BO JIANYUAN I jybo.sg@gmail.com · └ (+65) 87314818

EDUCATION

Singapore Management University, Singapore PhD in Computer Science (Artificial Intelligence & Data Science), expected July 2025	Aug 2020 – Presen
Singapore Management University, Singapore Master of IT in Business in Artificial Intelligence	Jan 2019 – Jun 2020
University of Southern California, Los Angeles, USA Master of Science in Mechanical Engineering	Jan 2015 – Dec 2016
Huazhong Agricultral University, Hubei, China Bachelor of Engineering in Mechatronics Engineering	Sep 2010 – Jun 2014
📽 Experience	
Huawei Noah's Ark Lab, Singapore Research Intern	Jan 2025 – Present
 Researched Retrieval-Augmented Generation (RAG) and GraphRAG techniques for enhancing Developed graph-based indexing strategies and knowledge graph integration for context-aware Evaluated and benchmarked RAG implementations for efficiency and response accuracy 	
Fujitsu-SMU Urban Computing and Engineering (UNiCEN) Corp. Lab, Singapore Graduate Student	May 2019 – Sep 2020
 Developed hybrid algorithms using Fujitsu Digital Annealer for large-scale scheduling and rot Designed novel decomposition methods for complex flow shop and job shop problems Achieved superior performance with reduced computation time compared to traditional heuris 	
Publication	
 Quantizing Text-attributed Graphs for Semantic-Structural Integration Jianyuan Bo, Hao Wu, and Yuan Fang Under Review, 2025 CORE: Contrastive Masked Feature Reconstruction on Graphs Jianyuan Bo and Yuan Fang Under Review, 2025 Contrastive General Graph Matching with Adaptive Augmentation Sampling Jianyuan Bo and Yuan Fang International Joint Conference on Artificial Intelligence (IJCAI), 2024 A Survey of Few-Shot Learning on Graphs: from Meta-learning to Pre-training and Pro Xingtong Yu, Yuan Fang, Zemin Liu, Yuxia Wu, Zhihao Wen, Jianyuan Bo, Xinming Zhang Preprint, 2024 Techniques to Enhance a QUBO solver for Permutation-based Combinatorial Optimizat Siong Thye Goh, Jianyuan Bo, Sabrish Gopalakrishnan, and Hoong Chuin Lau Genetic and Evolutionary Computation Conference (GECCO), 2022 	and Steven C.H. Hoi
Skills	
 Programming Languages: Python > Java > C++ Software: Pytorch, TensorFlow, Keras, MATLAB, CPLEX Language: English, Mandarin 	
\heartsuit Honors and Awards	
Fujitsu-SMU UNICEN Scholarship (2019 – 2020)	

- Fujitsu-SMU UNICEN Scholarship (2019 2020) Outstanding academic performance and research potential
- Dean's List, School of Computing and Information Systems (2019 2020)

i Miscellaneous

- Singapore Permanent Resident
- Website: https://www.bojianyuan.com/
- GitHub: https://github.com/jybosg