

Sayed Bateni

Associate Professor

“I would like to conduct extensive research on crucial issues that will benefit Hawaii, such as forecasting floods, wildfires, and landslides.”

Professor Sayed Bateni has been honored numerous times by the UH College of Engineering for his outstanding contributions to the research community. As a joint appointee of WRRRC and CEE, the quality of his research has enabled him to secure large grants from a diverse group of organizations, including USDA, Hawaii State DOT, USGS, and FEMA and HI-EMA.

Sayed received the prestigious Fulbright Scholarship in 2020 to conduct water research in Qatar, one of the fastest warming areas in the world. In 2021, he was a member of the Qatar Foundation and NASA OASIS mission science team where his research focused on merging remotely sensed deep-layer soil moisture observations into data assimilation and machine learning approaches to estimate the groundwater in arid areas.



EDUCATION

- BS, Civil and Environmental Engineering, Isfahan University of Technology
- MS, Civil and Environmental Engineering, Sharif University of Technology
- PhD, Civil and Environmental Engineering, Massachusetts Institute of Technology

INTERESTS

- Earth remote sensing
- Land-atmosphere interaction
- Data assimilation: Techniques, development and applications
- Optimization techniques and parameter estimation in hydrology
- Application of artificial intelligence methods

CURRENT PROJECTS

- Real time monitoring of scour depth around bridge piers and the accurate estimation of scour depth
- Near real time wildland fire risk prediction system for Hawaii to improve readiness, public safety, and risk mitigation
- Forecasting daily reference evapotranspiration and rainfall for water resources conservation and sustainable agriculture