

# Xiusi Chen

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## RESEARCH INTERESTS

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Data Mining, Machine Learning, Natural Language Processing, Reinforcement Learning Applications

## EDUCATION

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**University of California, Los Angeles**

2018 - present

Ph.D. candidate in Computer Science

- **Fields:** Data Mining (Graph Mining and Text Mining), Machine Learning (Reinforcement Learning Applications)
- **Thesis Committee:** Wei Wang (Chair), Yizhou Sun, Kai-Wei Chang, Jeffrey Brantingham.

**Peking University**

2015 - 2018

M.S. in Computer Science

- **Fields:** Data Mining, Recommendation, Database
- **Thesis Committee:** Jun Gao (Chair), Bin Cui, Ming Zhang, and Shuai Ma.

**Peking University**

2011 - 2015

B.S. in Computer Science

- **Thesis:** The Design and Implementation of Indexes on Distributed Big Graph Processing Framework
- **Advisor:** Prof. Jun Gao

## PROFESSIONAL EXPERIENCES

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**Amazon Search (formerly Amazon A9)**

6/2022 - 9/2022

Applied Scientist Intern

**NEC Laboratories America**

6/2019 - 9/2019

Research Intern

**Alibaba DAMO Academy**

7/2016 - 12/2016

Research Intern

## PUBLICATIONS

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**Xiusi Chen**, Jyun-Yu Jiang and Wei Wang, *Scalable Graph Representation Learning via Locality-Sensitive Hashing*. In Proceedings of The 31<sup>st</sup> ACM International Conference on Information and Knowledge Management (**CIKM**), 2022.

**Xiusi Chen**, Jyun-Yu Jiang, Kun Jin, Yichao Zhou, Mingyan Liu, Jefferey Brantingham and Wei Wang, *RELIABLE: Offline Reinforcement Learning for Tactical Strategies in Professional Basketball Games*. In Proceedings of The 31<sup>st</sup> ACM International Conference on Information and Knowledge Management (**CIKM**), 2022.

Yu Zhang\*, Shweta Garg\*, Yu Meng, **Xiusi Chen** and Jiawei Han, *MotifClass: Weakly Supervised Text Classification with Higher-order Metadata Information*. In Proceedings of the Fifteenth ACM International Conference on Web Search and Data Mining (**WSDM**), 2022.

Yichao Zhou, Jyun-Yu Jiang, **Xiusi Chen** and Wei Wang. *#StayHome or #Marathon? Social Media Enhanced Pandemic Surveillance on Spatial-temporal Dynamic Graphs*. In Proceedings of The 30<sup>th</sup> ACM International Conference on Information and Knowledge Management (**CIKM**), 2021.

Jyun-Yu Jiang, Yichao Zhou, **Xiusi Chen**, Yan-Ru Jhou, Liqi Zhao, Sabrina Liu, Po-Chun Yang, Jule Ahmar, Wei Wang. *COVID-19 Surveiller: Toward a Robust and Effective Pandemic Surveillance System based on Social Media Mining*. In Philosophical Transactions of the Royal Society A (**Philosophical Transactions A**), 2022.

Jinliang Deng, **Xiusi Chen**, Renhe Jiang, Xuan Song, and Ivor W. Tsang. *ST-Norm: Spatial and Temporal Normalization for Multi-variate Time Series Forecasting*. In Proceedings of 27<sup>th</sup> ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (**KDD**), 2021.

Seungbae Kim, **Xiusi Chen**, Jyun-Yu Jiang, Jinyoung Han, and Wei Wang. *Evaluating audience loyalty and authenticity in influencer marketing via multi-task multi-relational learning*. In The 15th International AAAI Conference on Web and Social Media (**ICWSM**), 2021.

Jinliang Deng, **Xiusi Chen**, Zipei Fan, Renhe Jiang, Xuan Song, and Ivor W. Tsang. 2021. *The Pulse of Urban Transport: Exploring the Co-evolving Pattern for Spatio-temporal Forecasting*. In ACM Transactions on Knowledge Discovery in Data (TKDD), 2021.

Yu Zhang, **Xiusi Chen**, Yu Meng, Jiawei Han, *Hierarchical Metadata-Aware Document Categorization under Weak Supervision*. In Proceedings of the Fourteenth ACM International Conference on Web Search and Data Mining (WSDM), 2021.

Ruirui Li, Xian Wu, **Xiusi Chen**, Wei Wang, *Self-Attentive Few-Shot Learning for New User Recommendation in Location-based Social Networks*. In Proceedings of The Web Conference 2020 (WWW), 2020. Oral.

