

Zhi-ning Liu

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EDUCATION	Jilin University , Changchun, China 2019 – 2022 M.S. in Computer Science (School of Artificial Intelligence) <ul style="list-style-type: none">▪ Advisor: Prof. Yi Chang
	Jilin University , Changchun, 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, top 1% at the matriculation▪ GPA: 3.55/4.0, 88.96/100
PUBLICATIONS	Towards Inter-class and Intra-class Imbalance in Class-imbalanced Learning 2021 <i>Zhining Liu</i> , et al. (arXiv:2111.12791)
	IMBENS: Ensemble Class-imbalanced Learning in Python 2021 <i>Zhining Liu</i> , et al. (arXiv:2111.12776)
	Long-term Continuous Spine Treatment Outcome Forecasting 2021 <i>Zhining Liu*</i> , Hangting Ye*, et al. (under review)
	MESA: Boost Ensemble Imbalanced Learning with MEta-Sampler 2020 <i>Zhining Liu</i> , Pengfei Wei, Jing Jiang, Wei Cao, Jiang Bian and Yi Chang. (NeurIPS'20)
	Self-paced Ensemble for Highly Imbalanced Massive Data Classification 2020 <i>Zhining Liu</i> , 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 Dr. 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.
	Jilin University , <i>Laboratory of Cybernetic Intelligence</i> 2017 – 2018 <ul style="list-style-type: none">▪ Research Assistant (Advisor: Prof. Hongwei Zhao)▪ Designed and built an ground system for UAV auto-recharging with vision-based landing & docking.
OPEN-SOURCE PROJECTS	(1,100+ stars on Github by Jan 2022)
	IMBENS: class-imbalanced ensemble learning in Python. (70+ stars, 10,000+ downloads) 2021
	SPE: general & effective ensemble learning framework. (160+ stars, 8,600+ downloads) 2020
	MESA: unbiased learning with meta-knowledge-powered resampler. (70+ stars) 2020
	AwesomeIL: a curated list across all imbalanced/long-tailed learning topics (650+ stars) 2020
	Awesome2ML: a curated list across all machine learning topics (170+ stars) 2021
SELECTED HONORS & SCHOLARSHIPS	National Scholarship (1/40) by Ministry of Education 2019 & 2020
	Academic Performance Scholarship by Jilin University 2019 & 2020
	Master's Excellence Scholarship, First Prize (Top 5%) by Jilin University 2020
	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: ACM SIGKDD, IEEE ICDM▪ Journals: IEEE TKDE, IEEE Trans. on Cybernetics, Elsevier 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 1,600+ followers and 320,000+ reads.▪ <i>Mandarin</i>: native speaker; <i>English</i>: fluent (IELTS:7.0 (2017) TOFEL:109 (2021))

[CV compiled on 2022-02-14]