Yunzhe Li

Master Student

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EDUCATION

Shanghai Jiao Tong University *Shanghai, China*
M.S. in Computer Science *Sept. 2019 – Mar. 2022*

- AIoT Lab, supervisor: Prof. Dong Wang.
- Research Interests involve Sequential Modeling, Time Series Clustering, Graph Neural Network, Information Retrieval.

Sun Yat-Sen University *Guangzhou, China*
B.S. in Software Engineering *Aug. 2015 – Jun. 2019*

- Core Modules: Algorithm Design, Artificial Intelligence, Data Mining, Software Porgramming Design.
- GPA: **3.9/4** (Top 5%, Equivalent to **1st Class Honors**), Honors Graduate.

PUBLICATIONS

Extracting Attentive Social Temporal Excitation for Sequential Recommendation

- **Yunzhe Li**, Y. Ding, B. Chen, X. Xin, Y. Wang, Y. Shi, R. Tang, D. Wang
- In *the Proceeding of 30th ACM International Conference on Information and Knowledge Management (**CIKM**), 2021*

AIRec: Attentive Intersection Model for Tag-Aware Recommendation

- B. Chen, Y. Ding, X. Xin, **Yunzhe Li**, Y. Wang, D. Wang
- In *Neurocomputing (**NC**), 2021. Volume 421, 15 January 2021, Pages 105-114.*

Modeling Item Popularity and Mining Complex Dependencies for Sequential Recommendation

- Y. Ding, **Yunzhe Li**, Y. Wang, H. Chen, H. Lu, D. Wang, and J. Yan
- In *IEEE Transactions on Cybernetics, Under Review*

CMT: Cluster-Wise Multi-Objective Training for Long-Tail Recommendation

- Y. Wang, X. Xin, Y. Ding, **Yunzhe Li**, Y. Shi, D. Wang
- In *ACM Transactions on Information and Systems (**TOIS**), Under Review.*

Learning Embeddings for Numerical Features with Multi-nary Encoding

- B. Chen, H. Guo, W. Liu, Y. Ding, **Yunzhe Li**, W. Guo,Y. Wang, Z. He, R. Tang, X. He
- Submitted to *the Thirty-Sixth AAAI Conference on Artificial Intelligence (**AAAI**)*, 2022

SELECTED PROJECTS

Event-Level Sequential Recommendation Improved by Point Process. *2020 – 2021*

- Take temporal information and social relationships into the event sequence, i.e., model the impact of friends' behavior event sequences on the target user. Enhance sequential recommendation performance with event-level social information in a direct paradigm.
- Propose a novel time-aware sequential recommendation model. Two temporal networks based on the neural Hawkes process are designed to model both the dynamic influence of social relationships and user's dynamic interests.
- Extensive experiments on three real-world datasets are conducted to demonstrate that the model outperforms state-of-the-art methods(TiSASRec, BERT4Rec, etc.) and the effectiveness of the modules in the model.

Personalized Recommendation System for Borrowing in Library *2019 – 2020*

- Extract students' interests and recommend suitable books by analyzing the historical borrowing records, to improve the utilization of library resources and student's reading level.
- Design an end-to-end model with two phases: offline and incremental learning. Calculate the prior distribution of borrowed books and construct domain knowledge through associated knowledge mining. Then leverage the attention mechanism to capture the characters of faculties and get high-order features by interaction mapping and CNNs. Finally, predict by factorization machine and training with Bayesian personalized ranking framework.
- The Project of the Ministry of Education of China, NO. NGII20190904.

TEACHING EXPERIENCE

SE125: Machine Learning *SJTU. 2020 Fall*

- Teaching Assistance for Prof. Xiaodong Gu.

EMPLOYMENT EXPERIENCE

JY Asset Management Ltd. *Guangzhou, China. Oct. 2018 – Jan. 2019*

- Artificial Intelligence Data Engineer Intern.
- Participate in the development of AI analysis system, implement algorithm and model solidification, quantitative backtest and parameter optimization.

DCD Lab, Zhejiang University *Hangzhou, China. Jul. 2018 – Aug. 2018*

- Research Intern. Supervisor: Prof. Zhou Zhao.
- Tackle the task of Chinese semantic similarity discrimination by ensemble learning, which also implement an end-to-end model with high precision.

HONOR & AWARD

SIGIR Student Travel Award *2021*
National Scholarship *2018*
National College Student Programming Competition, Second Prize in Guangdong Province *2018*
National Encouragement Scholarship *2017*
National College Student Robot Contest, Third Prize in the South Race Area *2017*
American Mathematical Contest In Modeling, Honorable Mention *2017*
First-class Scholarship for Outstanding Students *2016-2019*

SKILLS

- **Programming Skills:** Python, C/C++, Matlab, SQL, Verilog(HDL)
- **Frameworks & Library:** Pytorch, Keras, Tensorflow, PyG, Pyro
- **Others:** Cheerful personality, good communication skills and work responsibility