis.
- My work on image generation method is patented with id CN110796594A

Albany Medical School—Albany, NY May, 2018—Aug, 2018
Graduate Assistant

- Developed auto epileptic seizure detection algorithm using Fourier transform and SVM

Atmospheric Sciences Research Center—Albany, NY May, 2017—Aug, 2017
Graduate Assistant

- Developed online optimization algorithm for PV-ESS energy system scheduling

Publications

Zhenhuan Yang, Yiming Ying, Qilong Min. *Online optimization for residential PV-ESS energy system scheduling*. Mathematical Foundations of Computing, 2019 2(1)

Zhenhuan Yang, Wei Shen, Yiming Ying, Xiaoming Yuan. *Stochastic AUC Optimization with General Loss*. Communications on Pure and Applied Analysis, 2020 19(8)

Wei Shen, **Zhenhuan Yang**, Yiming Ying, Xiaoming Yuan. *Stability and Optimization Error of Stochastic Gradient Descent for Pairwise Learning*. Analysis and Applications, 2020 18(5)

Zhenhuan Yang, Baojian Zhou, Yiming Ying. *Stochastic Hard Thresholding Algorithms for AUC Maximization*. 20th IEEE International Conference on Data Mining (ICDM 2020)

Zhenhuan Yang, Yunwen Lei, Yiming Ying. *Stability and Differential Privacy of Stochastic Gradient Descent for Pairwise Learning with Non-Smooth Loss*. The 24th International Conference on Artificial Intelligence and Statistics (AISTATS 2021)

Zhenhuan Yang*, Yunwen Lei*, Tianbao Yang, Yiming Ying. *Stability and Generalization of Stochastic Gradient Methods for Minimax Problems*. 2021 International Conference on Machine Learning (ICML 2021). (* Equal Contribution)

Puyu Wang, **Zhenhuan Yang**, Yunwen Lei, Yiming Ying, Hai Zhang. *Differentially Private Empirical Risk Minimization for AUC Maximization*, Neurocomputing, 2021.

Zhenhuan Yang*, Yunwen Lei*, Tianbao Yang, Yiming Ying. *Simple Stochastic and Online Gradient Descent Algorithms for Pairwise Learning*. To appear on NeurIPS 2021. (* Equal Contribution)

Patent

Zhenhuan Yang, Shen Li, Haozhi Huang Yonggen Ling, Wei Liu. *Image generation method, apparatus and device*. CN110796594A

Teaching Experience

AMAT 100: PreCalculus—University at Albany, SUNY Spring 2019, Fall 2019

AMAT 108: Elementary Statistics—University at Albany, SUNY Summer 2020

Academic Service

External Reviewer—2017, 2019 IEEE International Conference on Big Data

Reviewer—The 24th International Conference on Artificial Intelligence and Statistics (AISTATS 2021)

Program Committee—The 30th International Joint Conference on Artificial Intelligence (IJCAI-21)

Honors and Awards

Mathematics Contest in Modeling Meritorious Winner Feb, 2013

Contemporary Undergraduate Mathematical Contest in Modeling Second Prize Aug, 2013

Dean's List and Honored Graduate

Jun, 2016

Skills and Others

- **Programming:** MATLAB, Pytorch, Git, SAS, SQL
- **Language:** English (professional), Mandarin (native), Cantonese (bilingual)