ZHAN XUEYING

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Education

B.S. **Sun Yat-sen University** *Overall GPA*: 3.95/5.0, *Ranking*: 21/434   Aug. 2013 - Jun. 2017

School of Data and Computer Science, Department of Mobile Information Engineering.

Ph.D. **City University of Hong Kong** *Overall GPA*: 3.75/4.3   Sep. 2017 - Jun. 2023

College of Science and Engineering, Department of Computer Science.

Research Interests

Bio-image Analysis; Active Learning; Machine Learning; Crowd-sourcing; Sentiment Analysis.

Publications

- Yaowei Wang, Yanghui Rao, **Xueying Zhan**, et al. Sentiment and emotion classification over noisy labels[J]. Knowledge-Based Systems, 2016, 111: 207-216. [SOURCE]

- **Xueying Zhan**, Yaowei Wang, Yanghui Rao, Qing Li, et al. A network framework for noisy label aggregation in social media[C]. *Proceedings of the 55th Annual Meeting of the Association for Computational Linguistics* (ACL Volume 2). 2017. [SOURCE]

- **Xueying Zhan**, Yaowei Wang, Yanghui Rao, Qing Li. Learning from Multi-annotator Data: A Noise-aware Classification Framework[J]. ACM Transactions on Information Systems (TOIS), 2019, 37(2): 26.[SOURCE]

- **Xueying Zhan**, Huan Liu, Qing Li, Antoni B. Chan. A Comparative Survey: Benchmarking for Pool-based Active Learning[C]. Accepted by IJCAI 2021.[SOURCE]

- **Xueying Zhan**, Qing Li, Antoni B. Chan. Multiple-criteria Based Active Learning with Fixed-size Determinantal Point Processes. Accepted by ICML@Workshop 2021 (SubSetML).[SOURCE]

- **Xueying Zhan**, Yaowei Wang, Antoni B. Chan. Asymptotic Optimality for Active Learning Processes[C]//The 38th Conference on Uncertainty in Artificial Intelligence (UAI). 2022.[SOURCE]

- **Xueying Zhan**, Qingzhong Wang, Kuanhao-huang, Haoyi Xiong, Dejing Dou, Antoni B. Chan. A Comparative Survey of Deep Active Learning. Accepted by Neurips@Workshop 2021 (Human-in-the-Loop).[SOURCE]

- **Xueying Zhan**, Zeyu Dai, Qingzhong Wang, Haoyi Xiong, Qing Li, Dejing Dou, Antoni B. Chan. Pareto Optimization for Active Learning under Out-of-Distribution Data Scenarios. Accepted by Transactions on Machine Learning Research [SOURCE]

Experiences

- Research team member, **Sun Yat-sen University**, School of Data and Computer Science. Supervisor: Dr. Yanghui Rao.   Jan. 2015 - Jun. 2017

- PhD, **City University of Hong Kong**, Department of Computer Science. Supervisor: Prof. Antoni Bert Chan and Prof. Qing Li.   Sep. 2017 - Jun. 2023

- Visiting Scholar, **Tsinghua University**, Department of Computer Science and Technology. Supervisor: Prof. Jie Tang.   Sep. 2020 - Jun. 2021

- Research Intern, **Baidu Research, Baidu Inc.**, Big Data Lab.   Oct. 2021 - Mar. 2023

- Postdoc, **Carnegie Mellon University**, Computational Biology Department.   Jul. 2023 - Present

Research Projects

– Cryo-ET data analysis.

– Label de-noising/aggregation for crowd-sourcing data.

– Multiple-criteria Pool-based Active Learning.

– Pool-based (Deep) Active Learning Survey Project.

– Unbiased Active Learning.

– Active Learning Under Out-of-Distribution Data Scenarios.

Open-sourced Software

– Deep Active Learning Plus ($DeepAL+$), PyTorch. [SOURCE]

Honors, Awards & Scholarships

– Outstanding Intern. Baidu Research. (Jan. 2022)

– Research Tuition Scholarship, City University of Hong Kong. (Sep. 2019 - Aug. 2020)

– Outstanding Academic Performance Award, City University of Hong Kong. (Aug. 2019)

– Postgraduate Studentship, City University of Hong Kong. (Sep. 2017 - Aug. 2021)

– Excellent Graduate, Sun Yat-sen University. (Jun. 2017)

– The First Prize Scholarship (Sep. 2015), 5% of department. The Second Prize Scholarship (Sep. 2016), 10% of department. The Third Prize Scholarship (Sep. 2014), 30% of department. School of Data and Computer Science, Sun Yat-sen University.

– The Zhuhai Coca-Cola Scholarship for Outstanding Students (5/446 students). School of Data and Computer Science, Sun Yat-sen University.

Teaching Experiences

• Sun Yat-sen University, school of Data and Computer Science, **Teaching Assistant**

– Digital System Design (for BSc) (Sep. 2015 - Jan. 2016)
– Operating System (for BSc) (Feb. 2016 - Jun. 2016)
– Principle of Computer Organization (for BSc) (Feb. 2016 - Jun. 2016)
– Digital Signal Processing (for BSc) (Feb. 2016 - Jun. 2016)
– Artificial Intelligence (for BSc) (Sep. 2016 - Jan. 2017)

• City University of Hong Kong, department of Computer Science, **Teaching Assistant**

– CS1102 Introduction to Comp Studies (for BSc) (Sep. 2017 - Dec. 2017 & Jan. 2018 - Jun. 2018)
– CS4487 Machine Learning (for BSc) (Sep. 2018 - Dec. 2018)
– CS6487 Topics in Machine Learning (for MSc) (Jan. 2019 - Jun. 2019)
– CS5487 Machine Learning (for MSc) (Sep. 2019 - Dec. 2019)
– CS5489 Machine Learning: Algorit&Apns (for MSc) (Jan. 2020 - Jun. 2020)

Service

– Neurips 2021, 2022, 2023 as reviewer

– ICML 2021, 2022, 2023, as reviewer

– ICLR 2021, 2022, 2023, 2024 as reviewer

– AISTATS 2022, 2023, 2024, as reviewer

– UAI 2023, as reviewer

– CVPR 2023, 2024, as reviewer

– ICCV 2023, as reviewer

– WSDM 2024, as PC (Program Committee) member

– IEEE Transactions on Emerging Topics in Computational Intelligence (journal), as reviewer

– Machine Learning, (journal), as reviewer

– Transactions on Machine Learning Research (journal), as reviewer