

The Programmable City

Seminar Series: 2016/17, Seminar 1

Understanding Human Behavior, the Environment and Our Cities Through Measurement & Analysis

With the aim of influencing the design of future cities, Nyhan's research focuses on modeling and predicting interactions between human populations, urban systems, the natural environment and the built environment. Nyhan examines data gathered from various human-driven activities, and applies mathematical models to describe the underlying principles governing these separate systems and their interactions. By leveraging digital information such as data from cellular networks, GPS navigation systems and distributed networks of sensors, Nyhan develops compelling new approaches to study the interplay between human behavior, the environment and health. In her presentation, Nyhan will discuss a number of studies, including a recently published paper determining the impact of using mobile devices to track the movements of millions of people in New York City, for quantifying population exposure to urban pollution. This work has been featured in the Guardian UK, the Guardian US, MIT News, NPR and numerous other online media publications.

Dr. Marguerite Nyhan is a Post-Doctoral Researcher at Harvard University, based in the Department of Environmental Health.

16:00-18:00, Tuesday October 11th, 2016

Room 2.31, Iontas Building, North Campus, Maynooth University