

# Chuxu Zhang

Assistant Professor  
Department of Computer Science  
Brandeis University

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## Research Interests

**General:** Artificial Intelligence, Machine Learning, Data Mining

**Focus:** Graph Learning, Multi-modal Learning, Resource-efficient Learning, Trustworthy Learning

**Application:** Public Health, Illicit Activity Intervention, Social and Information Networks, Recommender Systems, Interdisciplinary Problems

## Professional Appointments

**Tenure-Track Assistant Professor**, Department of Computer Science  
Brandeis University, MA, USA, 07/2020 - Present

Research Intern, Knowledge Technologies and Intelligent Experiences Group  
Microsoft Research, WA, USA, Summer 2019

Research Intern, Data Science Group  
NEC Labs America, NJ, USA, Summer 2018

## Education

**Ph.D. in Computer Science and Engineering**, University of Notre Dame, IN, USA, 05/2020

Advisor: Nitesh V. Chawla, Frank M. Freimann Professor, ACM/IEEE Fellow

Outstanding Graduate Research Assistant Award (Top PhD student in CSE department)

Eli J. and Helen Shaheen Graduate Student Award Nomination (Only one in the CSE department)

M.S. in Computer Science, Rutgers University, NJ, USA, 05/2017

B.E. in Electronic Information Engineering, University of Electronic Science and Technology of China, Chengdu, China, 07/2013

## Honors and Awards

**AI 2000 Most Influential Scholar Award Honorable Mention in Data Mining**, AMiner, 2023

**New Faculty Highlight**, The AAAI Conference on Artificial Intelligence, 2023

Best Paper Runner-up Award, DCAA Workshop, AAAI, 2023

Top Reviewer Award, The Conference on Neural Information Processing Systems (NeurIPS), 2022

GSAS Dean's Mentoring Award Nomination, Brandeis University, 2022

**Best Paper Award**, The ACM International Conference on Information and Knowledge Management

(CIKM), 2021

Provost Research Award, Brandeis University, 2021

Eli J. and Helen Shaheen Graduate Student Award Nomination, University of Notre Dame, 2021

**Outstanding Graduate Research Assistant Award**, University of Notre Dame, 2020

Best Paper Award Candidate, The ACM Web Conference (WWW), 2019

Best Student Paper Award, The APWeb/WAIM Joint International Conference on Web and Big Data (APWeb/WAIM), 2016

## Publications

**By 4/2023, Papers: 70+, Citations: 3200+** (Google Scholar Link).

My name is highlighted in bold, underlined authors are students advised/mentored by me.

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[Publications Since Tenure-Track Position]

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[72] (**KDD'23**) Q. Yang, C. Ma, Q. Zhang, X. Gao, **C. Zhang**, X. Zhang, Counterfactual Learning on Heterogeneous Graphs with Greedy Perturbation, The ACM SIGKDD Conference on Knowledge Discovery and Data Mining, 2023

[71] (**ICML'23**) C. Zhang, C. Huang, Y. Tian, Q. Wen, Z. Ouyang, Y. Li, Y. Ye, **C. Zhang**, When Sparsity Meets Contrastive Models: Less Graph Data Can Bring Better Class-Balanced Representations, The International Conference on Machine Learning, 2023

[70] (**IJCAI'23**) Z. Guo, K. Guo, B. Nan, Y. Tian, Y. Ma, O. Wiest, X. Zhang, W. Wang, **C. Zhang**, N. Chawla, Graph-based Molecular Representation Learning, The International Joint Conference on Artificial Intelligence, 2023

[69] (**WWW'23**) Z. Liu, C. Zhang, Y. Tian, E. Zhang, C. Huang, Y. Ye, **C. Zhang**, Fair Graph Representation Learning via Diverse Mixture of Experts, The Web Conference, 2023

[68] (**WWW'23**) W. Wei, C. Huang, L. Xia, **C. Zhang**, Multi-Modal Adversarial Self-Supervised Learning for Recommendation, The Web Conference, 2023

