

Yuwei Zhang

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EDUCATION

School of Computer Science, Fudan University

Shanghai, China

Bachelor of Computer Science, Jul. 2022(expected)

- Cumulative GPA: 3.83/4.0, School Rank:1/153

PUBLICATION

(# denotes Co-First author)

- Structural Hole Theory in Social Network Analysis: A Review.
Zihang Lin[#], **Yuwei Zhang[#]**, Qingyuan Gong, Yang Chen, Atte Oksanen, Aaron Yi Ding.
To appear: IEEE Transactions on Computational Social Systems (TCSS).

RESEARCH EXPERIENCE

Reviewing Structural Hole Theory in Social Network Analysis

Fudan University

Advisor: Prof. Yang Chen

Jan. 2020 – Mar.2021

- Provided a comprehensive review on the development of structural hole (SH) theory, SH spanner detection algorithms and applications in diverse fields
- Identified potential research trends in the area, with insights for facilitating researchers and service providers to better apply the theory
- Contributed to a paper accepted by **TCSS** (Co-First author)

Data Analysis of LBSLab, a Mobile-centric Data Collection Platform

Fudan University

Advisor: Prof. Yang Chen

Jan. 2021 – Present

- Performed analysis on the mobile check-in data of 467 students collected by LBSLab, a WeChat mini-program that collects users' heterogeneous activity data
- Analyzed the spatial and temporal patterns of the user behaviors and their influence on users' mood, with visualizations
- Constructed a paper in preparation to be submitted to Scientific Data

Mobile Application Usage Analysis and Prediction

Fudan University

Advisor: Prof. Yang Chen

Mar. 2020 – Present

- Explored the users' mobile app usage behaviors with regard to time and location
- Constructed an app usage graph to understand the co-occurrence of apps in users' app usage records
- Applied GCN to generate embeddings for the mobile apps and performed clustering
- Incorporating the app embedding serving as a global pattern into a LSTM-based prediction model to resolve data sparsity and cold-start problem

INDUSTRIAL EXPERIENCE

Unity

Shanghai, China

Software Engineer Intern

Mar. 2021 – Present

- Coordinating team meetings and organizing the documentation to improve the standardization of the software engineering process, directly reporting to the senior technical program manager
- Following up the projects under development and helping with progress management

IT department, Bank of Suzhou Co., Ltd

Suzhou, China

Project Management Intern, Test Management Center

Aug. 2020 – Sep. 2020

- Followed the progress and work quality of multiple testing groups, identified risk timely and reported to the manager
- Coordinated between multiple departments to push forward the completion and perfection of projects and prompt address of issues
- Wrote Python programs to generate SQL automatically from Excel files to achieve automatic maintenance of test data

SELECTED AWARDS

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| ○ Chinese National Scholarship (Top 1%) | Oct. 2020 |
| ○ Chinese National Scholarship (Top 1%) | Oct. 2019 |
| ○ Freshman Admission Scholarship of Tengfei College, Fudan (Top 2%) | Sep. 2018 |

SKILLS

- **Programming languages:** Python, Java, C/C++, JavaScript, MATLAB, HTML, CSS
- **Spoken languages:** Chinese-Native, English-Fluent (**TOEFL iBT:** 111)
- **Other skills:** photography, Final Cut Pro, Photoshop, Axure, Office