

Jiyang Bai

CONTACT INFORMATION

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RESEARCH INTERESTS

- **Graph and Deep Learning:**
Graph Neural Network; Graph Representation Learning; Stochastic Optimization Algorithm; Approximate Nearest Neighbor Search;
- **Graph Data Mining:**
Graph Similarity Search; Graph Summarization; Graph Ordering;

EDUCATION

Florida State University, Tallahassee, FL, USA Aug 2018 to May 2024
Ph.D., Computer Science

- *Supervisor:* Peixiang Zhao, Ph.D.

Nankai University, Tianjin, China Sep 2014 to Jun 2018
B.S., Information and Numerical Science

WORK EXPERIENCES

Search Engines Researcher Jul 2024 to present
2012 Lab, Huawei Technologies
Hangzhou, Zhejiang, China

Graduate Teaching Assistant Aug 2023 to May 2024
Department of Computer Science, Florida State University
Tallahassee, FL

Graduate Research Assistant Sep 2020 to Aug 2023
DAIS Lab, Florida State University
Tallahassee, FL

Research Intern May 2020 to Aug 2020
Seattle Cloud Lab, Futurewei Technologies
Remote

Graduate Teaching Assistant Jan 2020 to May 2020
Department of Computer Science, Florida State University
Tallahassee, FL

Graduate Teaching Assistant Aug 2018 to Aug 2019
Department of Computer Science, Florida State University
Tallahassee, FL

CONFERENCE PUBLICATIONS

- *: Equal Contribution
- [C1] **Jiyang Bai** and Peixiang Zhao. POLIGRAS: Policy-based Graph Summarization. In: *Proceedings of the VLDB Endowment*, Vol.17 (**VLDB '2024**)
- [C2] **Jiyang Bai** and Peixiang Zhao. TaGSim: Type-aware Graph Similarity Learning and Computation. In: *Proceedings of the VLDB Endowment*, Vol.15 (**VLDB '2022**).

- [C3] Yuxiang Ren*, **Jiyang Bai*** and Jiawei Zhang. Label Contrastive Coding based Graph Neural Network for Graph Classification. In: *Proceedings of the 26th International Conference on Database Systems for Advanced Applications (DASFAA '2021)*.
- [C4] **Jiyang Bai***, Yuxiang Ren* and Jiawei Zhang. Ripple Walk Training: A Subgraph-based training framework for Large and Deep Graph Neural Networks. In: *Proceedings of the 2021 International Joint Conference on Neural Networks (IJCNN '2021)*.
- [C5] **Jiyang Bai**, Yuxiang Ren and Jiawei Zhang. BGADAM: Boosting based Genetic-Evolutionary ADAM for Neural Network Optimization. In: *Proceedings of the 2021 International Joint Conference on Neural Networks (IJCNN '2021)*.
- [C6] **Jiyang Bai**, Yuxiang Ren and Jiawei Zhang. DEAM: Adaptive Momentum with Discriminative Weight for Stochastic Optimization. In: *Proceedings of the 2020 IEEE/ACM International Conference on Advances in Social Network Analysis and Mining (ASONAM '2020)*.
- [C7] Lin Meng, **Jiyang Bai** and Jiawei Zhang. LATTE: Application Oriented Social Network Embedding. In: *Proceedings of the 36th IEEE International Conference on Big Data (IEEE BigData '2019)*.

JOURNAL PUBLICATIONS

- [J1] **Jiyang Bai***, Yuxiang Ren* and Jiawei Zhang. Adaptive Momentum with Discriminative Weight for Neural Network Stochastic Optimization. *International Journal of Intelligent Systems (IJIS '2022)*.
- [J2] **Jiyang Bai***, Yuxiang Ren* and Jiawei Zhang. Measuring and Sampling: A Metric-guided Subgraph Learning Framework for Graph Neural Network. *International Journal of Intelligent Systems (IJIS '2022)*.

TEACHING EXPERIENCE

Graduate Teaching Assistant

Department of Computer Science
Florida State University

Course: COP 4710 Database Systems Spring 2024
Instructor: Peixiang Zhao, Ph.D

Course: COP 5725 Advanced Database Systems Fall 2023
Instructor: Peixiang Zhao, Ph.D

Course: CGS 2060/2100 Office Spring 2020
Instructor: Gokila Dorai, Ph.D

Course: CGS 2060/2100 Office Summer 2019
Instructor: Melina Myers

Course: COP 3353-000 Introduction to UNIX Spring 2019
Instructor: David Gaitros, Ph.D

Course: COP 4710-0001 Theory and Structure of Databases Fall 2018
Instructor: Jiawei Zhang, Ph.D

SKILLS

Computer Programming:
• Python, C++

AWARDS AND
HONORS

- University Scholarship (College Gongneng Scholarship), Nankai University, 2015, 2016

PROFESSIONAL
SERVICE

Conference Program Committee:

- ACM International Conference on Multimedia, *ACM MM 2021-2024*
- European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases, *ECML-PKDD 2020*

Journal Reviewer:

- Evolutionary Intelligence, *2024*
- Journal of Big Data, *2024*
- Social Network Analysis and Mining, *SNAM 2024*
- World Wide Web, *WWW 2024*
- Data Mining and Knowledge Discovery, *2024*
- Machine Learning, *2024*
- Cluster Computing, *2024*
- International Journal of Machine Learning and Cybernetics, *IJMLC 2024*
- IEEE Transactions on Neural Networks and Learning Systems, *TNNLS 2023*
- Knowledge and Information Systems, *KAIS 2023, 2024*
- Scientific Reports, *2023, 2024*
- Multimedia Systems, *2023, 2024*
- IEEE Transactions on Big Data, *TBD 2022-2024*
- Journal of Combinatorial Optimization, *JOCO 2022*
- International Journal of Intelligent Systems, *IJIS 2022*
- Information Systems, *2021-2023*
- Structural Health Monitoring, *SHM 2021*
- Pattern Recognition, *2020, 2022-2024*

Conference External Reviewer:

- IEEE International Conference on Data Mining, *ICDM 2021-2023*
- ACM International Conference on Multimedia, *ACM MM 2020*
- ACM International Conference on Information and Knowledge Management, *CIKM 2019, 2023*
- IEEE International Conference on Big Data, *BigData 2019*