[67] (**ICLR'23**) M. Ju, T. Zhao, Q. Wen, W. Yu, N. Shah, Y. Ye, **C. Zhang**, Multi-task Self-supervised Graph Neural Networks Enable Stronger Task Generalization, The International Conference on Learning Representations, 2023

[66] (**ICLR'23**) C. Zhang, Y. Tian, M. Ju, Z. Liu, **C. Zhang**, Chasing All-Round Graph Representation Robustness: Model, Training, and Optimization, The International Conference on Learning Representations, 2023

[65] (**ICLR'23**) Y. Tian, **C. Zhang**, Z. Guo, X. Zhang, N. Chawla, Learning MLPs on Graphs: A Unified View of Effectiveness, Robustness, and Efficiency, The International Conference on Learning Representations, 2023 (**Spotlight**)

[64] (**AAAI'23**) M. Ju, Y. Fan, **C. Zhang**, Y. Ye, Let Graph be the Go Board: Gradient-free Node Injection Attack for Graph Neural Networks via Reinforcement Learning, The AAAI Conference on Artificial Intelligence, 2023

[63] (**AAAI'23**) Q. Zhang, S. Pei, Q. Yang, **C. Zhang**, N. Chawla, X. Zhang, Cross-domain Few-shot Graph Classification with a Reinforced Task Coordinator, The AAAI Conference on Artificial Intelligence, 2023

[62] (**AAAI'23**) Z. Guo, C. Zhang, Y. Fan, Y. Tian, **C. Zhang**, N. Chawla, Boosting Graph Neural Net-

works via Adaptive Knowledge Distillation, The AAAI Conference on Artificial Intelligence, 2023

[61] (**AAAI'23**) Y. Tian, K. Dong, C. Zhang, **C. Zhang**, N. Chawla, Heterogeneous Graph Masked Autoencoders, The AAAI Conference on Artificial Intelligence, 2023

[60] (**WSDM'23**) J. Zhao, Q. Wen, M. Ju, Y. Ye, **C. Zhang**, Self-Supervised Graph Structure Refinement for Graph Neural Networks, ACM International Conference on Web Search and Data Mining, 2023

[59] (**WSDM'23**) Q. Yang, C. Ma, Q. Zhang, X. Gao, **C. Zhang**, X. Zhang, Interpretable Research Interest Shift Detection with Temporal Heterogeneous Graphs, The ACM International Conference on Web Search and Data Mining, 2023

[58] (**NeurIPS'22**) Y. Qian, C. Zhang, Y. Zhang, Q. Wen, Y. Ye, **C. Zhang**, Co-Modality Imbalanced Graph Contrastive Learning, The Conference on Neural Information Processing Systems, 2022

[57] (**NeurIPS'22**) H. Yue, C. Zhang, **C. Zhang**, H. Liu, Label-invariant Augmentation for Semi-Supervised Graph Classification, The Conference on Neural Information Processing Systems, 2022

[56] (**EMNLP'22**) M. Ju, W. Yu, T. Zhao, **C. Zhang**, Y. Ye, Knowledge Graph Enhanced Passage Reader for Open-domain Question Answering, The Conference on Empirical Methods in Natural Language Processing Findings, 2022

[55] (**ICDM'22**) J. Wu, C. Zhang, Z. Liu, E. Zhang, S. Wilson, **C. Zhang**, GraphBERT: Bridging Graph and Text for Malicious Behavior Detection on Social Media, The IEEE International Conference on Data Mining, 2022

[54] (**CIKM'22**) C. Zhang, C. Huang, Y. Li, X. Zhang, Y. Ye, **C. Zhang**, Look Twice as Much as You Say: Scene Graph Contrastive Learning for Self-Supervised Image Caption Generation, The ACM International Conference on Information and Knowledge Management, 2022

[53] (**CIKM'22**) Y. Qian, Y. Zhang, Y. Ye, **C. Zhang**, Malicious Repositories Detection with Adversarial Heterogeneous Graph Contrastive Learning, The ACM International Conference on Information and Knowledge Management, 2022

[52] (**CIKM'22**) L. Yu, S. Pei, F. Zhu, L. Li, J. Zhou, **C. Zhang**, X. Zhang, A Biased Sampling Method for Imbalanced Personalized Ranking, The ACM International Conference on Information and Knowledge Management, 2022

