



Naomi Keena

Naomi Keena is an architect, interdisciplinary researcher at Yale Center for Ecosystems in Architecture (Yale CEA), and lecturer at the Yale School of Architecture. Keena's research investigates visual analytics combined with transformative building technologies as a means to study socio-ecological factors within architectural design, towards the mitigation of adverse environmental impacts. Keena's current research on circular built environments focuses on broadening the space and time upon which we consider architectural and urban design, to understand both the work of the techno-sphere in constructing our urban environments and that of the geo-biosphere in sustaining such development.

She is a co-founder of Clark's Crow, a parametric tool that aims to promote awareness of the impact of different design options through a biophysically-based ecological accounting method in the early stages of design-development. She has contributed to the SBC 'Global State of Play: Circularity in the Built Environment' 2020 report by authoring the regional report for North America. Working in an interdisciplinary realm, Keena co-founded SEVA (Socio-Ecological Visual Analytics), a proposed new conceptual network of analytical techniques designed to quantify, visualize, characterize, and communicate socio-ecological factors within our built environments. SEVA technology is used by, among others, the Bill and Melinda Gates Foundation and UN Environment's World Environment Situation Room and was showcased at the international Grand Challenges meetings in New Delhi, London, and Washington D.C. as well as the World Economic Forum.

Keena earned a Ph.D. in Architectural Sciences from the Center for Architecture Science and Ecology (CASE), Rensselaer Polytechnic Institute, NY. She is a Fulbright Fellowship recipient and has published and presented her design research widely in the areas of architecture, circular economy, computer science, data visualization, systems thinking in design-driven interdisciplinary research, and environmental policy.

Website: <https://www.cea.yale.edu/naomi-keena>