

Yueyang Yi

(+852) 9141 9635 | yueyangyi@cuhk.edu.hk | yi.yueyang@outlook.com | www.yueyangyi.com

EDUCATION

Katholieke Universiteit Leuven

Master of Science in Statistics and Data Science

Oct. 2018 – July 2023

Leuven, Belgium

University College London

Master of Science in Earthquake Engineering with Disaster Management

Sep. 2017 – Jan. 2019

London, UK

University of Sheffield

Bachelor of Engineering (Honours) in Civil Engineering

Sep. 2014 – June 2017

Sheffield, UK

RESEARCH EXPERIENCE

Big Data Research Centre, Chinese University of Hong Kong

Research Assistant

Aug. 2023 – July 2024

Hong Kong SAR

- Developed a prostate cancer screening score system for predicting cancer risk among Asian populations on the basis of ordinal logistic regressions and demographic characteristics
- Analysed electronic medical records of multi-cancer screenings in the region, and conducted cost-effectiveness analyses for the newly proposed screening approaches
- Performed factor analyses on responses to the questionnaires measuring nurses' attitudes towards AI's role in computer-aided detection, diagnosis and intervention in the clinical setting of gastroenterology

Water Equity Lab, University of California, Irvine

Visiting Student

July 2019 – Aug. 2019

Irvine, USA

- Investigated the gap between engineering and economic understandings of the monetary flood risk
- Studied on the strategies that popularise flood insurance in low-income countries with propensity score matching and difference in differences

INDUSTRIAL EXPERIENCE

IDD/IDS, United Nations ESCAP

Intern

June 2022 – Nov. 2022

Bangkok, Thailand

- Contributed to the Asia-Pacific Information Superhighway Platform, collected ICT- and digital-related databases and publications, and developed a look-up tool and wrote a technical guide on web-site developments
- Conducted research on applying digital climate data in Asia-Pacific, and analysed digital connectivity data

R&D, SCOR

Intern

June 2018 – Aug. 2018

London, UK

- Gathered, verified, and coordinated catastrophic catalogues used for building a platform of disaster-induced losses
- Established cartographic standards and quality assurance/quality control processes, managed data in accordance with defined standards, created maps, and performed geospatial analyses and visualisations in support of projects

ACADEMIC PROJECTS

Master's Thesis | *R, QGIS*

Sep. 2020 – June 2023

- "Refining Population Mapping with Nighttime Lights: A Bayesian Spatiotemporal Approach with SPDE-INLA"
- The proposed approach provides an enormous and untapped opportunity to densify spatial and temporal resolutions of any gridded population data, with assistance of easy-to-measure or hard-to-change ancillary data
- The proposed approach represents a significant step towards a combination of mainstream "top-down" and rising "bottom-up" approaches that makes the most of census and survey data

Master's Thesis | *ArcGIS*

June 2018 – Jan. 2019

- "A Novel Nighttime-Lights-Based Framework for Large-Scale Flood Risk Assessment and Mapping"
- A novel framework of quickly calculating large-scale direct monetary risk induced by fluvial floods was established on the basis of a regression analysis on the relationship between population counts and nighttime light strengths

TECHNICAL SKILLS

Languages: Mandarin (Native), English (Fluent), French (CEFR A2)

Toolbox: R, SAS, Python, MATLAB, JMP, BUGS, JAGS, INLA, QGIS, ArcGIS, AWS, Microsoft Office, L^AT_EX