



Point, Line & Data: New methods for understanding complex data, from storytelling to machine learning

Mauro Martino

Cognitive Visualization Lab at IBM Watson in Cambridge, MA

Abstract: The aesthetics of science is changing, the diffusion of data visualization tools is enabling a revival of beauty in scientific research. More and more papers are presented with seductive images, convincing videos, and sharp interactive tools. Scientific storytelling will be discussed with 2 case studies: "Charting Culture, 2014", and "Rise of partisanship, 2015". In the second part of the talk we explore the connection between Machine Learning & Data Visualization. We will see together 3 projects: News Explorer - exploration of real-time news, Ted Watson - exploration of a large corpus of videos, and Watson 500 - the analysis of relationships between entities and topics in a specific corpus of data. We encourage the public to use these tools before the talk:

<http://news-explorer.mybluemix.net/>

<http://watson.ted.com/>

<http://watson500.mybluemix.net/>

Jointly organized by the Data Science program and the Cyberinfrastructure for Network Science Center, this talk is partially supported by Indiana University's Consortium for the Study of Religion, Ethics and Society, a consortium sponsored by the Vice President for Research Office

Bio: Mauro Martino is an Italian expert in data visualization based in Boston. He created and leads the Cognitive Visualization Lab at IBM Watson in Cambridge, Massachusetts, USA. Martino's data visualizations have been published in the scientific journals Nature, Science, and the Proceedings of the National Academy of Sciences. His projects have been shown at international festivals including Ars Electronica, and art galleries including the Serpentine Gallery, UK, GAFTA, USA, and the Lincoln Center, USA.