

## ZHENHUAN (NEYO) YANG

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### Summary

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

### Education

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**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*

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

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

### Work Experience

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

- Cooperated with colleagues on model acceleration for pix2pixHD-based 2D Broadcaster Synthesis.

**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

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**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)

## Patent

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

## Teaching Experience

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

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

## Academic Service

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**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

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**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

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