

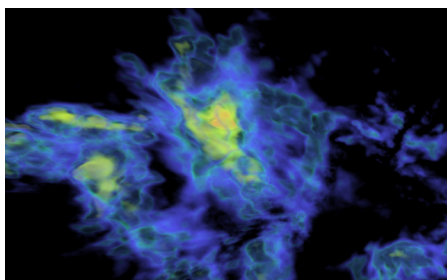
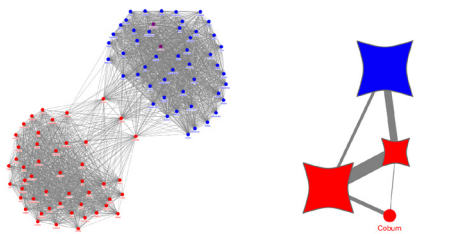
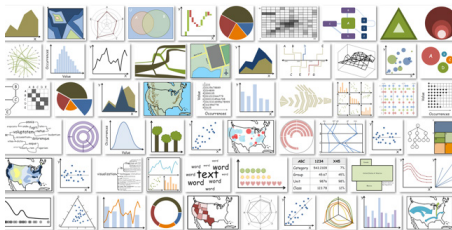
NORTHEASTERN UNIVERSITY KHOURY COLLEGE OF COMPUTER SCIENCES

PHD PROGRAMS

- *PhD in Computer Science*
- *PhD in Personal Health Informatics*
- *PhD in Network Science*
- *PhD in Cybersecurity*

LEARN MORE ABOUT DATA VISUALIZATION AT KHOURY

visualization.khoury.northeastern.edu



DATA VISUALIZATION AT KHOURY

Data visualizations leverage the impressive human visual bandwidth so users can spot clusters, gaps, trends, outliers in data within a fraction of a second. Interactive visualizations can be highly effective tools for exploring complex data, gaining confidence in algorithm results, and communicating findings with others.

We have a growing focus on visualization at Northeastern University, and we have a rich tradition of collaborating on meaningful problems with invested partners.

Areas of Investigation

- Perception and cognition
- Data storytelling
- Immersive analytics / VR
- 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
- **Cybersecurity**, including unmanned autonomous system analysis
- **Astronomy and physics**, including 3D visualization and multidimensional
- **Digital humanities**, including networks of concepts in humanities texts, text and timeline visualizations
- **Immersive analytics**, including basic principles and evaluation in VR
- **SQL Query Visualization** to promote understanding logical underpinnings



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