RUOMENG DING

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EDUCATION

Georgia Institute of Technology *Aug, 2022 - Present*
Master in Computer Science GPA: 4.0/4.0
Machine Learning, Data & Visual Analytics, Intro to Grad Algorithms, Deterministic Optimization...

Tianjin University *Aug, 2018 - July, 2022*
Bachelor in Computer Science and Technology GPA: 3.75/4.0
Probability Theory, Linear Algebra, Artificial Intelligence, Natural Language Processing...

RESEARCH EXPERIENCE

Data, Knowledge, and Intelligence Group, Microsoft Research Asia *Dec, 2022 - Present*
Research Intern, Mentor: *Dr. Lu Wang* and *Dr. Chaoyun Zhang*

- Dedicated to the following research work:
  - Enhance Root Cause Analysis in large-scale microservices systems through Reinforcement Learning.
  - Focus on new prompting method to surpass traditional thought limitations in LLMs for enhanced creativity and generalization.

- **Ruomeng Ding**, Chaoyun Zhang, Lu Wang, Yong Xu, Minghua Ma, et al., "Adaptive, Interpretable and Efficient Root Cause Analysis on Large-Scale Microservice Systems." *ESEC/FSE Industry Track*, 2023.

- Lu Wang, Chaoyun Zhang, **Ruomeng Ding**, Yong Xu, et al., "Root Cause Analysis for Microservice Systems via Hierarchical Reinforcement Learning from Human Feedback." *KDD*, 2023.

College of Intelligence and Computing, Tianjin University *Aug, 2020 - July, 2022*
Research Assistant, advised by *Dr. Minglai Shao* and *Dr. Wenjun Wang*

- Dedicated to the following research work:
  - Focus on multi-label Out-Of-Distribution detection problem on graphs from an evidential perspective.
  - Assist in completing a paper on dynamic community detection. On this basis, complete the undergraduate thesis in the field of dynamic network embedding.

- *Under Review.* "Evidential based Out-Of-Distribution Detection on Multi-Label Graphs." (**First Author**)

- *Under Review.* "Temporal Network Representation Learning via Dirichlet Variational Graph AutoEncoder." (**First Author**)

- **Ruomeng Ding**, Xujiang Zhao, Chen Zhao, and Minglai Shao, "Detecting Multi-Label Out-of-Distribution Nodes on Graphs." *AAAI UDM Workshop*, 2023.

- Tianpeng Li, Wenjun Wang, Pengfei Jiao, Yinghui Wang, **Ruomeng Ding**, Huaming Wu, Lin Pan, and Di Jin, "Exploring Temporal Community Structure via Network Embedding," in *IEEE Transactions on Cybernetics, doi: 10.1109/TCYB.2022.3168343*, 2022.

PROJECTS

Analysis on Causes of Depression via Social Media [Code] *Aug, 2019 - July, 2020*

- Develop an emotion-cause pair extraction and depression emotional cause recognition system.

AWARDS AND SCHOLARSHIPS

GT-Shenzhen Merit-Based Scholarship, Georgia Tech, Shenzhen Campus *Aug, 2022*
Tianjin Government Scholarship, Tianjin *Dec, 2020*
Merit Scholarship, Tianjin University *Dec, 2019*