THE HONG KONG
POLYTECHNIC UNIVERSITY
香港理工大學
FACULTY OF CONSTRUCTION AND ENVIRONMENT
DEPARTMENT OF LAND SURVEYING AND GEO-INFORMATICS
建設及環境學院
土地測量及地理資訊學系

POSITIONS OPENING (Posted on 02-May-2022)

Post Specification: Research Assistant / Associate / Postdoctoral Fellow in Urban Computing & GeoAI
Location: Hong Kong
Principal Investigator: Yang Xu, Assistant Professor, LSGI (personal site: https://yangxu-git.github.io)

The Department of Land Surveying and Geo-Informatics (LSGI) at the Hong Kong Polytechnic University is seeking exceptional candidates to fill Research Assistant & Research Associate & Postdoctoral Fellow positions in the area of urban computing and geospatial artificial intelligence (GeoAI). The appointees will assist the project leader in one or more of the following areas:

(1) Data driven human mobility mining and modeling

(2) Travel recommender system for urban tourists

(3) Activity and agent-based models for tourism planning

(4) Deep learning algorithms for urban traffic prediction & travel demand forecast

QUALIFICATIONS:

Applicants for the **Postdoctoral Fellow** post should have a doctoral degree or an equivalent qualification in a related discipline. Applicants for the **Research Assistant / Associate** post should have an honours degree or an equivalent qualification in a related discipline. Candidates with master or Ph.D. degree, and those with strong mathematical and programming skills are especially welcome.

- Experiences in working with large-scale mobility datasets (e.g., mobile phone data, smart card transactions, taxi GPS trajectories, geocoded social media) are welcome;
- Practical skills in Python and mainstream GIS software are expected;
- Experiences in mainstream deep learning frameworks (PyTorch, TensorFlow) are expected;
- Good written and communication skills (English);
- Experiences with agent based modeling and discrete choice models are a plus.

For interested applicants, please contact Dr. Yang Xu at yang.ls.xu@polyu.edu.hk. The applicants should also attach a CV, detailing relevant research experiences, and publications if any.