

# Zhi-ning Liu

1699 Qianjin Street, Changchun, Jilin Province, 130012, China

✉ [Contact:zhining.liu@outlook.com](mailto:zhining.liu@outlook.com) 🌐 [Homepage:zhiningliu.com](http://Homepage:zhiningliu.com) 🐙 [Github:ZhiningLiu1998](https://github.com/ZhiningLiu1998) 🎓 [Google Scholar](#) [in LinkedIn](#)

EDUCATION	<b>Jilin University</b> , Changchun, China M.S. in Computer Science (School of Artificial Intelligence) <ul style="list-style-type: none"><li>▪ Advisor: Prof. Yi Chang</li></ul>	2019 – 2022
	<b>Jilin University</b> , Changchun, China B.S. in Computer Science (School of Computer Science and Technology) <ul style="list-style-type: none"><li>▪ Tang Ao-Qing honor class, top 1% at the matriculation</li><li>▪ GPA: 3.55/4.0, 88.96/100</li></ul>	2015 – 2019
PUBLICATIONS	<b>Towards Inter-class and Intra-class Imbalance in Class-imbalanced Learning</b> <i>Zhining Liu</i> , et al. ( <a href="#">arXiv:2111.12791</a> )	2021
	<b>IMBENS: Ensemble Class-imbalanced Learning in Python</b> <i>Zhining Liu</i> , et al. ( <a href="#">arXiv:2111.12776</a> )	2021
	<b>Long-term Continuous Spine Treatment Outcome Forecasting</b> <i>Zhining Liu*</i> , Hangting Ye*, et al. (under review)	2021
	<b>MESA: Boost Ensemble Imbalanced Learning with MEta-SAmpler</b> <i>Zhining Liu</i> , Pengfei Wei, Jing Jiang, Wei Cao, Jiang Bian and Yi Chang. ( <a href="#">NeurIPS'20</a> )	2020
	<b>Self-paced Ensemble for Highly Imbalanced Massive Data Classification</b> <i>Zhining Liu</i> , Wei Cao, Z.F. Gao, J Bian, H.C. Chen, Yi Chang and Tie-Yan Liu. ( <a href="#">ICDE'20</a> )	2020
EXPERIENCE	<b>Microsoft Research Asia</b> , <i>Machine Learning Group</i> <ul style="list-style-type: none"><li>▪ Research Intern (Mentor: <a href="#">Dr. Jiang Bian</a> and <a href="#">Dr. Wei Cao</a>)</li><li>▪ 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.</li></ul>	2018 – 2019
	<b>Jilin University</b> , <i>Laboratory of Cybernetic Intelligence</i> <ul style="list-style-type: none"><li>▪ Research Assistant (Advisor: Prof. Hongwei Zhao)</li><li>▪ Designed and built an ground system for UAV auto-recharging with vision-based landing &amp; docking.</li></ul>	2017 – 2018
OPEN-SOURCE PROJECTS	(1,200+ stars on Github by March 2022)	
	<b>IMBENS: class-imbalanced ensemble learning in Python.</b>	90+ stars, 12k+ downloads
	<b>SPE: general &amp; effective ensemble learning framework.</b>	170+ stars, 10k+ downloads
	<b>MESA: unbiased learning with meta-knowledge-powered resampler.</b>	80+ stars
	<b>AwesomeIL: a curated list across all imbalanced/long-tailed learning topics</b>	700+ stars
	<b>Awesome2ML: a curated list across all machine learning topics</b>	200+ stars
SELECTED HONORS & SCHOLARSHIPS	<b>National Scholarship</b> (1/40) by Ministry of Education	2019 & 2020
	<b>Academic Performance Scholarship</b> by Jilin University	2019 & 2020
	<b>Master's Excellence Scholarship, First Prize</b> (Top 5%) by Jilin University	2020
	<b>Undergraduate Research Scholarship</b> (20 out of 400) by Jilin University	2018
	<b>Outstanding Student Project Scholarship</b> (2 out of 84) by Jilin University	2018
	<b>National Endeavor Scholarship</b> (Top 5%) by Ministry of Education	2017
	<b>Outstanding Student Representative</b> (For student service) by Jilin University	2016 - 2019
PROFESSIONAL & CAMPUS ACTIVITIES	<b>Serve as Conference/Journal Reviewer</b> <ul style="list-style-type: none"><li>▪ Conferences: SIGKDD, ICDM, IROS</li><li>▪ Journals: TKDE, Trans. on Cybernetics, Neurocomputing</li></ul>	
	<b>Serve as Conference Volunteer</b> <ul style="list-style-type: none"><li>▪ Conferences: ACM SIGIR 2020 (for conference publicity)</li></ul>	
	<b>Serve as Student Representative</b> <ul style="list-style-type: none"><li>▪ I served my class as one of two representatives and was responsible for organizing student activities.</li></ul>	
MISCELLANEOUS	<ul style="list-style-type: none"><li>▪ I also run an account on <a href="#">Zhihu</a>, where I have <b>2,100+</b> followers and <b>450,000+</b> reads.</li><li>▪ <i>Mandarin</i>: native speaker; <i>English</i>: fluent (<b>IELTS:7.0</b> (2017) <b>TOFEL:109</b> (2021))</li></ul>	

[CV compiled on 2022-03-31]