

Tianshu Lyu

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📖 EECS, Peking University
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📍 Beijing

CAREER OBJECTIVE

Research Software Engineer

A self-motivated and an inspired team player. Intrigued and inclined towards areas of Recommendation, Social Network Analysis, and etc.

EDUCATION

PhD Candidate, PKU

Department of Machine Intelligence,
Peking University
Focus on Graph Mining
Expected Grad. July 2020

Bachelor, BJUT

Department of Computer Science,
Beijing University of Technology
Grad. June 2015

AWARDS

- First prize scholarship in scientific research of EECS, PKU
- Meritorious Winner in American National College Mathematical Contest in Modeling
- First prize in the China Undergraduate Mathematical Contest in Modeling
- Third prize in the National English Contest for College Students

SKILLS

Languages: C++, Python
Frameworks: Tensorflow
English: CET-6 582

HOBBIES

Hiking, Skiing, Piano

06.30.2019

INTERN EXPERIENCE

Recommendation Team, Hulu LLC

Research Software Developer Intern

Oct 2018 – Feb 2019

Beijing

- **Project Dp13n.** Designing and deploying a deep neural network model for movie recommendations in the Hulu homepage. A/B test achieves +40% CTR improvement than the old method.
- **Research Paper.** A research paper about the recommendation in Hulu is submitted to the CIKM'19 Applied Data Track.
- **AI Book.** Writing the Graph Neural Network chapter of the Hulu AI book, which will be published this summer.

Taobao Recommendation, Alibaba Group

Research Intern

May 2018 – May 2019

Beijing

- **Research Paper.** A research paper about network embedding is submitted to the Recsys'19.

Next Billion Users, Google

Software Engineer Intern

May 2019 – Present

Beijing

- **GPay Chatbot.** Deploying an AI-assisted Contact Center in GPay.

PUBLICATIONS

Network Embedding Recsys'19 1st author
Compositional Network Embedding for Link Prediction

Network Embedding CIKM'17 1st author
Enhancing the Network Embedding Quality with Structural Similarity

Community Detection ICDM'16 1st author
Efficient and Scalable Detection of Overlapping Communities in Big Networks

Recommender System WISE'18 2nd author
PUB: Product Recommendation with Users' Buying Intents on Microblogs

Network Embedding AAAI'18 2nd author
COSINE: Community-Preserving Social Network Embedding from Information Diffusion Cascades

Information Diffusion SIGIR'17 2nd author
Hierarchical Community-Level Information Diffusion Modeling in Social Networks

Node Centrality Under Review 1st author
Node Conductance: A Scalable Node Centrality Measure Based On Deepwalk

Network Embedding Under Review 1st author
RWSig: A Network Structural Signature Based on Random Walks

Recommender System Under Review 1st author
Content-embedding and Meta-learning for Hulu Recommendations

吕天舒

北京大学智能科学系 博士生
北京
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职业目标

研究型软件工程师

具备自驱力与技术能力的合作者
倾向推荐系统、社交网络分析、
移动支付等领域

教育经历

博士研究生, 北京大学

智能科学系 张岩导师
图结构数据挖掘
将于2020年7月毕业

学士, 北京工业大学

计算机科学与技术实验班
2015年毕业

获奖经历

北京大学优秀科研奖学金
美国大学生数学建模竞赛一等奖
中国大学生数学建模竞赛一等奖
全国大学生英语竞赛三等奖

技术能力

语言: Python, C++
框架: Tensorflow
英语: 大学英语六级 582

兴趣爱好

徒步, 滑雪, 钢琴

2019.10.1更新

实习经历

推荐算法团队, Hulu

2018.10 – 2019.2

实习研究型软件工程师

北京

Dp13n项目. 设计并实现Hulu网站首页的电影推荐模型。模型基于深度神经网络, A/B测试中较基线CTR提升40%。

学术论文. 所设计的模型已总结为论文形式, 投稿顶级会议CIKM。

科技书籍撰写. 负责《百面深度学习—算法工程师带你去面试》图神经网络一章的撰写工作, 即将出版。

淘宝信息流推荐团队, 阿里巴巴

2018.5 – 2019.5

实习研究员

北京

学术论文. 基于淘宝数据提出新的网络表示学习算法, 投稿论文被推荐系统顶级会议RecSys接收。

支付团队, 谷歌

2019.5 – 2019.8

软件工程师

北京

谷歌支付智能客服中心. 实现一个AI辅助的在线客服系统原型。

发表论文

网络表示学习 RecSys'19

第一作者

Compositional Network Embedding for Link Prediction

网络表示学习 CIKM'17

第一作者

Enhancing the Network Embedding Quality with Structural Similarity

社区发现 ICDM'16

第一作者

Efficient and Scalable Detection of Overlapping Communities in Big Networks

推荐系统 WISE'18

第二作者

PUB: Product Recommendation with Users' Buying Intents on Microblogs

网络表示学习 AAAI'18

第二作者

COSINE: Community-Preserving Social Network Embedding from Information Diffusion Cascades

信息传播 SIGIR'17

第二作者

Hierarchical Community-Level Information Diffusion Modeling in Social Networks

节点中心性度量 审稿中

第一作者

Node Conductance: A Scalable Node Centrality Measure Based on Deepwalk

网络表示学习 审稿中

第一作者

RWSig: A Network Structural Signature Based on Random Walks

推荐系统 审稿中

第一作者

Content-embedding and Meta-learning for Hulu Recommendations