[51] M. Saebi, S. Kreig, **C. Zhang**, M. Jiang, T. Kajdanowicz, N. Chawla, Heterogeneous Relational Reasoning in Knowledge Graphs with Reinforcement Learning, Information Fusion, 2022

[50] (**KDD'22**) S. Wang, K. Ding, **C. Zhang**, C. Chen, J. Li, Task-Adaptive Few-shot Node Classification, The ACM SIGKDD Conference on Knowledge Discovery and Data Mining, 2022

[49] (**KDD'22**) Q. Wen, Z. Ouyang, J. Zhang, Y. Qian, Y. Ye, **C. Zhang**, Disentangled Dynamic Heterogeneous Graph Learning for Opioid Overdose Prediction, The ACM SIGKDD Conference on Knowledge Discovery and Data Mining, 2022

[48] (**KDD'22**) Y. Qian, Y. Zhang, Q. Wen, Y. Ye, **C. Zhang**, Repository Embedding via Heterogeneous Graph Adversarial Contrastive Learning, The ACM SIGKDD Conference on Knowledge Discovery and Data Mining, 2022

[47] (**KDD'22**) Q. Zhang, X. Wu, Q. Yang, **C. Zhang**, X. Zhang, Few-shot Heterogeneous Graph Learning via Cross-domain Knowledge Transfer, The ACM SIGKDD Conference on Knowledge Discovery and Data Mining, 2022

[46] (**KDD'22**) L. Xia, C. Huang, **C. Zhang**, Self-Augmented Hypergraph Transformer for Recommender Systems, The ACM SIGKDD Conference on Knowledge Discovery and Data Mining, 2022

[45] (**IJCAI'22**) Y. Tian, **C. Zhang**, Z. Guo, Y. Ma, R. Metoyer, N. Chawla, Multi-modal Recipe Rep-

resentation Learning with Graph Neural Networks, The International Joint Conference on Artificial Intelligence, 2022

[44] (IJCAI'22) Y. Tian, **C. Zhang**, Z. Guo, C. Huang, R. Metoyer, N. Chawla, RecipeRec: A Heterogeneous Graph Learning Model for Recipe Recommendation, The International Joint Conference on Artificial Intelligence, 2022

[43] (IJCAI'22) **C. Zhang**, K. Ding, J. Li, X. Zhang, Y. Ye, N. Chawla, H. Liu, Few-Shot Learning on Graphs, The International Joint Conference on Artificial Intelligence, 2022

[42] (IJCAI'22) J. Zhang, A. Kuo, J. Zhao, Q. Wen, E. Winstanley, **C. Zhang**, Y. Ye, Rx-refill Graph Neural Network to Reduce Drug Overprescribing Risks, The International Joint Conference on Artificial Intelligence, 2022 (Best Paper Track)

[41] (SDM'22) Y. Zhang, Y. Qian, Y. Ye, **C. Zhang**, Adapting Distilled Knowledge for Few-shot Relation Reasoning over Knowledge Graphs, The SIAM International Conference on Data Mining, 2022

[40] (SDM'22) Y. Fan, M. Ju, **C. Zhang**, Y. Ye, Heterogeneous Temporal Graph Neural Network, The SIAM International Conference on Data Mining, 2022

[39] (SDM'22) Q. Zhang, X. Wu, Q. Yang, **C. Zhang**, X. Zhang, Graph Meta-learning over Heterogeneous Graphs, The SIAM International Conference on Data Mining, 2022

[38] (AAAI'22) L. Yu, S. Pei, L. Ding, J. Zhou, L. Long, **C. Zhang**, X. Zhang, Self-Augmented Graph Contrastive Learning, The AAAI Conference on Artificial Intelligence, 2022

[37] Y. Tian, **C. Zhang**, R. Metoyer, N. Chawla, Recipe Recommendation with Hierarchical Graph Attention Network, The Frontiers in Big Data, 2022

[36] (WSDM'22) Q. Yang, Q. Zhang, **C. Zhang**, X. Zhang, Interpretable Relation Learning on Heterogeneous Graphs, The ACM International Conference on Web Search and Data Mining, 2022

