

XU, HENG

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EDUCATION

TONGJI UNIVERSITY, COLLEGE OF SURVEYING AND GEO-INFORMATICS

SHANGHAI

Ph.D of Surveying and Mapping

Sept 2024 – present

- **Lab:** Tongji STSS-LAB(interested in Spatio-temporal Intelligent Sensing, supervised by Prof. Wei Huang)

TONGJI UNIVERSITY, GUOHAO SCHOOL

SHANGHAI

Bachelor of Applied Mathematics

Sept 2020 – Jun 2024

- **GPA:**3.6/5(equivalent to 81 on 100 bias) **CET-6:** 532
- **Honors:** Third-Class Scholarship for Undergraduate Students(2022), Individual Scholarship for Art Troupe(2024), Third Prize in China Undergraduate Mathematical Contest in Modelling (2022)

WORK EXPERIENCE

LOCATION PREDICTION MODEL BASED ON URBAN INDIVIDUAL MOBILITY DATA

SHANGHAI

Undergraduate Thesis

Sept 2023 – May 2024

- Developed a context-aware location prediction model integrating Transformer networks, LDA for environmental context, and Graph Convolutional Networks for location embedding, enhanced by a dual attention encoder-decoder architecture to improve prediction accuracy. Preprocessed and analyzed urban trajectory and POI data to evaluate the model's performance, demonstrating improvements over existing methods, with model design validated through sensitivity and ablation studies.

GRAPHICAL INTERFACE TO SOCIAL NETWORKS

SHANGHAI

Data structures course design

Oct 2021 – Jan 2022

- Designed an algorithm to identify potential social network connections based on mutual friends and group affiliations, and developed a graphical interface to visualize personal networks. Implemented features to discover and rank potential new connections according to mutual friend count and relevance.

LEADERSHIP & ACTIVITIES

TONGJI UNIVERSITY VOLLEYBALL ASSOCIATION

SHANGHAI

President

Sept 2021 – Jun 2024

- Responsible for the preparation and holding of many intramural volleyball events
- Manage the financial aspects of the association and reimburse them

TONGJI UNIVERSITY STUDENT ART TROUPE FOLK ORCHESTRA BRANCH

SHANGHAI

Lead Percussion Player

Mar 2021 – Sept 2023

- Participated in dozens of orchestra performances
- Responsible for the publicity and logistics of the orchestra

SKILLS & INTERESTS

- **Technical:** Proficient in Microsoft Office Suite, Python, MATLAB, LaTeX, and GIS software (e.g., ArcGIS, QGIS).
- **Languages:** Fluent in English and Mandarin
- **Interests:** Volleyball and Music