Andrian **Li**

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Education

Zhejiang University, Hangzhou

B.S. IN GEOGRAPHIC INFORMATION SCIENCE   *Sept. 2016 - Jun. 2020(Expected)*

- With a minor in Computer Science & Law, GPA: 3.53/4.0 .
- Core courses: Data Structure and Algorithm Analysis(92), Geospatial Database(90), Quantitative Analysis in Geographic Information(93), Probability and Statistics(91), Big Data Theory(97), Computer Graphics, Operating System, Computer Networks, GIS Programming(95), Web GIS(95), Advance in GIS(97), Remote Sensing Engineering(93).

Research Experience

Lab of Ubiquitous Computing, National University of Singapore   *Singapore*

RESEARCH ASSISTANT | SUPERVISED BY PROF. BRIAN Y. LIM, YAN LYU   *Aug. 2019 - Oct. 2019*

- Apply 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 of frameworks to facilitate urban planners with consideration of fairness concerning citizens.

State Key Lab of CAD&CG, Zhejiang University   *Hangzhou, China*

RESEARCH ASSISTANT | SUPERVISED BY PROF. YUBO TAO   *Aug. 2018 - Aug. 2019*

- Main directions in Network Representation Learning(NRL), an emerging branch of ML that maps unstructured data to a low dimensional space.
- Maintain deep understanding on the NRL baselines: LE, Node2vec, LINE, graphwave and variants of GNNs.
- Gained better results on temporal-evolving networks embeddings in an intuitive way.(In submission)
- Made progress in subgraph patterns prediction by adopting 'Transformer'.(In submission)
- Proposed a computing framework based on motifs 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*

- Leaded a group to investigate potential requirements in Chinese society, structure the whole program and develop websites in a self-motivated manner from scratch. Focused on the 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.
- Dynamicly retrive 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 helps determine the authenticity of online houses using MLP and LSTM 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

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*

Skills

Programming	C/C++, Python, JAVA, C#, JavaScript, Assembly
DevOps	Web Data Crawling, RDBMS(PostgreSQL with PostGIS, MySQL), GIS series(QGIS and ArcGIS series, OSM, ENVI), SSM(JAVA Web), MEVN(MongoDB, Express, Vue, Node.js), Django, Mechine Learning, Deep Stearning Specializations, Hadoop ecosystem, 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*

- As a support education teacher to Longquan County(rural area in Lishui, Zhejiang), 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 of volunteer service in several Senior Centers in Hangzhou and gained the title of Star Volunteer of Zhejiang University.