Zhi-ning Liu

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

✉ zhining.liu@outlook.com ⊕ Homepage:zhiningliu.com ⌂ Github:ZhiningLiu1998 ☛ Google Scholar in Linkedin ☎ +86 176-1010-6607

EDUCATION	School of Artificial Intelligence, **Jilin University**, P.R.China	Sep 2019 – Jul 2022
	M.Sc. in Computer Science	
	▪ Advisor: Prof. Yi Chang	
	School of Computer Science, **Jilin University**, P.R.China	Sep 2015 – Jul 2019
	B.Sc. in Computer Science	
	▪ Major: Tang Ao-Qing honor program in Computer Science	
	▪ GPA: 3.55/4.0, 88.96/100	

EXPERIENCE	*Machine Learning Group*, **Microsoft Research Asia**	Sep 2018 – Jun 2019

▪ **Research Intern** (Mentor: Dr. Jiang Bian and Dr. Wei Cao)
▪ My work mainly focuses on massive highly imbalance classification and its application on intelligent logistic. We proposed a versatile ensemble learning framework that can significantly boost canonical classifiers' performance on highly imbalanced data while being computationally efficient.

Laboratory of Cybernetic Intelligence, **Jilin University**　　　　May 2017 – May 2018
▪ **Undergraduate Research Assistant**
▪ We built a prototype of auto-recharge system for multi-rotor UAV, including a ground station with its control program and a vision system which was used to navigate the precision landing procedure.
▪ I served as the Program Leader of a 4-person group. This project finally won the outstanding project award (2 out of 84 in the Computer Science Department) and a total of ¥15,000 CNY support.

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 work)
"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)

PROJECTS

(800+ stars on Github by Nov 2021)
IMBENS: class-imbalanced ensemble learning in Python. (40+ stars, 7,000+ downloads)　2021
Awesome-Imbalanced-Learning: list of awesome papers, codes, and libraries. (600+ stars)　2020
SPE: general & effective ensemble learning framework. (150+ stars, 6,800+ downloads)　2020
MESA: learning with meta-knowledge-powered resampler. (60+ stars)　2020

SELECTED HONORS & SCHOLARSHIPS

National Scholarship (1 out of 40, ¥20,000 CNY) by Ministry of Education　2019 & 2020
Outstanding Student Leader Scholarship (For student service) by Jilin University　2016 & 2019
Undergraduate Research Scholarship (20 out of 400, ¥5,000 CNY) by Jilin University　2018
National Endeavor Scholarship (Top 5%, ¥5,000 CNY) by Ministry of Education　2017

PROFESSIONAL & CAMPUS ACTIVITIES

Serve as Conference/Journal Reviewer
I serve(d) as a reviewer for top-tier computer science conferences/journals:
▪ 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 Class President
▪ I served my class as one of two presidents and was responsible for organizing student activities.

MISCELLANEOUS
▪ I also run an account on **Zhihu**, where I have 1,500+ followers and 260,000+ reads.
▪ *Mandarin*: native speaker; *English*: fluent (**IELTS:7.0** (2017) **TOFEL:109** (2021))

[CV compiled on 2021-11-25]