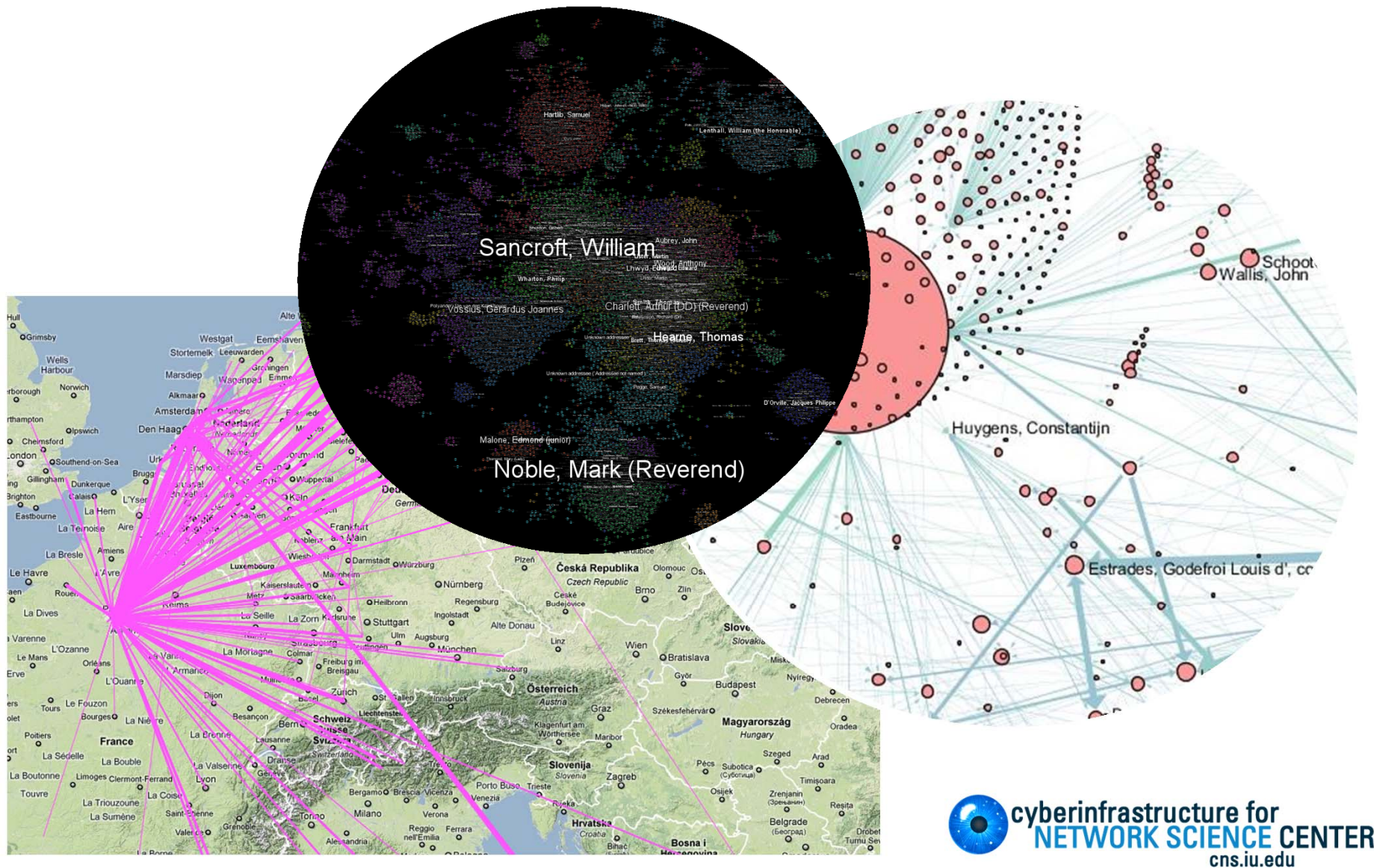


Scott Weingart, Ph.D. Student | @scott_bot | scbweing@indiana.edu | www.scottbot.net
CNS Open House | November 3, 2011 | 4-6pm | Wells Library 001 | Indiana University

