

Jiyang Bai

CONTACT INFORMATION

Department of Computer Science
Florida State University
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Tallahassee, FL 32304

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RESEARCH INTERESTS

- **Graph and Deep Learning:**
Graph Neural Network; Graph Representation Learning; Stochastic Optimization Algorithm;
- **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

- 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
- Undergraduate Research Intern** Aug 2017 to May 2018
Bioinformatics Lab, Nankai University
Tianjin, China

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)*.

	<p>[C5] Jiyang Bai, Yuxiang Ren and Jiawei Zhang. BGADAM: Boosting based Genetic-Evolutionary ADAM for Neural Network Optimization. In: <i>Proceedings of the 2021 International Joint Conference on Neural Networks (IJCNN '2021)</i>.</p> <p>[C6] Jiyang Bai, Yuxiang Ren and Jiawei Zhang. DEAM: Adaptive Momentum with Discriminative Weight for Stochastic Optimization. In: <i>Proceedings of the 2020 IEEE/ACM International Conference on Advances in Social Network Analysis and Mining (ASONAM '2020)</i>.</p> <p>[C7] Lin Meng, Jiyang Bai and Jiawei Zhang. LATTE: Application Oriented Social Network Embedding. In: <i>Proceedings of the 36th IEEE International Conference on Big Data (IEEE BigData '2019)</i>.</p>																								
JOURNAL PUBLICATIONS	<p>[J1] Jiyang Bai*, Yuxiang Ren* and Jiawei Zhang. Adaptive Momentum with Discriminative Weight for Neural Network Stochastic Optimization. <i>International Journal of Intelligent Systems (IJIS '2022)</i>.</p> <p>[J2] Jiyang Bai*, Yuxiang Ren* and Jiawei Zhang. Measuring and Sampling: A Metric-guided Subgraph Learning Framework for Graph Neural Network. <i>International Journal of Intelligent Systems (IJIS '2022)</i>.</p>																								
TEACHING EXPERIENCE	<p>Graduate Teaching Assistant Department of Computer Science Florida State University</p> <table> <tr> <td>Course: COP 4710 Database Systems</td><td>Spring 2024</td></tr> <tr> <td>Instructor: Peixiang Zhao, Ph.D</td><td></td></tr> <tr> <td>Course: COP 5725 Advanced Database Systems</td><td>Fall 2023</td></tr> <tr> <td>Instructor: Peixiang Zhao, Ph.D</td><td></td></tr> <tr> <td>Course: CGS 2060/2100 Office</td><td>Spring 2020</td></tr> <tr> <td>Instructor: Gokila Dorai, Ph.D</td><td></td></tr> <tr> <td>Course: CGS 2060/2100 Office</td><td>Summer 2019</td></tr> <tr> <td>Instructor: Melina Myers</td><td></td></tr> <tr> <td>Course: COP 3353-000 Introduction to UNIX</td><td>Spring 2019</td></tr> <tr> <td>Instructor: David Gaitros, Ph.D</td><td></td></tr> <tr> <td>Course: COP 4710-0001 Theory and Structure of Databases</td><td>Fall 2018</td></tr> <tr> <td>Instructor: Jiawei Zhang, Ph.D</td><td></td></tr> </table>	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	
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SKILLS	<p>Computer Programming:</p> <ul style="list-style-type: none"> • Python, C/C++ 																								
AWARDS AND HONORS	<ul style="list-style-type: none"> • University Scholarship (College Gongneng Scholarship), Nankai University, 2015, 2016 • Meritorious Award in Mathematical Contest In Modeling of America (MCM), 2016 																								
PROFESSIONAL SERVICE	<p>Conference Program Committee:</p> <ul style="list-style-type: none"> • ACM International Conference on Multimedia, <i>ACM MM 2021-2024</i> 																								

- European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases, *ECML-PKDD 2020*

Journal Reviewer:

- World Wide Web, *WWW 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*
- Pattern Recognition, *2020, 2022-2024*
- Information Systems, *2021-2023*
- Scientific Reports, *2023*
- Multimedia Systems, *2023*
- Journal of Combinatorial Optimization, *JOCO 2022*
- Transactions on Big Data, *TBD 2022*
- International Journal of Intelligent Systems, *IJIS 2022*
- Structural Health Monitoring, *SHM 2021*
- IEEE Transactions on Image Processing, *TIP 2020*

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*