Liangwei Yang

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🎓 EDUCATION

University of Illinois at Chicago 2020 – present

PhD student in Computer Science and Technology

- Research direction: Recommendation system, Information retrieval, Graph Neural Network
- GPA:*4.0/4.0*

University of Electronic Science and Technology of China 2013 – 2020

Bachelor Degree in Electronics Science and Technology
Master Degree in Computer Science and Technology

👥 WORK EXPERIENCE

ByteDance Inc 05/16/2022 – 08/05/2022

Research Intern, Curricular Practical Training

Project: Diversified recommendation

- The project focuses on how to increase the diversity of the recommender systems.
- Upon Graph Neural Network, we design submodular neighbor selection, layer attention, and loss reweight that greatly increase recommendation diversity at minimal cost on accuracy.
- This internship led to one research paper that has been submitted to the WSDM conference.

📄 SELECTED PUBLICATIONS

- **Liangwei Yang**, Shengjie Wang, Yunzhe Tao, Jiankai Sun, Xiaolong Liu, Philip S Yu. and Taiqing Wang. "DGRec: Graph Neural Network for Recommendation with Diversified Embedding Generation." submitted to *WSDM 2023.*
- Yu Wang, Hengrui Zhang, Zhiwei Liu, **Liangwei Yang** and Philip S Yu. "ContrastVAE: Contrastive Variational AutoEncoder for Sequential Recommendation." *CIKM 2022.*
- **Liangwei Yang**, Zhiwei Liu, Yu Wang, Chen Wang, Ziwei Fan, Philip S Yu. "Large-scale Personalized Video Game Recommendation via Social-aware Contextualized Graph Neural Network." *WWW 2022.*
- **Liangwei Yang**, Zhiwei Liu, Yingtong Dou, Jing Ma, and Philip S Yu. "ConsisRec: Enhancing GNN for Social Recommendation via Consistent Neighbor Aggregation." *SIGIR 2021.*
- Zhiwei Liu, **Liangwei Yang**, Ziwei Fan, Hao Peng, Philip S Yu. "Federated Social Recommendation with Graph Neural Network." *ACM Transactions on Intelligent Systems and Technology.*
- Mensah Dennis Nii Ayeh, Hui Gao and **Liangwei Yang**."Approximation algorithm for shortest path in large social networks." *Algorithms* (2020): 13(2), 36.
- **Liangwei Yang**, Hui Gao, Keyu Wu, Hao Lin, Haotian Zhang and Changyu Li. "Identification of cancerlectins by using cascade linear discriminant analysis and optimal g-gap tripeptide composition." *Current Bioinformatics* (2020): 15(6), 528.
- Chungu Guo, **Liangwei Yang**, Xiao Chen, Duanbing Chen, Hui Gao and Jing Ma. "Influential nodes identification in complex networks via information entropy." *Entropy* (2020): 22(2), 242.
- **Liangwei Yang**, Hui Gao, Zhen Liu and Lixia Tang. "Identification of phage virion proteins by using the g-gap tripeptide composition." *Letters in Organic Chemistry* (2018): 16(4), 332-339.

💗 SERVICES

- Conference reviewer: IJCAI 2021, CIKM 2022, KDD 2022, WSDM 2022, AAAI 2023, NIPS 2022
- Journal reviewer: TKDD, TKDE, TPAMI
- Student Volunteer: WSDM 2022