Dong Li

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RESEARCH OF INTERESTS

- Fairness-aware Machine Learning
- Domain Generalization
- Graph Mining
- Causal Discovery
- Computational Biology

EDUCATION

- **Tianjin University** — *2022 - Present*
  M.E. in Computer Science — Tianjin, China
  ◦ GPA: 3.84/4.00

- **Tiangong University (Tianjin Polytechnic University)** — *2018 - 2022*
  B.E. in Computer Science — Tianjin, China
  ◦ GPA: 3.93/4.00

PUBLICATIONS C=CONFERENCE, J=JOURNAL, CW=CONFERENCE WORKSHOP

[C.1] **[ICASSP'24]** Zhixia He, Chen Zhao, Minglai Shao, Yujie Lin, **Dong Li**, Qin Tian. GDDA: Semantic OOD Detection on Graphs under Covariate Shift via Score-Based Diffusion Model. In Proceedings of the IEEE International Conference on Acoustics, Speech and Signal Processing, 2025

[C.2] **[KDD'24]** Qin Tian, Chen Zhao, Minglai Shao, Wenjun Wang, Yujie Lin, **Dong Li**. MLDGG: Meta-Learning for Domain Generalization on Graphs. In Proceedings of the ACM SIGKDD Conference on Knowledge Discovery and Data Mining, 2025.

[C.3] **[CIKM'24] Dong Li**, Chen Zhao, Minglai Shao, Wenjun Wang. Learning Fair Invariant Representations under Covariate and Correlation Shifts Simultaneously. In Proceedings of the 33rd ACM International Conference on Information and Knowledge Management, 2024.

[C.4] **[IJCAI'24]** Minglai Shao*, **Dong Li***, Chen Zhao*, Xintao Wu, Yujie Lin, Qin Tian. (*Equal contribution). Supervised Algorithmic Fairness in Distribution Shifts: A Survey. In Proceedings of the 33rd International Joint Conference on Artificial Intelligence, 2024.

[C.5] **[CIKM'23] Dong Li**, Wenjun Wang, Minglai Shao, Chen Zhao. Contrastive Representation Learning Based on Multiple Node-centered Subgraphs. In Proceedings of the 32nd ACM International Conference on Information and Knowledge Management, 2023.

[J.1] **[DDNS'21]** Xiangning Chen, Caiyun Wang, **Dong Li**, Xuemei Sun. A new early rumor detection model based on bigru neural network. Discrete Dynamics in Nature and Society, 2021.

[CW.1] **[KDD'24-W]** Zhixia He, Chen Zhao, Minglai Shao, Yujie Lin, **Dong Li**. Semantic OOD Detection under Covariate Shift on Graphs with Diffusion Model. KDD Workshop on Uncertainty Reasoning and Quantification in Decision Making, 2024.

[CW.2] **[KDD'24-W]** Qin Tian, Wenjun Wang, Minglai Shao, Chen Zhao, **Dong Li**. IDGG: Invariant Learning for Out-of-Distribution Generalization on Graphs. KDD Workshop on Uncertainty Reasoning and Quantification in Decision Making, 2024.

[CW.3] **[KDD'24-W]** Yujie Lin, **Dong Li**, Chen Zhao, Minglai Shao. Fair Data Generation via Score-based Diffusion Model. KDD Workshop on Ethical Artificial Intelligence: Methods and Applications, 2024.

[CW.4] **[KDD'23-W] Dong Li**, Chen Zhao, Minglai Shao, Xujiang Zhao. Learning Fair and Domain Generalization Representation. KDD Workshop on Ethical Artificial Intelligence: Methods and Applications, 2023.

[CW.5] **[IMCEC-W'21]** Wang Caiyun, Sun Xuemei, Rong Chuitian, **Li Dong**. Twitter Rumor Detection Technology Based on Hierarchical Capsule Network. IEEE 4th Advanced Information Management, Communicates, Electronic and Automation Control Conference, 2021.

ACADEMIC SERVICES

- **Chair-ship and Organizer**
  - **[Web Chair]** The 2nd Workshops on Advances in Robust and Reliable Machine Learning (ARRML @ SDM'25).
- **Conference Program Committee / Reviewer**
  - ACL Rolling Review - December 2024
- **Workshop Reviewer**
  - KDD Workshop on Uncertainty Reasoning and Quantification in Decision Making, 2024.
  - KDD Workshop on Ethical Artificial Intelligence: Methods and Applications, 2024.

TUTORIALS

- **Supervised Algorithmic Fairness in Distribution Shifts**
  - **Dong Li**, Chen Zhao, Xintao Wu.
    SIAM International Conference on Data Mining (SDM), Alexandria, Virginia, USA, May 1st, 2025.
  - **Dong Li,** Chen Zhao, Xintao Wu.
    The Annual AAAI Conference on Artificial Intelligence (AAAI), Philadelphia, PA, USA, February 25th, 2025.

INVITED TALKS

- **Advances in Fairness and Robustness in Machine Learning Under Distribution Shifts**
  - AI TIME (October 2024, Online, Host: Qing Qi)

HONORS AND AWARDS

- **School-Level First Prize Scholarship** — *12/2023*
  Tianjin University
- **School-level Outstanding Student** — *12/2023*
  Tianjin University
- **School-level Outstanding Student** — *12/2022*
  Tianjin University
- **Second Prize of The 9th Teddy Cup Data Mining Challenge** — *06/2021*
  Teddy Cup Data Mining Challenge Committee
- **Second Prize of ASC World University Supercomputing Competition** — *01/2021*
  Southern University of Science and Technology of China
- **First Prize of Principal Scholarship** — *12/2021*
  Tianjin Polytechnic University
- **Second Prize in the 12th National College Student Mathematics Competition** — *12/2020*
  Chinese Mathematical Society
- **Honorable Mention of Mathematical Contest In Modeling** — *12/2020*
  COMAP (US)
- **First Prize in the Chinese Graduate Mathematical Modeling Competition** — *12/2020*
  Organizing Committee of China Graduate Mathematical Modeling
- **First Prize in the Chinese Graduate Mathematical Modeling Competition** — *12/2020*
  Organizing Committee of China Graduate Mathematical Modeling
- **School-level Outstanding Student** — *12/2020*
  Tianjin Polytechnic University
- **Bronze Award in the National College Student Algorithm Design and Programming Challenge** — *11/2020*
  Tianjin Polytechnic University
- **Third Prize in the May Day Mathematical Modeling Competition** — *06/2020*
  Tianjin Polytechnic University
- **First prize in the undergraduate category of the MathorCup College Mathematical Modeling Challenge** — *06/2020*
  China Optimal Law System Planning and Economic Mathematics Research Association
- **First Prize of the National College Student Mathematical Modeling Competition (Tianjin Division)** — *06/2020*
  Chinese Society of Industrial and Applied Mathematics
- **First Prize of Principal Scholarship** — *12/2019*
  Tianjin Polytechnic University
- **Tianjin Municipal Government People's Scholarship** — *12/2019*
  Tianjin Municipal Commission of Education

- **School-level Outstanding Student** *12/2019*
  Tianjin Polytechnic University
- **Third Prize in the 11th National College Student Mathematics Competition** *11/2019*
  Chinese Mathematical Society
- **Second Prize in the Mathematics Competition of Ordinary Universities in Tianjin** *07/2019*
  Tianjin Municipal Commission of Education
- **Tianjin Polytechnic University 2018 Freshman Scholarship** *08/2018*
  Tianjin Polytechnic University