Enjun Du

Cyberspace Science and Technology
Interested in GNN, LLM and recommendation
Undergraduate Student, Batch 2022

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EDUCATION

- **Beijing Institute of Technology** *2022~2026*
  Cyberspace Science and Technology GPA/Rank: 90.0 / 8%

- **National University of Singapore** *July 2024*
  Summer Research Successfully completed the program

ACADEMIC EXPERIENCE

- **Mixture of Hop and Pruning Experts for Knowledge Graph Reasoning** *link*
  First Author, submitted to IJCAI 2025 HKUSTgz
  – We introduced MoKGR, a knowledge graph reasoning framework that combines adaptive multi-hop weighting with a mixture of pruning experts to enhance reasoning accuracy and efficiency.
  – Our method outperformed state-of-the-art baselines on large-scale datasets, demonstrating superior scalability, accuracy, and computational efficiency through innovative pruning strategies and dynamic hop-level weighting.

- **Graph data augmentation and pre-training based on large language model** *link*
  Researching BIT
  – Enhancing Graph Data with Large Language Models for Augmentation and Pretraining
  – Synthesis and Diversification of Graph Data Using Large Language Models for Improved Model Performance

- **Dual Social View Enhanced Contrastive Learning for Social Recommendation** *link*
  Second Student Author, published in IEEE Transactions on Computational Social Systems BIT
  – We introduced DSVC, a dual social view-enhanced contrastive learning framework that leverages augmented social networks to address sparsity and noise in social recommendation.
  – Our method achieves superior recommendation accuracy by utilizing consistency factors and probability-guided augmentation, outperforming state-of-the-art baselines on multiple real-world datasets.

- **Behavior Habits Enhanced Intention Learning for Session Based Recommendation** *link*
  Fourth Student Author, submitted to TKDE BIT
  – We proposed BHSBR, a behavior habit-enhanced intention learning framework that integrates global semantic relationships and hypergraph-based user behavior habits to capture accurate session intentions.
  – Our model significantly outperformed state-of-the-art methods across three real-world datasets, demonstrating its effectiveness in mitigating noise and enhancing recommendation accuracy.

- **Causal Disentanglement-Enhanced Diffusion Denoising for Social Recommendation** *link*
  Second Student Author, submitted to Transactions on Intelligent Systems and Technology BIT
  – We proposed CaDDiSR, a framework combining causal disentanglement and diffusion denoising for social recommendation.
  – Our approach significantly improves recommendation accuracy, outperforming state-of-the-art methods on real-world datasets.

- **SimDiff: A Simple yet Efficient Diffusion-based Collaborative Filtering Framework** *link*
  Third Student Author, submitted to SIGIR 2025 BIT

- **Operating System Competition: National Security Algorithm** *link*
  The finished product was awarded the Excellence Award. BIT
  – Based on openssl. The provided national security algorithm sm2/sm3/sm4 is modified to OpenSSH, so that it can generate the key of the national security algorithm after modification and can self log in using the national security algorithm.
  – Write test cases for OpenSSH's national security transformation and use LCOV to calculate the coverage rate of newly added code.

- **Introducing user knowledge graph profiles and sequence vectors for LLM enhanced recommendation**
  INSTITUTE OF COMPUTING TECHNOLOGY
  – Knowledge graph enhancement vector of user preference vector concatenated with user time series vector.
  – Controllable hierarchical candidate sets for LLM incremental sampling

RESEARCH EXPERIENCE

- **Yongqi Zhang's KiMi lab** *Homepage*
  Visiting Student HKUSTgz
  – Research assistant, leading the research paper on knowledge graph reasoning based on hybrid experts.
  – Research on GraphRAG and telecommunications anti-fraud and other topics.

- **Ronghua Li's Lab** *Homepage*
  Research Assistant BIT
  – Research assistant, leading the research on graph data augmentation and pre-training based on large language models.

- **Zhida Qin's Lab** *Homepage*
  Research Assistant BIT
  – First host of the College Students Innovation and Entrepreneurship Competition
  – Research paper assistant

EXCELLENT AWARD

- **Asia-Pacific Mathematical Modeling International** *First and Second Prizes*
- **China Property Modeling Contest** *Position tenure*
- **ISCCInformation Security and Countermeasures Contest** *National Second Prize*
- **2023 Algorithm Competition for College Students** *Excellent Award*
- **Tsinghua Society Cup College Student Algorithm Competition** *Excellent Award*
- **CCF2024 China Computer Application Technology Competition-National Algorithm Elite Competition**
  Second Prize
- **Beijing Institute of Technology Freshmen Programming Competition** *First Prize*
- **Beijing Institute of Technology Programming Competition** *First Prize*

HONORS

- Five times Second Class Scholarship of Beijing Institute of Technology
- Two times Outstanding Students and Student Leaders of Beijing Institute of Technology
- Beijing Institute of Technology's Research and Innovation Role Model
- President, Student Technology Association, Cyberspace Security Institute
- President, Cyber Security Club
- President, World Tree Volunteer Association
- Student Financial Aid Center Assistant