DATA VISUALIZATION AT CCIS

We have a growing focus on data visualization at Northeastern University across faculty in the College of Computer and Information Science (CCIS), Art & Design, Journalism, Engineering, and the Library. We have a rich tradition of working on meaningful problems in collaboration with invested partners.

Professors Dunne and Borkin have five open and funded PhD positions for visualization projects across four PhD programs. Find them at VIS or email them to learn more!

**Areas of Investigation**

- Perception and cognition
- Data storytelling
- Analytic provenance
- Exploratory data analysis
- Coordinated views and interactions
- Tree/hierarchical data
- Network data
- Multidimensional data
- Geospatial data
- Uncertain, missing, erroneous data
- Temporal event sequences
- User interface design
- Interaction design
- Evaluation methodologies

**Specific Domains of Interest**

- **Healthcare diagnostic** and treatment decision support including diabetes, neurology, ophthalmology
- **Digital humanities**, including networks of concepts in humanities texts, text and timeline visualizations
- **Epidemiology**, including the spread of infectious disease
- **Cybersecurity**, including unmanned autonomous system analysis
- **Astronomy and physics**, including 3D visualization and multidimensional

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