

Education

Zhejiang University, Hangzhou

MAJOR: GEOGRAPHICAL INFORMATION SCIENCE (BACHELOR'S DEGREE IN NATURAL SCIENCES)

Sept. 2016 - Jun. 2020

- Conferred with A in graduation thesis, with various backgrounds in Computer Science, GPA: 3.55/4.0.
- Core courses:
Data Structures (92), Geospatial Database (90), Quantitative Geography(93), Probability and Mathematical Statistics (91), Big Data Theory (97), Computer Graphics, Operating System, Computer Networks, GIS Programming (95), Web GIS (95), The New Progress in Geographic Information Science (97), Remote Sensing Information Engineering and Applications (93).

Research Experience

Digital media Computing & Design (DCD) Lab, Zhejiang University

Hangzhou, China

RESEARCH ASSISTANT | SUPERVISED BY PROF. YANG YANG, DR. JIARONG XU

Dec. 2019 - Mar. 2020 (To be continued)

- Adapted a novel anomaly detection framework to facilitate PPdai.com to find out more fraudsters efficiently.
- Investigated adversarial attack and defense on graphs and proposed a framework to increase the precision rate by 15% by adopting 'TRADES'.

Lab of Ubiquitous Computing, National University of Singapore

Singapore

RESEARCH ASSISTANT | SUPERVISED BY PROF. BRIAN Y. LIM, DR. YAN LYU

Aug. 2019 - Oct. 2019

- Applied deep reinforcement learning to public transportation recommendation with heterogeneous uncertainties as passenger comfort, waiting time, arrival time, increasing system's interpretability.
- Assited to analyse data and helped to design frameworks to facilitate urban planners considering the factors of fairness among citizens.

State Key Lab of CAD&CG, Zhejiang University

Hangzhou, China

RESEARCH ASSISTANT | SUPERVISED BY PROF. YUBO TAO

Aug. 2018 - Aug. 2019

- Mainly focused on Network Representation Learning(NRL), an emerging branch of ML that maps graph data to a low dimensional space.
- Maintained deep understanding on the NRL baselines: LE, Node2vec, LINE, graphwave and variants of GNNs.
- Gained better results on temporal-evolving networks embeddings by extending negative sampling to time sequences.(In submission)
- Made progress in subgraph patterns prediction by adopting 'Transformer' and proposed novel sampling strategies.(In submission)
- Proposed a framework based on motifs compression to optimize the baselines in both better efficiency and effectiveness. (In submission)

Projects

Renting Explore

PROGRAM LEADER | SUPERVISED BY PROF. FENG ZHANG

Jun. 2018 - Mar. 2019

- Led a group to investigate potential requirements in Chinese society, structured the whole program and developed websites in a self-motivated manner from scratch. Focused on the house renting market in China, established an open information sharing platform for the vast crowd of migrant people who are in need of rooms to live in.
- Dynamically retrived data from more than ten Chinese real estate agency websites(Lianjia, Anjuke, Beike, etc) to provide multiple choices for users. Users are able to explore their preference through ROIs(region of interests) and desired parameters of apartments.
- Trained a model which helped determine the authenticity of online houses using deep sequential models in a spatial-temporal manner.
- Designed a recommendation algorithm based on the preference commuting sites with road networks stored locally. Implemented a spatial index R-tree for boosting.
- Qualified with a National Software Copyright. (Register code: 2019SR0233722)

Resource Sharing System

CORE MEMBER

Dec. 2018 - May. 2019

- Developed a Wechat mini-program for the School of Earth Science in Zhejiang University to manage all types of public resources to satisfy students' needs varing from study rooms to specimens.

Honors & Awards

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|------|---|-----------------|
| 2018 | Honorable Mention , National GIS Developing Contest (Group Leader) | Beijing, China |
| 2018 | 2nd Prize , National GIS Contest (Core Member) | Henan, China |
| 2019 | 3rd Prize , "Challenge Cup" Undergraduate Curricular Science and Technology Contest of Zhejiang Province | Hangzhou, China |
| 2019 | 3rd Prize , The 19th Zhejiang University Programming Contest | Hangzhou, China |
| 2020 | Honorable Mention , The Interdisciplinary Contest in Modeling (Team Leader) | |

Skills

Programming C/C++, Python, JAVA, C#, JavaScript, Assembly

DevOps

Web Data Crawling, RDBMS(PostgreSQL with PostGIS, MySQL), GIS series(QGIS and ArcGIS, OSM, ENVI), SSM(JAVA Web), MEVN(MongoDB, Express, Vue, Node.js), Django, Machine Learning, Deep Learning Specializations, Hadoop, Spark, Linux

Languages Chinese(Native), English(current TOEFL 93, CET-6 610+)

Extracurricular Activity

Student Associate Union

CORE MEMBER

Sept. 2016 - Jun. 2017

- Organized the yearly conference on principals of student clubs.
- Popularized the 'superfine courses' provided by hundreds of clubs in Zhejiang University with an 500% increase in enrollment and offered a platform for them. (<http://www.zjustjpkc.com>)

Support Education

CORE MEMBER

Jul. 2017 - Aug. 2017

- Went to Longquan County(rural area in Lishui, Zhejiang) as a support education teacher, taught the kids at various ages with their English and maintain relationships with them up to now.

Volunteer

DEDICATED MEMBER

Oct. 2016 - PRESENT

- Spent Hundred hours on volunteer service in several Senior Centers in Hangzhou and gained the title of Star Volunteer of Zhejiang University.