Zhi-ning Liu

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EDUCATION	**Jilin University**, Changchun, China	2019 – 2022
	M.S. in Computer Science (School of Artificial Intelligence)	
	▪ Advisor: <u>Prof. Yi Chang</u>	
	Jilin University, Changchun, China	2015 – 2019
	B.S. in Computer Science (School of Computer Science and Technology)	
	▪ 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
	Zhining Liu, et al. (under review)	
	IMBENS: Ensemble Class-imbalanced Learning in Python	2021
	Zhining Liu, et al. (preprint)	
	Long-term Continuous Spine Treatment Outcome Forecasting	2021
	Zhining Liu*, Hangting Ye*, et al. (ongoing)	
	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**, *Machine Learning Group*	2018 – 2019
	▪ Research Intern (Mentor: <u>Dr. Jiang Bian</u> and <u>Dr. Wei Cao</u>)	
	▪ 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, *Laboratory of Cybernetic Intelligence*	2017 – 2018
	▪ 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, 9,700+ 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, ¥20,000 CNY) by Ministry of Education	2019 & 2020
	Academic Performance Scholarship (¥8,000 CNY) by Jilin University	2019 & 2020
	Master's Excellence Scholarship, First Prize (Top 5%) by Jilin University	2020
	Undergraduate Research Scholarship (20 out of 400, ¥5,000 CNY) by Jilin University	2018
	Outstanding Student Project Scholarship (2 out of 84, ¥5,000 CNY) by Jilin University	2018
	National Endeavor Scholarship (Top 5%, ¥5,000 CNY) by Ministry of Education	2017
	Outstanding Student Representative (For student service) by Jilin University	2016 - 2019

PROFESSIONAL & CAMPUS ACTIVITIES	**Serve as Conference/Journal Reviewer**
	▪ Conferences: ACM SIGKDD, IEEE ICDM
	▪ Journals: IEEE TKDE, IEEE Trans. on Cybernetics, Elsevier Neurocomputing
	Serve as Conference Volunteer
	▪ Conferences: ACM SIGIR 2020 (for conference publicity)
	Serve as Student Representative
	▪ I served my class as one of two representatives and was responsible for organizing student activities.

MISCELLANEOUS	▪ I also run an account on **Zhihu**, where I have **1,600+** followers and **320,000+** reads.
	▪ *Mandarin*: native speaker; *English*: fluent (**IELTS:7.0** (2017) **TOFEL:109** (2021))

[CV compiled on 2022-01-28]