Yilin He

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Education

The University of Texas at Austin — Austin, TX
PhD in Information, Risk and Operations Management (IROM) — *August 2018 – May 2023 (expected)*

University of Science and Technology of China — Hefei, China
Bachelor in Electronic and Information Engineering — *September 2014 – June 2018*

Publications

- Yilin He, Chaojie Wang, Hao Zhang, Bo Chen, and Mingyuan Zhou. "A Variational Edge Partition Model for Supervised Graph Representation Learning," *arXiv:2202.03233*, February 2022.
- Yilin He, Wengang Zhou, and Houqiang Li. "Major-Subordinate-Task Learning for Image Orientation Estimation," accepted to *IEEE International Conference on Multimedia Expo* (ICME), March 2018.

Projects

Social Recommendation System — December 2021 – Present
- Incorporated generative community detection into collaborative filtering.
- Proposed community-wise trust propagation in user embedding modeling which improves model performances.

Graph Self-Supervised Learning — February 2022 – Present
- To study methods and effects to incorporate generative community detection into graph self-supervised learning.

Supervised Graph Representation Learning with Generative Models — February 2020 – January 2022
- Explored various ways of incorporating graph generative model into graph supervised learning tasks.
- Proposed the Variational Edge Partition Model that improves graph supervised learning by utilizing latent communities inferred from both graph architecture and labels.
- The work is summarized in a working paper (PUBLICATION ITEM 1) and under peer review.

Hornors & Awards

University of Texas at Austin Graduate School Summer Fellowship — *2022*
Jastrow fellowship of the University of Texas at Austin — *2018*
Excellent Graduate of Univerisity of Science and Technology of China — *2018*

Teaching experience

- Teaching assistance of STATISTICS AND MODELING (undergraduate).
- Teaching assistance of TIME SERIES FORECASTING (undergraduate and MBA).
- Teaching assistance of STATISTICS FOR EXECUTIVES (EMBA).

Courses

STATISTICS & PROBABILITY: MATHEMATICAL STATISTICS (I) | LINEAR MODELS | STATISTICAL MODELS (I, II) | MONTE CARLO METHODS | THEORETICAL STATISTICS | CAUSAL INFERENCE METHODS
ECONOMICS & BUSINESS: MARKETING MODELS | MACHINE LEARNING IN FINANCE
COMPUTATION & NUMERICAL METHODS: DATA MINING | BAYESIAN DEEP LEARNING

Technical Skills

Python | R | MATLAB | C/Cpp | EXCEL | LINUX