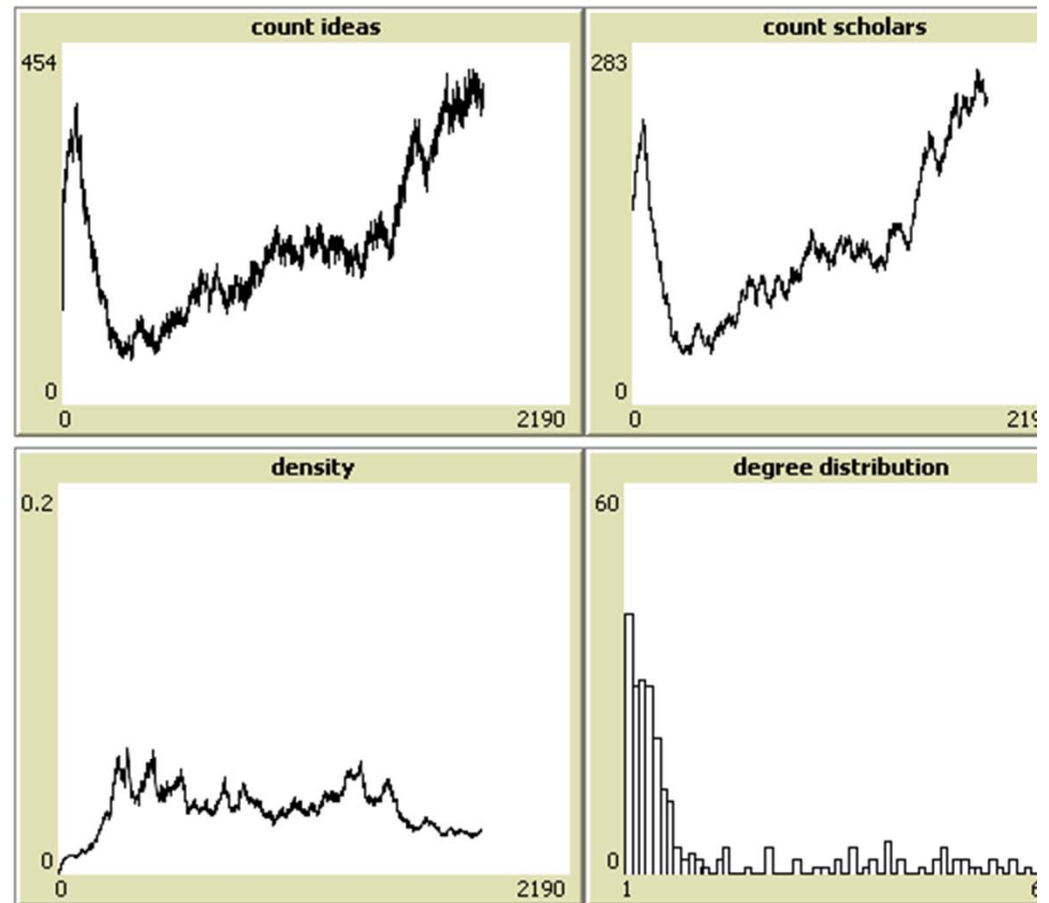
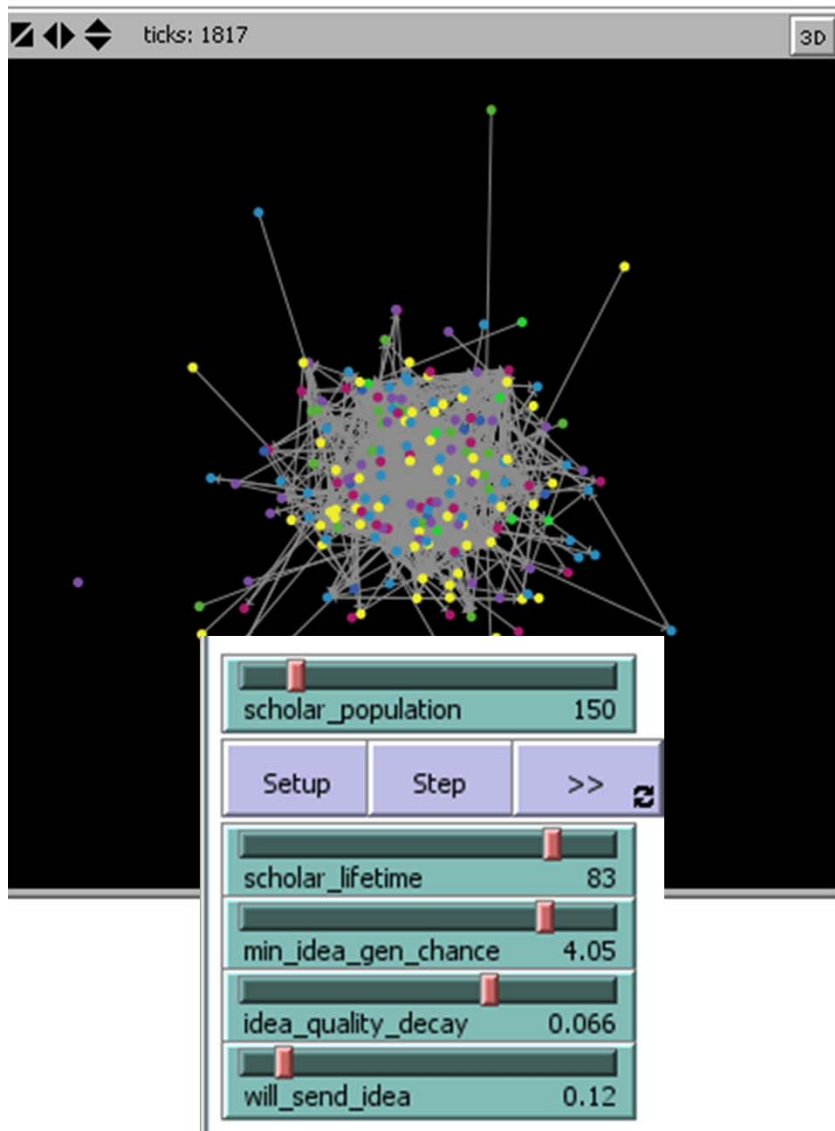
Finding Scholarly Communities Then and Now

The Nature of Historical Evidence.
Modeling the History of Scholarship.
Predicting the Future of Science.

