



Khalid Osman

Assistant Professor of Civil and Environmental Engineering and Center Fellow, by courtesy, at the Woods Institute for the Environment

Bio

BIO

Khalid Osman joined the department as an Assistant Professor of Civil and Environmental Engineering in autumn of 2022. His research spans the use of mixed quantitative-qualitative methods to assess public perceptions of water infrastructure, water conservation efforts, and the management of existing infrastructure systems to meet the needs of those being served by the systems. He currently is focused on the operationalization of equity in water sector infrastructure, conceptualizing equity in decentralized water and sanitation systems, water affordability, and stakeholder-community engagement in sustainable civil infrastructure systems for achieving environmental justice.

Khalid was the holder of a Bill and Melinda Gates Millennium Scholars Graduate Fellowship and also a Ford Foundation Predoctoral Fellowship.

ACADEMIC APPOINTMENTS

- Assistant Professor, Civil and Environmental Engineering
- Center Fellow (By courtesy), Stanford Woods Institute for the Environment

PROFESSIONAL EDUCATION

- BS, University of Portland , Civil Engineering (2016)
- MS, University of Texas at Austin , Civil Engineering (2018)
- PhD, University of Texas at Austin , Civil Engineering (2022)

LINKS

- Osman Lab: <https://www.osman.science/>

Teaching

COURSES

2023-24

- Equitable Infrastructure Solutions: CEE 145E, CEE 245E (Win)
- Sustainable Innovation for Disaster Resilience: SUSTAIN 101D (Aut)

2022-23

- Equitable Infrastructure Solutions: CEE 145E, CEE 245E (Win)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Lorelay Mendoza Grijalva, Celina Scott-Buechler, Jenny Skerker

Postdoctoral Faculty Sponsor

Aggrey Muhebwa

Master's Program Advisor

Chween An Beh, Kirsten Housen, Amanda Klepper, Dulce'Celeste Martinez, Jia-Yi Tham, Laura Vanderweyen, Xinyi Yang

Doctoral Dissertation Reader (NonAC)

Melody Spradlin

Doctoral (Program)

Shuojia Fu, Allisa Hastie, Clara Medina, Aadhityaa Mohanavelu, Oluchi Obinegbo, Kasun Raigama, Sam Shrivatsa

Publications

PUBLICATIONS

- **Communities conditionally support deployment of direct air capture for carbon dioxide removal in the United States** *COMMUNICATIONS EARTH & ENVIRONMENT*
Scott-Buechler, C., Cain, B., Osman, K., Ardoin, N. M., Fraser, C., Adcox, G., Polk, E., Jackson, R. B.
2024; 5 (1)
- **Environmental Science for the Betterment of All** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Gibson, J., Osman, K. K., Conroy-Ben, O., Giang, A.
2023
- **Equity in Water Resources Planning: A Path Forward for Decision Support Modelers** *JOURNAL OF WATER RESOURCES PLANNING AND MANAGEMENT*
Fletcher, S., Hadjimichael, A., Quinn, J., Osman, K., Giuliani, M., Gold, D., Figueroa, A., Gordon, B.
2022; 148 (7)