Lauren Stadler, PhD
Assistant Professor, Civil & Environmental Engineering, Rice University; Research Faculty, NEWT Nanosystems Engineering Research Center for Nanotechnolgy-Enabled Water Treatment
Notable Collaborative Accomplishment Highlight: Houston Wastewater Surveillance Program

Lauren Stadler brings 13 years of leadership experience in civil and environmental engineering and a vision to reimagine wastewater systems as a valuable source of information for the protection of public health. Stadler is an environmental engineer whose research focuses on wastewater-based epidemiology, environmental antibiotic resistance, wastewater treatment and resource recovery, and environmental synthetic biology.

In May 2020, Stadler began working with the Houston Health Department and Houston Water to establish and implement protocols for Houston's wastewater initiatives to track community COVID-19 infection dynamics. Her laboratory has developed a highly sensitive assay to reliably detect low concentrations of viral load in wastewater. Additionally, Stadler has worked extensively with collaborators to develop and implement methods for the detection of viral variants and antibiotic resistance genes and bacteria in wastewater.

Stadler joined the faculty in the Civil and Environmental Engineering Department at Rice University in 2016 as an assistant professor after completing her doctoral degree in environmental engineering at the University of Michigan. She was named a "New Engineer to Watch" by the Water Environment Federation, a Gulf Research Program Early Career Fellow by the National Academies of Science, Engineering, and Medicine, and a Johnson & Johnson WiSTEM2D Engineering Scholar. Results of her work have been published in over 30 peer-reviewed journal publications and disseminated at numerous conferences and workshops.

More information can be found at: https://hou-wastewater-epi.org/about/lauren-stadler