Fangbo Tao\*, Chao Zhang\*, **Xiusi Chen**, Meng Jiang, Tim Hanratty, Lance Kaplan and Jiawei Han, *Doc2Cube: Automated Document Allocation to Text Cube via Dimension-Aware Joint Embedding*. In Proceedings of the 17<sup>th</sup> IEEE International Conference on Data Mining (ICDM), 2018. Oral.

Chao Zhang, Fangbo Tao, **Xiusi Chen**, Jiaming Shen, Meng Jiang, Brian Sadler, Michelle Vanni and Jiawei Han, *TaxonGen: Constructing Topical Concept Taxonomy by Adaptive Term Embedding and Clustering*. In Proceedings of 24<sup>th</sup> ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD), 2018. Oral.

Chang Zhou, Jinze Bai, Junshuai Song, Xiaofei Liu, Zhengchao Zhao, **Xiusi Chen**, and Jun Gao, *ATRank: An Attention-Based User Behavior Modeling Framework for Recommendation*. In Proceedings of the 32<sup>nd</sup> AAAI Conference on Artificial Intelligence(AAAI), 2018. Oral.

**Xiusi Chen**, Qimu Zheng, Xinxi Jiang and Jun Gao, *The Design and Implementation of Index on Distributed Big Graph Systems* In Proceedings of the 34<sup>th</sup> National Database Conference(NDBC), 2017. Oral.

**Xiusi Chen**, Xiaoyu Li, and Jun Gao, *Demo of a Semi-Supervised Method Based System to Detect Advertisements from QA pairs* In Proceedings of the 33<sup>rd</sup> National Database Conference(NDBC), 2016. Oral.

## PREPRINTS AND UNDER REVIEW

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**Xiusi Chen**, Yu Zhang, Jinliang Deng, Jyun-Yu Jiang and Wei Wang, *GOTTA: Generative Few-shot Question Answering by Prompt-based Cloze Data Augmentation*. under review.

**Xiusi Chen**, Wenchao Yu, Wei Cheng, Haifeng Chen and Wei Wang, *Knowledge Graph Alignment with Uncertainty Embedding*. In progress.

Jinliang Deng, **Xiusi Chen**, Renhe Jiang, Xuan Song and Ivor W. Tsang, *A Multi-view Multi-task Learning Framework for Multi-variate Time Series Forecasting*. under review.

Jinliang Deng, Du Yin, Yi Yang, **Xiusi Chen**, Jiewen Deng, Renhe Jiang, Xuan Song, Ivor W. Tsang, *Multi-variate Time Series Forecasting with Spatial-temporal Decomposition*. under review.

## ACADEMIC SERVICE

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### Conference Program Committee

KDD'20,22; WSDM'22-23; SSL@WWW'21;  
NeurIPS'22; ICLR'22; AAAI'21-23; IJCAI-ECAP'22;  
ACL'22.

### Conference Subreviewer

KDD'18, CIKM'18, WISE'18, IJCAI'19

### Journal Reviewer

IEEE Transactions on Big Data (TBD).

### Student Volunteer

KDD'20.

## HONORS AND AWARDS

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**SIGIR Student Travel Grant**  
*ACM SIGIR*

Sept. 2022

**SIGIR Student Travel Grant**  
*ACM SIGIR*

Sept. 2021

**Leo KoGuan Fellowship**  
*top 2%, Peking University*

Sept. 2016

**Merit Student**  
*top 5%, Peking University*

Sept. 2016

**Graduate Student Academic Fellowship**  
*Peking University*

Sept. 2015, 2016, 2017

**3<sup>rd</sup> Place of 17<sup>th</sup> Chinese University Basketball Association (CUBA) Championships, Beijing Division**  
*On behalf of Peking University, Federation of University Sports of China*

Oct. 2014

**6<sup>th</sup> Place of the High School Students Swimming Contest of Hunan Province, 100M Breaststroke**  
*The Education Department of Hunan Province*

Sept. 2010

## TEACHING EXPERIENCE

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**CS 245: Big Data Analysis**  
*Teaching Associate, University of California, Los Angeles*

Fall 2020

**CS 143: Database Systems**  
*Teaching Assistant, University of California, Los Angeles*

Spring 2020

**CS 31: Introduction to Computer Science**  
*Teaching Assistant, University of California, Los Angeles*

Fall 2019, Winter 2020

**Introduction to Database Systems (Honor Track)**  
*Teaching Assistant, Peking University*

Spring 2016

**Database Systems Principles and Technologies**  
*Teaching Assistant, Peking University*

Fall 2016