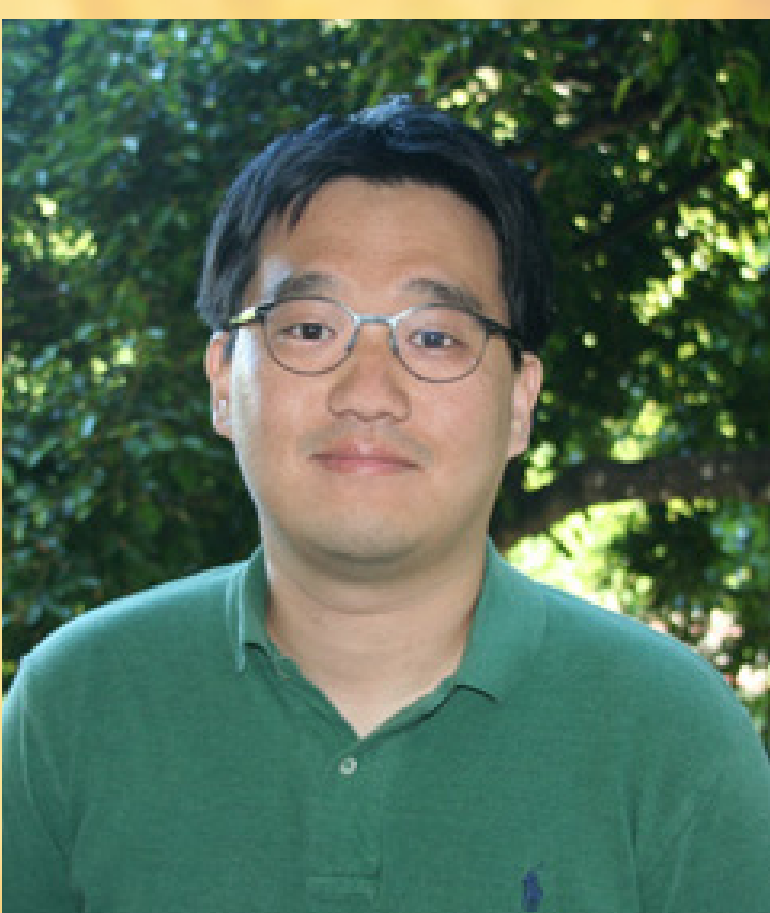


Jonghyun “Harry” Lee

Associate Professor

“One can benefit from applied mathematics, statistics, and computer programming to understand underlying natural phenomena and perform relevant projects successfully.”

Dr. Lee joined the WRRC “ohana” (family) and the department of CEE in 2017 as part of the Hawaii EPSCoR ‘Ike Wai project “Securing Hawai‘i’s Water Future.” A civil and environmental engineer, Harry hopes to integrate his separate research topics on groundwater, surface hydrology, and nearshore environments to develop a holistic model supporting integrated management of water resources from “Mauka to Makai” (mountain to ocean) in Hawaii.



EDUCATION

- BS, Seoul National University
- MS, Colorado State University
- PhD, Stanford University

INTERESTS

- Numerical modeling of variable density water flow
- Contaminant transport in coastal areas
- Uncertainty quantification in water resources modeling
- Physics-guided machine learning for water resources management

CURRENT PROJECTS

- Geothermal energy recovery operation
- Carbon CO₂ sequestration
- Seawater intrusion modeling
- Gas leakage detection and management
- Nearshore bathymetry identification