[35] (NeurIPS'21) Y. Qian, Y. Zhang, Y. Ye, **C. Zhang**, Distilling Meta Knowledge on Heterogeneous Graph for Illicit Drug Trafficker Detection on Social Media, The Conference on Neural Information Processing Systems, 2021

[34] (CIKM'21) J. Zhang, A. Kuo, J. Zhao, Q. Wen, E. Winstanley, **C. Zhang**, Y. Ye, RxNet: Rx-refill Graph Neural Network for Overprescribing Detection, The ACM International Conference on Information and Knowledge Management, 2021 (**Best Paper Award, 1 out of 1251 submissions**)

[33] (CIKM'21) Y. Tian, **C. Zhang**, R. Metoyer, N. Chawla, Recipe Representation Learning with Networks, The ACM The International Conference on Information and Knowledge Management, 2021

[32] (TOIS) **C. Zhang**, J. Kiseleva, S. Jauhar, R. White, Grounded Task Prioritization with Context-Aware Sequential Ranking, The ACM Transactions on Information Systems, 2021

[31] (TOIS) **C. Zhang**, H. Yao, L. Yu, C. Huang, D. Song, H. Chen, M. Jiang, N. Chawla, Inductive Contextual Relation Learning for Personalization, The ACM Transactions on Information Systems, 2021

[30] (ECML/PKDD'21) J. Zhao, Q. Wen, S. Sun, Y. Ye, **C. Zhang**, Multi-View Self-Supervised Heterogeneous Graph Embedding, The European Conference on Machine Learning and Principles and Practice of Knowledge, 2021

[29] (IJCAI'21) Y. Qian, Y. Zhang, Y. Ye, **C. Zhang**, Adapting Meta Knowledge with Heterogeneous Information Network for COVID-19 Themed Malicious Repository Detection, The International Joint Conference on Artificial Intelligence, 2021

[28] (WWW'21) Z. Guo, **C. Zhang**, W. Yu, J. Herr, O. Wiest, M. Jiang, N. Chawla, Few-Shot Graph

