**Computational Epidemiology Research**

Dr. Alberto Segre

Network science is the study of interconnections, independent of whether they occur in the social, technological, or physical worlds. Essentially a data-driven science with early roots in graph theory, combinatorics, sociology, physics and engineering, networks are the basis for models in many different disciplines. In this talk, I will describe current work in the University of Iowa Computational Epidemiology group (<http://compepi.cs.uiowa.edu/>), where our research involves the use of network models and computational tools to simulate, visualize and, in general, better understand the spread of disease. Our goal is to inform public policy decisions with respect to disease surveillance, disease prevention measures, and outbreak containment.