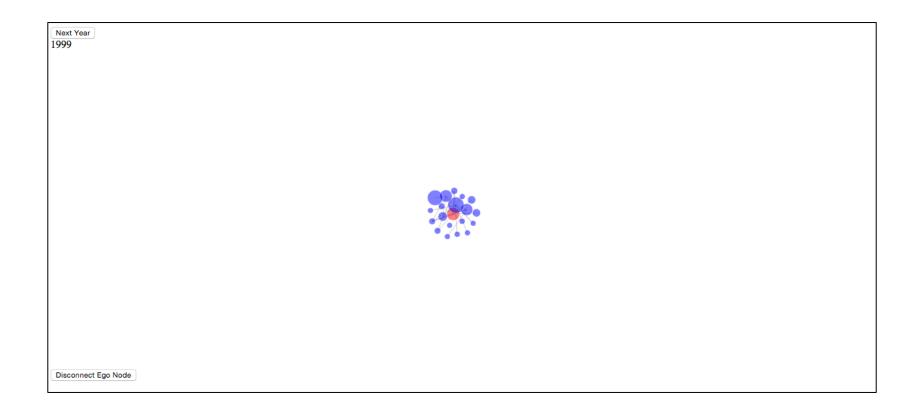
Visualizing Scholarly Impact over Time

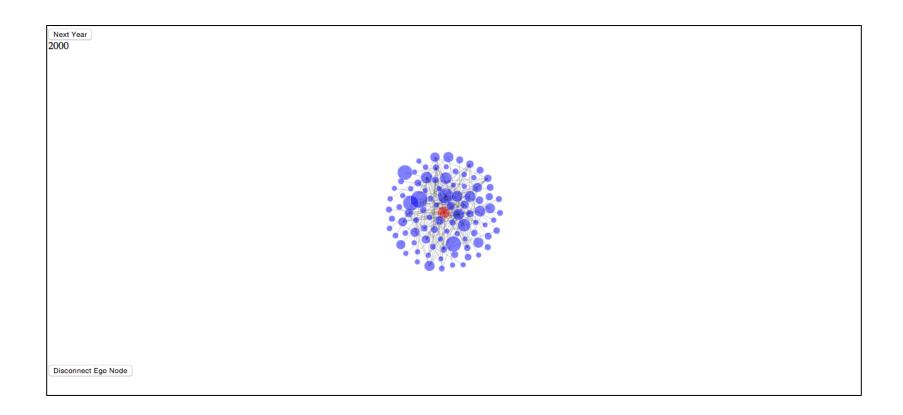
Jason Portenoy and Muhammad Raza Khan

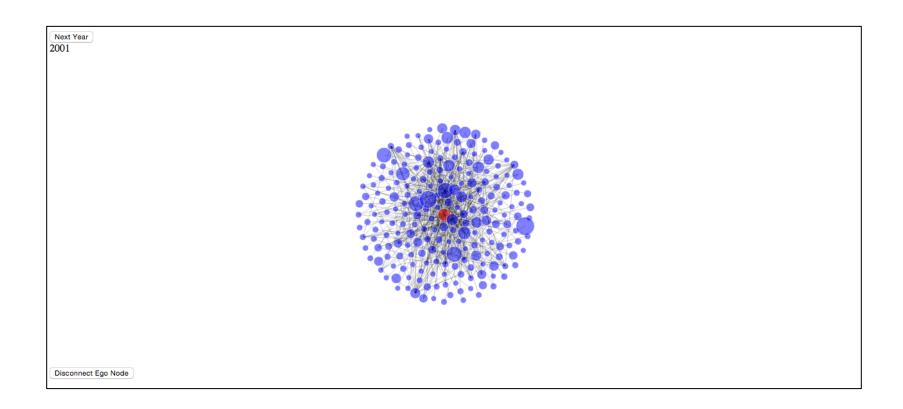
Goal

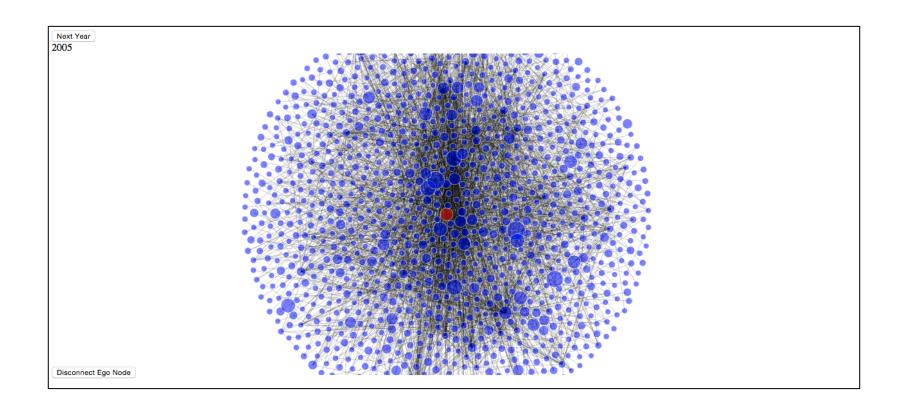
- Create a compelling narrative showing the influence that a particular researcher or research paper has had in scholarship.
- Use a node-link diagram:
 - Nodes = papers
 - Edges = citations between papers
- Watch the network develop over time.

Next Year		
Init		
Init		
Disconnect Ego Node		

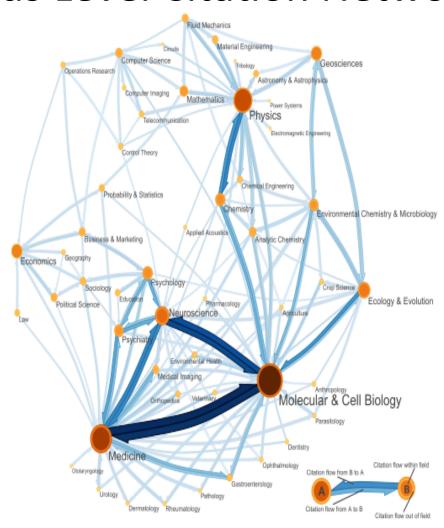






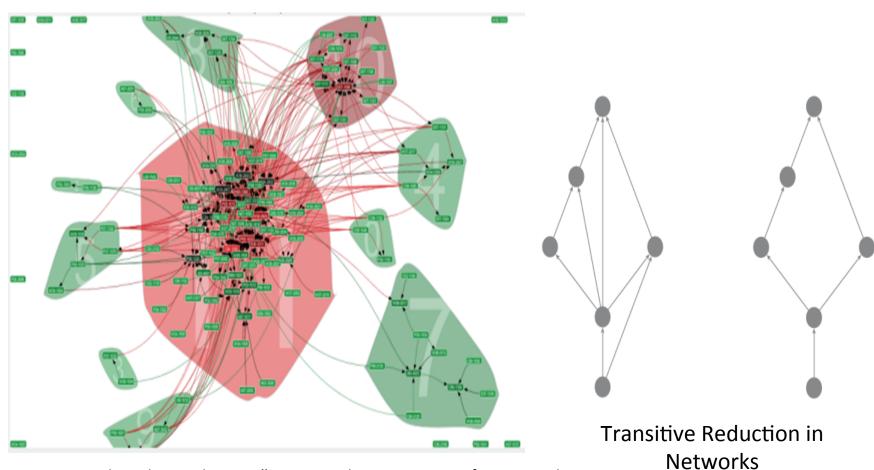


Related Work: Fields Level Citation Networks



M. Rosvall and C. T. Bergstrom, "Maps of random walks on complex networks reveal community structure," Proceedings of the National Academy of Sciences, vol. 105, no. 4, pp. 1118–1123, Jan. 2008.

Related Work: Paper-Level Citation Networks



N. J. van Eck and L. Waltman, "CitNetExplorer: A new software tool for analyzing and visualizing citation networks," arXiv:1404.5322 [physics], Apr. 2014.

Questions for You

- How to best deal with the hairball problem?
 - We have data on clusters (research fields) and influence (based on network structure).
- Most effective ways to provide context?
- Alternatives to building the network by year?