

Yilun Jin | Curriculum Vitae

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Education

- **Ph.D. Student, Dept. of CSE, HKUST** **Hong Kong SAR**
Computer Science and Engineering 9.2019–
Advisor: Prof. Qiang Yang, Prof. Kai Chen.
- **B. S. , School of EECS, Peking University** **Beijing, China**
Computer Science, GPA: 3.7/4.0 9.2015–7.2019
Advisor: Prof. Guojie Song
Selected courses: Advanced Algebra, Mathematical Analysis, Convex Optimization, Compiler Design.
- **B. Economics, National School of Development, Peking University** **Beijing, China**
Economics, GPA: 3.7/4.0 9.2016–7.2019
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**
Exchange Student, GPA: 3.93/4.0 9.2017–12.2017
Courses: Computer Operating System, Machine Learning, Recommender System and Web Mining

Experiences

- **WeBank** **Shenzhen, China**
Internship, advised by Dr. Lixin Fan 6.2020–12.2020
Research on federated learning, adversarial machine learning, and machine learning privacy.
- **SenseTime** **Beijing, China**
Research Internship on Video analysis 3.2018–6.2018
Implemented content-aware collaborative filtering based video recommendation algorithm, along with a dataset for video recommendation, consisting both video corpus and interaction data.
- **Peking University, China** **Beijing, China**
Research Assistant, advised by Prof. Guojie Song 9.2018–9.2019
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. See *Publications* for details.

Publications

Conference Papers.....

- Selective Cross-city Transfer Learning for Traffic Prediction via Source City**
1. **Region Re-weighting**
Yilun Jin, Kai Chen, Qiang Yang 8.2022
To appear in the 28th SIGKDD Conference on Knowledge Discovery and Data Mining (KDD), 2022.
 2. **Theoretically Improving Graph Neural Networks via Anonymous Walk**
Qingqing Long, Yilun Jin*, Yi Wu*, Guojie Song* 4.2021
In the Web Conference (TheWebConf, a.k.a. WWW), 2021.
 3. **Graph Structural-topic Neural Network**
Qingqing Long, Yilun Jin*, Guojie Song, Yi Li, Wei Lin* 8.2020
In the 26th SIGKDD Conference on Knowledge Discovery and Data Mining (KDD), 2020.
 4. **EPNE: Evolutionary Pattern Preserving Network Embedding**
Junshan Wang, Yilun Jin*, Guojie Song, Xiaojun Ma* 6.2020
In the 24th European Conference on Artificial Intelligence (ECAI), 2020.
 5. **GraLSP: Graph Neural Networks with Local Structural Patterns**
Yilun Jin, Guojie Song, Chuan Shi 2.2020
In the 34th AAAI Conference on Artificial Intelligence, 2020.
 6. **GraphMSE: Efficient Meta-path Selection in Semantically Aligned Feature Space for Graph Neural Networks**
Yi Li, Yilun Jin, Guojie Song, Chuan Shi, Zihao Zhu, Yiming Wang 2.2021
In the 35th AAAI Conference on Artificial Intelligence, 2021.
 7. **Domain Adaptive Classification on Heterogeneous Information Networks**
Shuwen Yang, Guojie Song, Yilun Jin, Lun Du 7.2020
In the 29th International Joint Conference on Artificial Intelligence (IJCAI-PRICAI), 2020.
 8. **Active Domain Transfer on Network Embedding**
Lichen Jin, Yizhou Zhang, Guojie Song, Yilun Jin 4.2020
In the Web Conference (TheWebConf, a.k.a. WWW), 2020.
 9. **Hierarchical Community Structure Preserving Network Embedding: A Sub-space Approach**
Qingqing Long, Yiming Wang, Lun Du, Guojie Song, Yilun Jin, Wei Lin 11.2019
In the 28th ACM International Conference on Information and Knowledge Management (CIKM), 2019.
Best Research Paper Runner-up
 10. **DANE: Domain Adaptive Network Embedding**
Yizhou Zhang, Guojie Song, Lun Du, Shuwen Yang, Yilun Jin 8.2019
In the 28th International Joint Conference on Artificial Intelligence (IJCAI). 2019.

Journal Papers.....

11. **SecureBoost: A Lossless Federated Learning Framework**
Kewei Cheng, Tao Fan, Yilun Jin, Yang Liu, Tianjian Chen, Qiang Yang 5.2021
In IEEE Intelligent Systems, 2021

12. Deep Convolutional Neural Network based Medical Concept Normalization

Guojie Song, Qingqing Long, Yi Luo, Yiming Wang, **Yilun Jin**

9.2020

In IEEE Transactions on Big Data, 2020

(* stands for *Equal Contribution*.)

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 , SQL
- **Language Skills:** Chinese (native speaker), English (proficient with speaking 26 in TOEFL, analytical writing 5.0 in GRE)
 - I take charge of writing in most of 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
- **Teaching Assistant**, *COMP4631: Computer and Communication Security*, The Hong Kong University of Science and Technology, Spring 2020
- **Teaching Assistant**, *COMP5631: Cryptography and Security*, The Hong Kong University of Science and Technology, Fall 2020
- **Teaching Assistant**, *COMP6211G: Federated Learning*, The Hong Kong University of Science and Technology, Spring 2021
- **Teaching Assistant**, *COMP3511: Operating Systems*, The Hong Kong University of Science and Technology, Fall 2021

Services

- **Program Committee Member/Reviewer:**
 - **2020:** TheWebConf (Poster & Demo), ICONIP
 - **2021:** AAAI, IJCAI, NeurIPS, NeurIPS Datasets and Benchmarks Track, ICONIP
 - **2022:** ICLR, IJCAI, ICML, TheWebConf (Poster & Demo), NeurIPS, NeurIPS Datasets and Benchmarks Track
- **Journal Reviewer:** IEEE BigData, IEEE T-ITS, Neural Networks, TMLR
- **Secondary Reviewer:**
 - **2020:** AAAI, ACL, NeurIPS

Awards

- **AAAI Student Scholarship**, AAAI, 2020
- **Best Research 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*.