- [27] (**EMNLP'20**) **C. Zhang**, L. Yu, M. Saebi, M. Jiang, N. Chawla, Few-Shot Multi-Hop Relation Reasoning over Knowledge Bases, The Conference on Empirical Methods in Natural Language Processing Findings, 2020
- [26] (**CIKM'20**) **Z. Guo**, W. Yu, **C. Zhang**, M. Jiang, N. Chawla, GraSeq: Graph and Sequence Fusion Learning for Molecular Property Prediction, The ACM International Conference on Information and Knowledge Management, 2020
- [25] (**IJCAI'20**) C. Huang, **C. Zhang**, P. Dai, L. Bo, Cross-Interaction Hierarchical Attention Networks for Urban Anomaly Prediction, The International Joint Conference on Artificial Intelligence, 2020
- [24] (**WWW'20**) X. Wu, C. Huang, **C. Zhang**, N. Chawla, Hierarchically Structured Transformer Networks for Fine-Grained Spatial Event Forecasting, The Web Conference, 2020
- [23] (**AAAI'20**) **C. Zhang**, H. Yao, C. Huang, M. Jiang, Z. Li, N. Chawla, Few-Shot Knowledge Graph Completion, The AAAI Conference on Artificial Intelligence, 2020
- [22] (**AAAI'20**) H. Yao, **C. Zhang**, W. Yin, M. Jiang, S. Wang, J. Huang, N. Chawla, Z. Li, Graph Few-shot Learning via Knowledge Transfer, The AAAI Conference on Artificial Intelligence, 2020
- [21] (**KDD'19**) **C. Zhang**, D. Song, C. Huang, A. Swami, N. Chawla, Heterogeneous Graph Neural Network, The ACM SIGKDD Conference on Knowledge Discovery and Data Mining, 2019 (**Most Influential Papers of KDD by Google Scholar, Citations: 850+**)
- [20] (**KDD'19**) C. Huang, X. Wu, X. Zhang, **C. Zhang**, J. Zhao, D. Yin, N. Chawla, Online Purchase Prediction via Multi-Scale Modeling of Behavior Dynamics, The ACM SIGKDD Conference on Knowledge Discovery and Data Mining, 2019
- [19] (**WWW'19**) C. Huang, **C. Zhang**, J. Zhao, X. Wu, D. Yin, N. Chawla, MiST: A Multiview and Multimodal Spatial-Temporal Learning Framework for Citywide Abnormal Event Forecasting, The Web Conference, 2019 (**Best Paper Award Candidate**)
- [18] (**CIKM'19**) C. Huang, **C. Zhang**, P. Dai, L. Bo, Deep Dynamic Fusion Network for Traffic Accident Forecasting, The ACM International Conference on Information and Knowledge Management, 2019
- [17] (**WSDM'19**) **C. Zhang**, A. Swami, N. Chawla, SHNE: Representation Learning for Semantic-Associated Heterogeneous Networks, The ACM International Conference on Web Search and Data Mining, 2019
- [16] (**AAAI'19**) **C. Zhang**, D. Song, Y. Chen, X. Feng, C. Lumezanu, W. Cheng, J. Ni, B. Zong, H. Chen, N. Chawla, A Deep Neural Network for Unsupervised Anomaly Detection and Diagnosis in Multivariate Time Series Data, The AAAI Conference on Artificial Intelligence, 2019 (**Most Influential Papers of AAAI by Google Scholar, Citations: 510+**)
- [15] (**AAAI'19**) L. Yu, **C. Zhang**, S. Liang, X. Zhang, Multi-order Attentive Ranking Model for Sequential Recommendation, The AAAI Conference on Artificial Intelligence, 2019
- [14] (**IJCAI'18**) **C. Zhang**, L. Yu, X. Zhang, N. Chawla, Task-Guided and Semantic-Aware Ranking for Academic Author-Paper Correlation Inference, The International Joint Conference on Artificial Intelligence, 2018
- [13] (**WWW'18**) **C. Zhang**, C. Huang, L. Yu, X. Zhang, N. Chawla, Camel: Content-Aware and Metapath Augmented Metric Learning for Author Identification, The Web Conference, 2018
- [12] (**AAAI'18**) L. Yu, **C. Zhang**, S. Pei, G. Sun, X. Zhang, WalkRanker: A Unified Pairwise Ranking Model with Multiple Relations for Item Recommendation, The AAAI Conference on Artificial Intelli-

gence, 2018

[11] (**SDM'17**) **C. Zhang**, L. Yu, Y. Wang, C. Shah, X. Zhang, Collaborative User Network Embedding for Social Recommender Systems, The SIAM International Conference on Data Mining, 2017 (**Most Influential Papers of SDM by Google Scholar**)

[10] (**BigData'17**) **C. Zhang**, L. Yu, X. Zhang, N. Chawla, Joint Matrix Factorization and Implicit Walk Integrative Learning for Recommendation, The IEEE International Conference on Big Data, 2017

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—[Publications Before PhD Study]—

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[9] (**APWeb-WAIM'17**) **C. Zhang**, L. Yu, C. Liu, Z.K. Zhang, T. Zhou, A Community-aware Approach to Minimizing Dissemination in Graphs, The APWeb-WAIM Joint International Conference on Web and Big Data, 2017

[8] (**APWeb-WAIM'17**) **C. Zhang**, C. Liu, L. Yu, , Z.K. Zhang, T. Zhou, Identifying the academic rising stars via pairwise citation increment ranking, The APWeb-WAIM Joint International Conference on Web and Big Data, 2017

[7] (**APWeb-WAIM'16**) **C. Zhang**, L. Yu, J. LU, T. Zhou, Z.K. Zhang, AdaWIRL: A Novel Bayesian Ranking Approach for Personal Big-Hit Paper Prediction, The APWeb-WAIM Joint International Conference on Web and Big Data, 2016

[6] (**APWeb-WAIM'16**) L. Yu, G. Zhou, **C. Zhang**, J. Huang, C. Liu, Z.K. Zhang, Rankmbpr: Rank-aware Mutual Bayesian Personalized Ranking for Item Recommendation, The APWeb-WAIM Joint International Conference on Web and Big Data, 2016 (**Best Student Paper Award, 1 out of 249 submissions**)

