

Zhi-ning Liu

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EDUCATION	University of Illinois Urbana-Champaign , United States	2019 – 2022
	Ph.D. in Computer Science (Department of Computer Science) <ul style="list-style-type: none">▪ Advisor: Prof. Hanghang Tong	
	Jilin University , China	2019 – 2022
	M.S. in Computer Science (School of Artificial Intelligence) <ul style="list-style-type: none">▪ Advisor: Prof. Yi Chang	
	Jilin University , China	2015 – 2019
	B.S. in Computer Science (School of Computer Science and Technology) <ul style="list-style-type: none">▪ Tang Ao-Qing honor class, GPA: 3.55/4.0, 88.96/100	
PUBLICATIONS	Towards Inter-class and Intra-class Imbalance in Class-imbalanced Learning	2021
	Zhining Liu , et al. (arXiv:2111.12791)	
	IMBENS: Ensemble Class-imbalanced Learning in Python	2021
	Zhining Liu , et al. (arXiv:2111.12776)	
	Long-term Continuous Spine Treatment Outcome Forecasting	2021
	Z. Liu* , H. Ye*, W. Cao, A. Amiri, J. Bian, Y. Chang, J. D. Lurie, J. Weinstein, T. Liu. (under review)	
	MESA: Boost Ensemble Imbalanced Learning with MEta-Sampler	2020
	Zhining Liu , Pengfei Wei, Jing Jiang, Wei Cao, Jiang Bian and Yi Chang. (NeurIPS'20)	
	Self-paced Ensemble for Highly Imbalanced Massive Data Classification	2020
	Zhining Liu , Wei Cao, Z.F. Gao, J. Bian, H.C. Chen, Yi Chang and Tie-Yan Liu. (ICDE'20)	
EXPERIENCE	Microsoft Research Asia , <i>Machine Learning Group</i>	2018 – 2019
	<ul style="list-style-type: none">▪ Research Intern (Mentor: Dr. Jiang Bian and Wei Cao)▪ Researched on large-scale highly-imbalanced classification in intelligent logistics. Proposed an algorithm that was adopted by a leading Chinese logistics company and has served millions of users.	
OPEN-SOURCE PROJECTS	(1,500+ stars on Github by Aug 2022)	
	IMBENS: class-imbalanced ensemble learning in Python	130+ stars, 18k+ downloads [Github]
	SPE: general & effective ensemble learning framework	180+ stars, 10k+ downloads [Github]
	MESA: unbiased learning with meta-knowledge-powered resampler	80+ stars [Github]
	Awesome Imbalanced Learning	800+ stars [Github]
	Awesome Machine Learning Resources	200+ stars [Github]
SELECTED HONORS & SCHOLARSHIPS	National Scholarship by Ministry of Education	2019 & 2020
	Academic Performance Scholarship by Jilin University	2019 - 2021
	Undergraduate Research Scholarship (20 out of 400) by Jilin University	2018
	Outstanding Student Project Scholarship (2 out of 84) by Jilin University	2018
	National Endeavor Scholarship (Top 5%) by Ministry of Education	2017
	Outstanding Student Representative (For student service) by Jilin University	2016 - 2019
PROFESSIONAL & CAMPUS ACTIVITIES	Serve as Conference/Journal Reviewer <ul style="list-style-type: none">▪ Conferences: SIGKDD, ICDM, IROS▪ Journals: TKDE, Trans. on Cybernetics, Neurocomputing	
	Serve as Conference Volunteer <ul style="list-style-type: none">▪ Conferences: ACM SIGIR 2020 (for conference publicity)	
	Serve as Student Representative <ul style="list-style-type: none">▪ I served my class as one of two representatives and was responsible for organizing student activities.	
MISCELLANEOUS	<ul style="list-style-type: none">▪ I also run an account on Zhihu, where I have 3,000+ followers and 700,000+ reads.▪ <i>Mandarin</i>: native speaker; <i>English</i>: fluent (IELTS:7.0 (2017) TOFEL:109 (2021))	

[CV compiled on 2022-09-01]