Yueyang Yi

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Education

University of Leuven Oct. 2018 – Sep. 2022
Master of Science in Statistics and Data Science *Leuven, Belgium*

University College London Sep. 2017 – Jan. 2019
Master of Science in Earthquake Engineering with Disaster Management *London, UK*

University of Sheffield Sep. 2014 – June 2017
Bachelor of Engineering (Honours) in Civil Engineering *Sheffield, UK*

Research Experience

Water Equity Lab, University of California, Irvine July 2019 – Aug. 2019
Visiting Researcher *Irvine, USA*

- Studied on the strategies that popularise flood insurance in the developing countries with PSM-DID
- Investigated the gap between engineering and economic understandings of the monetary flood risk

Industrial Experience

IDD/IDS, United Nations ESCAP June 2022 – Nov. 2022
Intern *Remote*

- Contributed to the Asia-Pacific Information Superhighway Platform programme, collected ICT- and digital-related publications, and developed a look-up tool and visualised the partnerships with interactive maps
- Conducted research on applying digital climate data in Asia-Pacific

R&D, SCOR June 2018 – Aug. 2018
Intern *London, UK*

- Contributed to the new interactive platform of natural disaster losses, registered and visualised catastrophic catalogues, and smoothed characteristics of inputs along administrative borders

Projects

Master's Dissertation | *R, QGIS, Alibaba ECS* Sep. 2020 – Aug. 2022

- "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 "bottom-up" approaches that makes the most of census and survey data

Master's Dissertation | *ArcGIS, Microsoft Excel* June 2018 – Jan. 2019

- "A Novel Nighttime-Light-Based Framework for Large-Scale Monetary 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

Bachelor's Dissertation | *SPHysics* Mar. 2017 – June 2017

- "Smoothed-Particle Hydrodynamics Modelling of Free Surface Flows"
- The characteristics of wave propagation of free surface flows were modelled with smoothed-particle hydrodynamic approach with dam breaking as an example

Skills

Natural Languages: Mandarin (Native), English (Fluent), French (CEFR A2)
Programming Languages: MATLAB, R, SAS, Python, SQL, Vega, LaTeX
Non-Engineering Software: Microsoft Office, Alibaba ECS, JMP, OpenBUGS, QGIS, ArcGIS
Engineering Software: AutoCAD, GSA, SPHysics, LimitState: Geo, SeismoStruct, SeismoSignal, SeismoMatch, GaLa, FRACAS, FLAC 2D, REXEL, ETABS, PACT, DEEPSOIL