[5] Z.K. Zhang, C. Liu, X.X. Zhan, X. LU, **C.X. Zhang**, Y.C. Zhang, Dynamics of Information Diffusion and Its Applications on Complex Networks, Physics Reports, 2016

[4] Z.K. Zhang, **C.X. Zhang**, X. Han, C. Liu, Emergence of Blind Areas in Information Spreading, PLoS ONE, 2014

[3] Y. Sun, C. Liu, **C.X. Zhang**, Z.K. Zhang, Epidemic Spreading on Weighted Complex Networks, Physics Letters A, 2014

[2] **C.X. Zhang**, Z.K. Zhang, L. Yu, C. Liu, H. Liu, X. Yan, Information Filtering via Collaborative User Clustering Modeling, Physica A, 2014

[1] **C.X. Zhang**, Z.K. Zhang, C. Liu, An Evolving Model of Online Bipartite Networks, Physica A, 2013

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—[Tutorial and Workshop Papers]—

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[13] (**AAAI'23-DCAA**) C. Zhang, C. Huang, Y. Tian, Q. Wen, Z. Ouyang, Y. Li, Y. Ye, **C. Zhang**, When Sparsity Meets Contrastive Models: Less Graph Data Can Bring Better Class-Balanced Representations, The AAAI DCAA Workshop, 2023 (**Best Paper Runner-Up Award**)

[12] (**AAAI'23-NFH**) **C. Zhang** Towards Societal Impact of AI, The AAAI Conference on Artificial Intelligence, New Faculty Highlights, 2023

[11] (**NeurIPS'22-W**) Q. Wen, Z. Ouyang, C. Zhang, Y. Qian, Y. Ye, **C. Zhang**, Adversarial Cross-View Disentangled Graph Contrastive Learning, The NeurIPS New Frontiers in Graph Learning Workshop, 2022

[10] (**NeurIPS'22-W**) Y. Tian, **C. Zhang**, Z. Guo, X. Zhang, N. Chawla, NOSMOG: Learning Noise-robust and Structure-aware MLPs on Graphs, The NeurIPS New Frontiers in Graph Learning Workshop, 2022

[9] (**NeurIPS'22-W**) C. Zhang, C. Huang, Y. Tian, Q. Wen, Z. Ouyang, Y. Li, Y. Ye, **C. Zhang**, Diving into Unified Data-Model Sparsity for Class-Imbalanced Graph Representation Learning, The NeurIPS New

Frontiers in Graph Learning Workshop, 2022

- [8] (NeurIPS'22-W) C. Zhang, H. Liu, J. Li, Y. Ye, **C. Zhang**, Contrastive Graph Few-Shot Learning, The NeurIPS New Frontiers in Graph Learning Workshop, 2022
- [7] (KDD'22-T) K. Ding, **C. Zhang**, J. Tang, N. Chawla, H. Liu, Towards Graph Minimally-Supervised Learning, The ACM SIGKDD Conference on Knowledge Discovery and Data Mining, Tutorial, 2022
- [6] (KDD'21-T) **C. Zhang**, J. Li, M. Jiang Data Efficient Learning on Graphs, The ACM SIGKDD Conference on Knowledge Discovery and Data Mining, Tutorial, 2021
- [5] (KDD'20-T) **C. Zhang**, M. Jiang, X. Zhang, Y. Ye, N. Chawla, Multi-modal Network Representation Learning: Methods and Applications, The ACM SIGKDD Conference on Knowledge Discovery and Data Mining, Tutorial, 2020
- [4] (WSDM'20-DC) **C. Zhang**, Learning from Heterogeneous Networks: Methods and Applications, The ACM International Conference on Web Search and Data Mining, Doctoral Consortium, 2020
- [3] (NeurIPS'19-W) H. Yao, **C. Zhang**, Y. Wei, M. Jiang, S. Wang, J. Huang, N. Chawla, Z. Li, Graph Few-shot Learning via Knowledge Transfer, The NeurIPS Graph Representation Learning Workshop, 2019
- [2] (KDD'15-W) **C. Zhang**, T. Eliassi-Rad, Minimizing Dissemination in a Population While Maintaining its Community Structure, The ACM SIGKDD Workshop on Population Informatics for Big Data, 2015
- [1] (ICDM'15-W) G. Zhou, L. Yu, **C. Zhang**, C. Liu, Z.K. Zhang, J. Zhang, A Novel Approach for Generating Personalized Mention List on Micro-Blogging System, The ICDM Workshop, 2015

