

Yilun Jin | Curriculum Vitae

Department of CSE, The Hong Kong University of Science and Technology
Hong Kong SAR – China

☎ +86-18101885710, +852-65837148 • ✉ yilun.jin@connect.ust.hk
🌐 <http://KL4805.github.io>

I am currently a PhD student from Department of Computer Science and Engineering, The Hong Kong University of Science and Technology, Hong Kong SAR, advised by Prof. Qiang Yang. My current research interests lie in the field of Federated Learning, including algorithms and privacy & security. I am also interested in information network mining, including Graph Representation Learning, Graph Neural Networks, etc¹.

Education

- **Ph.D. Student, Dept. of CSE, HKUST** **Hong Kong SAR**
9.2019–
Computer Science and Engineering
Advisor: Prof. Qiang Yang
- **B. S., School of EECS, Peking University** **Beijing, China**
9.2015–7.2019
Computer Science, GPA: 3.7/4.0
Advisor: Prof. Guojie Song
Selected courses: Advanced Algebra, Mathematical Analysis, Convex Optimization, Compiler Design.
- **B. Economics, National School of Development, Peking University** **Beijing, China**
9.2016–7.2019
Economics, GPA: 3.7/4.0
Selected courses: Intermediate Macro- & Micro-Economics, Econometrics, Financial Economics, Money and Banking, Special Topics on Reform in China
- **University of California, San Diego** **La Jolla, USA**
9.2017–12.2017
Exchange Student, GPA: 3.93/4.0
Courses: Computer Operating System, Machine Learning, Recommender System and Web Mining

Experiences

- **SenseTime** **Beijing, China**
3.2018–6.2018
Research Internship on Video analysis
Implemented content-aware collaborative filtering based video recommendation algorithm, along with a dataset for video recommendation, consisting both video corpus and interaction data.
- **University of California, San Diego** **La Jolla, USA**
7.2018–9.2018
Research Intern, advised by Prof. Julian McAuley
Research intern on deep, visually and temporally aware recommender systems and user preference modeling. Extending existing work *Neural Collaborative Filtering (He and Chua, 2017)* to make it temporally-aware.
- **Peking University, China** **Beijing, China**
10.2018–8.2019
Research Assistant, advised by Prof. Guojie Song
Research on a wide range of topics through graph representation learning, including temporal aware, community aware and memory adaptive network embeddings. Several topics on Graph Neural Networks are also involved.

¹Last Updated Nov. 2019

Publications

1. **GraLSP: Graph Neural Networks with Local Structural Patterns**
Yilun Jin, Guojie Song, Chuan Shi 2.2020
To Appear in the Thirty-Fourth AAAI Conference on Artificial Intelligence, 2020.
2. **Hierarchical Community Structure Preserving Network Embedding: A Subspace Approach**
Qingqing Long, Yiming Wang, Lun Du, Guojie Song, **Yilun Jin**, Wei Lin 11.2019
The 28th ACM International Conference on Information and Knowledge Management (CIKM). ACM, 2019.
Best Paper Runner-Up
3. **DANE: Domain Adaptive Network Embedding**
Yizhou Zhang, Shuwen Yang, Guojie Song, **Yilun Jin** 8.2019
The 28th International Joint Conference on Artificial Intelligence (IJCAI). 2019.
4. **SecureBoost: A Lossless Federated Learning Framework**
Kewei Cheng, Tao Fan, **Yilun Jin**, Yang Liu, Tianjian Chen, Qiang Yang 8.2019
The 1st International Workshop on Federated Machine Learning for User Privacy and Data Confidentiality, in conjunction with IJCAI 2019

Technical and Personal skills

- **Mathematics Background:** Discrete Mathematics, Advanced Algebra, Convex Optimization, Mathematical Analysis, Probability and Statistics.
- **Programming Languages:** C, C++, Python (TensorFlow, PyTorch), Java, \LaTeX , CUDA, SQL
- **Language Skills:** Chinese (native speaker), English (proficient with speaking 26 in TOEFL, analytical writing 5.0 in GRE)
 - I am the primary writer for all the publications listed above.
- **General Skills:** Self motivation. Work well in a team.

Teaching

- **Teaching Assistant**, *Practice of Programming in C++*, Peking University, Spring 2019

Awards

- **Best Paper Runner-up**, CIKM Research Track, 2019
- **Award for Research Excellence**, Peking University, 2018
- **Merit Student**, Peking University, 2017
- **Huawei Scholarship**, Peking University, 2017
- **Yu Minhong Scholarship for overseas exchange**, Peking University, 2017
- **Founder Scholarship**, Peking University, 2016
- **Award for Academic Excellence**, Peking University, 2016

Miscellaneous

- Aside from academic activities, I also participate in activities related to civil aviation. I am a distinguished author of civil aviation in *zhihu*, a question-answering website similar to *Quora*. I am also a member of *ACICFG*, a group for caption making of documentary *Air Crash Investigation*, whose works have been published to video websites including *acfun* and *bilibili*.