Boxiang Tang

Civil & Environmental Engineering bursontung97@ucla.edu
University of California, Los Angeles 310-447-4986

Education

University of California, Los Angeles

- Ph.D. Hydrology and Water Resources Expected Jun. 2023
  - 2018 UCLA Dean's Fellowship and C&EE Department Fellowship, 2020 Robert L. Wiegel Scholarship for Coastal Studies
  - Focus: Quantitative urban coastal compound flood modeling and assessment with numerical hydrodynamic models and joint probability analysis
  - Minor Statistics Courses: Geo-stats, Intro to Data Science, Statistical Computing, Matrix Analysis, etc.
- M.S. Civil Engineering (Hydrology and water Resources Engineering Track) Jun. 2020

Hohai University, Nanjing China

- B.E. Water Engineering Jun. 2018
  - 2014 Excellent Student Leader of the year, 2015 Scholarship of Academic

Experience

- **Coastal Engineer Intern at Moffatt & Nichol** (part-time) Oct. 2021 - Present
  - Performed hydraulic research and numerical modeling using HEC-RAS to support channel redesign project.
  - Prepared engineering calculation and cartography using ArcGIS Pro to support channel sedimentation analysis project.

- **Research Assistant at UCLA** Jul. 2018 - Present
  - Research: Conducted analysis and visualization of the shoreline dynamics and topographic characteristics with ArcGIS and MATLAB. Embayment flow dynamics Modeling; Coastal compound flood simulation with Delft3D-FM considering multiple flood pathways and urban infrastructures (seawall, drainage).
  - Survey: Lead bathymetric data collection with Acoustic Doppler Profiler. Participated topographic survey with Drone and Real Time Kinematic unit. Deployed pressure sensors in channel and harbors.

- **Teaching Assistant at UCLA**
  CEE 151 (Intro to Water Resources Engineering) Winter 2019~2022
  Taught weekly discussion lectures about open channel flow, pressurized pipe flow, etc., for 40-50 undergraduates. Gave tutorials for numerical hydraulic model HEC-RAS for class final projects (Rating 8.36/9).
  CEE 152 (Hydraulic and Hydrologic Design, project-based course) Spring 2022
  Helped undergraduates with analysis and design of hydraulic and hydrologic systems, e.g., stormwater management systems, wastewater collection systems, and constructed wetlands, etc.

Skills

- **Computer skills**
  - Operation System: Windows and Linux.
  - Programming Language: MATLAB, Python, R, Julia, SQL
  - Software: ArcGIS, QGIS, Delft3D-FM, HEC-RAS, AutoCAD, EPANET, SWMM
- **Certificates**
  EIT; Remote Pilot Certificate; California Boater Card; Open Water Diver (future scientific diver)
- **Language**
  Full professional proficiency in English; Native Chinese Speaker