Haowen Lin

PERSONAL CONTACT

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RESEARCH INTEREST

Computer Vision, Robust Machine Learning, Federated Learning, Data Mining,
Spatial/Temporal Data Forecasting, Efficient Deep Neural Networks

EDUCATION

University of Southern California, U.S.A. Aug. 2019 – Current
Ph.D. in Computer Science, under supervision of Prof. Cyrus Shahabi

University of Southern California, U.S.A. Aug. 2015 – May 2019
B.S in Computer Science, Discovery Scholar, Summa Cum Laude Honor GPA:3.92

PUBLICATIONS

Haowen Lin, Jian Lou, Li Xiong, Cyrus Shahabi. "Integer-arithmetic-only Certified Robustness for Quantized Neural Networks." International Conference on Computer Vision [ICCV 2021] **[arXiv]**

Haowen Lin, Jian Lou, Li Xiong, Cyrus Shahabi. "SemiFed: Semi-supervised Federated Learning with Consistency and Pseudo-Labeling." Under review **[arXiv]**

Haowen Lin, Yao-Yi Chiang. "SRC:Automatic Extraction of Phrase-level Map labels from Historical Maps." International Conference on Advances in Geographic Information Systems. [SIGSPATIAL] 2018. **[pdf]**

Haowen Lin, Yao-Yi Chiang. "An Uncertainty Aware Method for Geographic Data Conflation". In Proceedings of the 7th ACM SIGSPATIAL International Workshop on Analytics for Big Geospatial Data. 2018. **[pdf]**

Haowen Lin, Yaping Chen, and Yushu Yang. "Cluster Analysis of Automobile Innovative Users Based on Interactive Innovation Value." Mathematical Problems in Engineering 2018. **[pdf]**

EXPERIENCE

Spatial Sciences Institute (USC) Sep. 2017 – Jan 2019
Research Assistant
- Worked on spatial geo-spatial data analytics on historical maps

AWARDS

Annenberg Graduate Ph.D. Fellowship 2019 – 2022

1st Student Research Competition in ACM SIGSPATIAL 2017
- Awarded to top 1 research project based on the quality of the research work and oral presentation at the conference.

2nd at Expedition Hack 2017
- Developed a web-based traveling schedule program in Hackthon at Berkeley

ACADEMIC SERVICES & TEACHING

External reviewer for PAKDD, IEEE Transactions on Knowledge and Data Engineering
Teaching Assistant for Introduction to Artificial Intellige, C++ programing, Software Engineering

SKILLS

Languages : Python, C++, Java, HTML/CSS, SQL (PostgreSQL, MySQL)
Framework :PyTorch, TensorFlow
Coursework : Computer Vision, Discrete Optimization, Convex Optimization, Time series forecasting, Algorithm, Geospatial Information Management