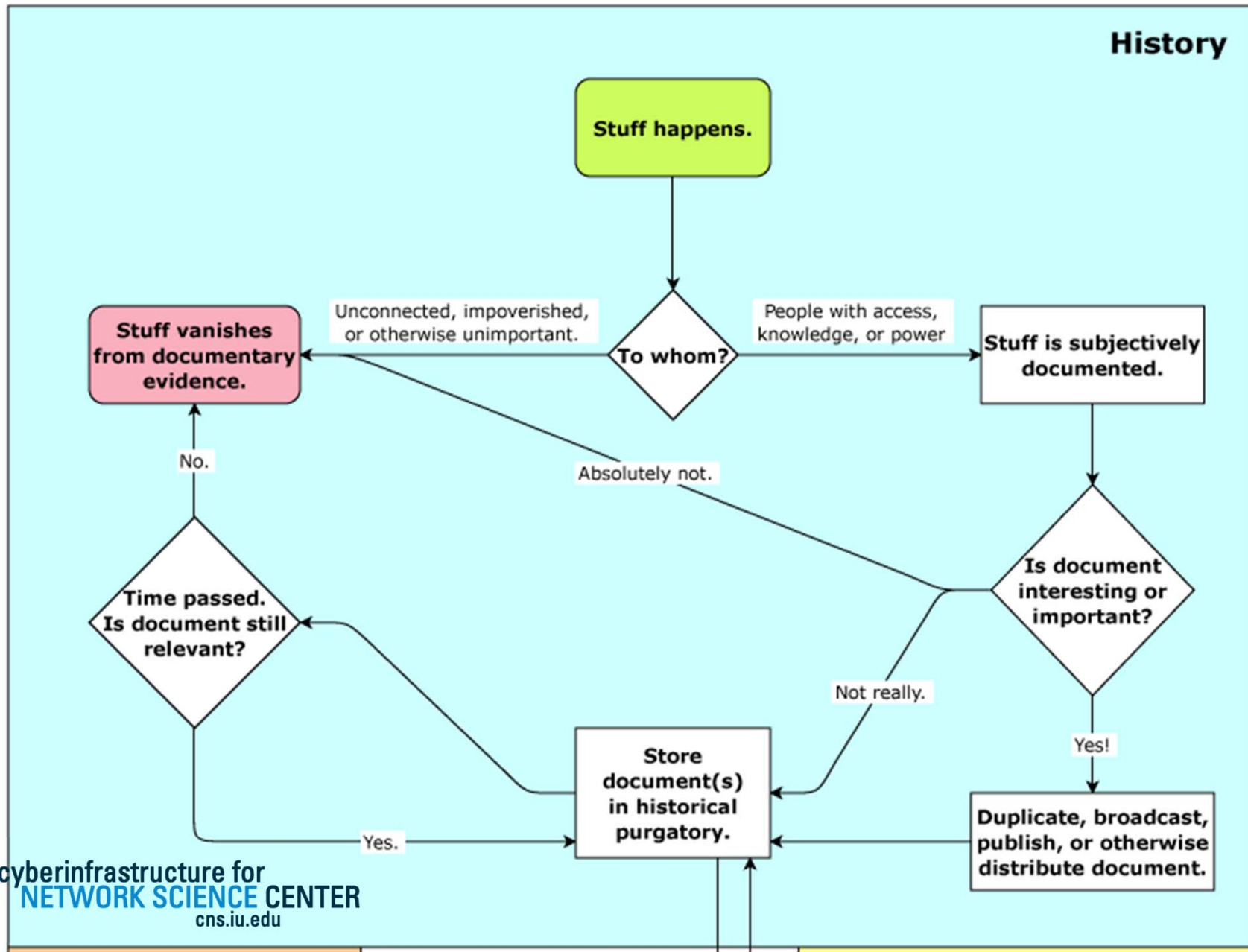
Mapping the Republic of Letters



Modeling the Republic of Letters

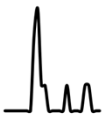



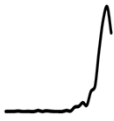


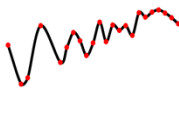
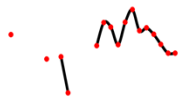
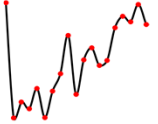



The Nature of Historical Evidence



Mixed Indicators Model for Identifying Emerging Research Areas

- Sudden increase in specific word frequency
- Speed with which new authors attracted
- Changing interdisciplinarity of cited references

Indicators	Nano*	RNAi	Impact Factor	h-Index	Insight Gains
# Bursting Words			0		Topical Change
# New Authors					Topical Brain Drain
Interdisciplinarity of References					Diversity of Base Knowledge