Education

University of California, Los Angeles

Ph.D. in Computer Science Advisor: Prof. Yizhou Sun Peking University

B.Sc. in Computer Science

Los Angeles, USA Sep. 2018 – Present

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Beijing, China Sep. 2014 – Jun. 2018

Research Interests

My research focus on utilizing deep learning to learn representation and capture dependency of structured data, with their applications in natural language processing and graph mining.

Selected Publications

- 1. Layer-Dependent Importance Sampling for Training Deep and Large Graph Convolutional Networks
 - o Difan Zou*, Ziniu Hu* (equal contribution), Yewen Wang, Song Jiang, Yizhou Sun, Quanquan Gu
 - o In Proceedings of Conference on Neural Information Processing Systems. NeurIPS 2019.
- 2. Few-Shot Representation Learning for Out-Of-Vocabulary Words
 - o Ziniu Hu, Ting Chen, Kai-Wei Chang, Yizhou Sun
 - o In Proceedings of Conference of the Association for Computational Linguistics. ACL 2019.
- 3. Unsupervised Pre-Training of Graph Convolutional Networks
 - o Ziniu Hu, Changjun Fan, Ting Chen, Kai-Wei Chang, Yizhou Sun
 - o ICLR 2019 Workshop: Representation Learning on Graphs and Manifolds.
- 4. Unbiased LambdaMART: An Unbiased Pairwise Learning-to-Rank Algorithm
 - o Ziniu Hu, Yang Wang, Qu Peng, Hang Li
 - In Proceedings of the World Wide Web Conference. WWW 2019.
- 5. Listening to Chaotic Whispers: Deep Learning Framework for News-oriented Stock Trend Prediction
 - o Ziniu Hu, Weiqing Liu, Jiang Bian, Xuanzhe Liu, Tie-Yan Liu
 - In Proceedings of International Conference on Web Search and Data Mining. WSDM 2018.
- 6. Emoji-Powered Representation Learning for Cross-Lingual Sentiment Classification
 - o Zhenpeng Chen, Sheng Shen, Ziniu Hu, Xuan Lu, Qiaozhu Mei, Xuanzhe Liu
 - o In Proceedings of the World Wide Web Conference. WWW 2019 (Best Long Paper Award).
- 7. LinkRadar: Assisting the Analysis of Inter-app Page Links via Transfer Learning
 - o Diandian Gu, **Ziniu Hu**, Yun Ma
 - In Proceedings of International Conference on Information and Knowledge Management. CIKM 2019.
- 8. Aladdin: Automating Release of Deep-Link APIs on Android
 - o Yun Ma, **Ziniu Hu**, Yunxin Liu, Tao Xie, Xuanzhe Liu
 - In Proceedings of the World Wide Web Conference. WWW 2018.

Research Experience

University of California, Los Angeles

Scalable Analytics Institute (ScAi)

Graduate Research Assistant

Advisor: Prof. Yizhou SunWorked on 'Few-Shot Representation Learning for OOV Words', published a paper on ACL'19.

o Worked on 'Large-Scale GNN Training via Efficient Sampling', published a paper on NeurIPS'19.

Microsoft Research Redmond

Microsoft Academic Graph

Jun. 2019 - Sep. 2019

Sep. 2018 - Present

Mentor: Dr. Yuxiao Dong

Research Intern

• Working on 'Pre-training GNN on Billion Scale Heterogeneous Network'.

Bytedance (Toutiao) AI Lab

Research Intern

NLP Group *Feb.* 2018 – *Aug.* 2018

o Mentor: Dr. Hang Li

- Worked on 'Unbiased Pairwise Learning-to-rank'.
- Proposed a general framework of unbiased learning-to-rank in the pairwise setting, *Unbiased LambdaMart*. Achieved 2.64% enhancement of Toutiao's first position click ratio. Published a paper on WWW'19.

Microsoft Research Asia

Machine Learning Group

Feb. 2017 – Aug. 2017

Research Intern

- o Mentor: Dr. Jiang Bian
- Worked on 'News-based Stock Trend Prediction'.
- Use online financial news to predict Chinese stock trend. Proposed a hybrid attention RNN architecture, and self-paced learning mechanism to deal with various noise. Published a paper on WSDM'18.

Peking University

DAAS (Data, Analytics, Application, System) Lab

Undergraduate Research Assistant

Sep. 2015 - Jun. 2018

- o Advisor: Prof. Xuanzhe Liu and Prof. Qiaozhu Mei
- Worked on research projects including emoji-based cross-lingual sentiment analysis, GUI design automation, Android deep link generation and user navigation behavior analysis.
- Published papers on WWW'19, HotMobile'19, CIKM'19 and WWW'18.

Teaching Experience

2019 Fall: Teaching Assistant for UCLA CS 146: Introduction to Machine Learning

2019 Spring: Give a lecture for UCLA CS 168: Computational Methods for Medical Imaging

Hornors and Awards

2019: WWW 2019 Best Long Paper Award

2018: PhD Fellowship of University of California, Los Angeles

2018: Ranked 8th in CIKM-Cup 2018: Cross-Lingual Short-Text Matching of Question Pairs.

2017: SenseTime Scholarship

2017: SIGIR Student Travel Grant

2017: Outstanding Undergraduate Research Award of Peking University

2015: May Forth Scholarship of Peking University

2014: First Prize of Chinese Physics Olympiad, Zhejiang District

Services

• Program Committee: CIKM 2019, SoCal-NLP 2019

Reviewer: ICDE 2020, KDD 2019, KDD 2018