## PhD Students

Chunhui Zhang, Computer Science, Brandeis University

- Period: Fall 2021 - Present
- First-author Papers: CIKM'22, ICLR'23, WWW'23, ICML'23

Jiazheng Li, Computer Science, Brandeis University

- Period: Fall 2022 - Present

Xiangchi Yan, Computer Science, Brandeis University

- Period: Spring 2023 - Present

Jiele Wu, Computer Science, Brandeis University

- Period: Fall 2021 - Spring 2022 (move to National University of Singapore due to visa issue)
- First-author Papers: ICDM'22

## PhD Committee Member

Yiyue Qian, Computer Science and Engineering, University of Notre Dame, 2024 Spring

Peizhao Li, Computer Science, Brandeis University, 2024 Spring

Yue Han, Computer Science, Brandeis University, 2024 Spring

Shifu Hou, Computer and Data Sciences, Case Western Reserve University, 2022 Summer

Yiming Zhang, Computer and Data Sciences, Case Western Reserve University, 2022 Fall

Daheng Wang, Computer Science and Engineering, University of Notre Dame, 2021 Summer

## Teaching Experience

Instructor, Brandeis University, Waltham, MA, USA

- Graph Mining, Spring 2023
- Deep Learning, Fall 2022 (Student Rating: **4.0/5.0**)
- Deep Learning, Spring 2022 (Student Rating: **4.5/5.0**)
- Graph Mining, Fall 2021 (Student Rating: **4.6/5.0**)
- Deep Learning, Spring 2021 (Student Rating: **4.2/5.0**)
- Advanced Topics in Graph Mining (Seminar), Fall 2020

Guest Lecturer

- Advanced Topics in Efficient Deep Learning, NC State, Fall 2022
- Advanced Topics in Machine Learning, University of Notre Dame, Fall 2019

## Professional Service

Conference (Senior) Program Committee Member

- The Conference on Neural Information Processing Systems (NeurIPS): 2023, 2022, 2021, 2020
- The International Conference on Machine Learning (ICML): 2023, 2022, 2021
- The International Conference on Learning Representations (ICLR): 2023, 2022, 2021, 2020
- The ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD): 2023 (SPC), 2022 (SPC), 2021, 2020
- The ACM Web Conference (WWW): 2023, 2022, 2021
- The AAAI Conference on Artificial Intelligence (AAAI): 2023 (SPC), 2022 (SPC), 2021 (SPC), 2020, 2019
- The International Joint Conference on Artificial Intelligence (IJCAI): 2023 (SPC), 2022, 2021 (SPC), 2020
- The ACM International Conference on Web Search and Data Mining (WSDM): 2023 (SPC), 2022
- The ACM International Conference on Information and Knowledge Management (CIKM): 2023 (SPC), 2022 (SPC), 2021, 2019
- The IEEE International Conference on Data Mining (ICDM): 2022, 2021, 2020, 2019
- The SIAM International Conference on Data Mining (SDM): 2023 (SPC), 2022, 2021, 2020

Journal Editor

- Frontiers in Big Data (Review Editor, 2022 - Present)
- Discover Data (Associate Editor, 2022 - Present)
- Big Data (Associate Editor, 2020 - Present)

Journal Reviewer



- IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)
- IEEE Transactions on Knowledge and Data Engineering (TKDE)
- Transactions on Machine Learning Research (TMLR)
- ACM Transactions on Information Systems (TOIS)
- IEEE Transactions on Neural Networks and Learning Systems (TNNLS)
- ACM Transactions on Knowledge Discovery from Data (TKDD)
- IEEE Transactions on Big Data (TBD)