Yuwei Zhang

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EDUCATION

School of Computer Science, Fudan University   **Shanghai, China**

Bachelor of Computer Science, Jul. 2022(expected)
- o Cumulative GPA: 3.83/4.0, School Rank:1/153

PUBLICATION

(# denotes Co-First author)

- o 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*

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

- o Performed analysis on the mobile check-in data of 467 students collected by LBSLab, a WeChat mini-program that collects users' heterogeneous activity data
- o Analyzed the spatial and temporal patterns of the user behaviors and their influence on users' mood, with visualizations
- o 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*

- o Explored the users' mobile app usage behaviors with regard to time and location
- o Constructed an app usage graph to understand the co-occurrence of apps in users' app usage records
- o Applied GCN to generate embeddings for the mobile apps and performed clustering
- o 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*

o   Coordinating team meetings and organizing the documentation to improve the standardization of the software engineering process, directly reporting to the senior technical program manager
o   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*

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

SELECTED AWARDS

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

SKILLS

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