

- Virginia Tech
- Lead Investigator:

Dr. Bernice Hausman (English)

Current Team Members:

Dr. Naren Ramakrishnan (Computer Science)

Dr. Chris North (Computer Science)

Dr. Tom Ewing (History)

Dr. Clare J. Dannenberg (English)

Dr. Betsy McDonel Herr

(Institute for Society, Culture and Environment)

Mr. Jon Greene

(Institute for Critical Technology and Applied Science)



Research Interests

• **Dr. Hausman: Cultural and Rhetorical Studies.** Analysis of tacit values, ideas, and knowledge that are produced and circulated in a given culture; past research on cultural influences in medicine and the force of ideology in behavior, experience, and belief.

http://www.rhetoric.english.vt.edu/ http://filebox.vt.edu/users/bhausman/index.html

• **Dr. Ramakrishnan: Data Mining.** Data mining, especially text mining for collocations, idioms, and linguistic cues in biomedical, news, and conversational text. Past applications have included detecting spoilers in reviews and identifying stories for intelligence analysis.

http://www.ictas.vt.edu/pdf/datamining.pdf http://people.cs.vt.edu/~ramakris/

• **Dr. North: Human Computer Interaction and Information Visualization:** Interactive visualization with large high-resolution displays, usability of information visualization, combining visualization and data mining, information-rich virtual environments.

http://www.hci.vt.edu/profile.php?id=north@vt.edu



Research Interests

- Dr. Ewing: History. Research on the political and personal dimensions of applied information technology in historical and contemporary contexts, particularly the inclusion of the United States and the Middle East in global networks, from the late nineteenth century through the present.
 www.history.vt.edu/ewing
- **Dr. Dannenberg: Sociolinguistics.** Examining the correlations between language and identity (both individual and communal), collecting, extracting and analyzing data and offering qualitative and quantitative explanations for language patterns and change. Research focuses on social, ethnic, regional, and gender identities.

http://www.rhetoric.english.vt.edu/

- **Dr. McDonel Herr:** Facilitating research opportunities in social sciences; program management for large multidisciplinary studies; public and mental health.
 - http://www.isce.vt.edu/ http://www.research.vt.edu/announcement/herr_isce.html http://myprofile.cos.com/bmcdherr http://www.linkedin.com/in/betsymcdonelherr
- Mr. Greene: Facilitating research opportunities in national security. http://www.ictas.vt.edu/security.shtml



Virginia Tech's Unique Capabilities:

Virginia Tech offers particular strength in the analysis of the intersection of language with issues of global security, health, energy, technology and science. In particular, three research centers provide complementary capabilities for examining the use of metaphors within cultures:

- Center for the Study of Rhetoric in Society
- Discovery Analytics Center
- Center for Human Computer Interaction

We have the ability to provide an automated analytical framework within which cultural and native language experts can efficiently produce and compare structured representations of the shared perspectives of multiple cultures and languages.

Seeking Capabilities in:

Native cultures of interest Languages of interest



Contact Information

- Jon Greene
- National Security Research Thrust Leader
- Virginia Tech Institute for Critical Technology and Applied Science (ICTAS)
- greenej@vt.edu
- (540)231-8566 (o)
- (540)553-5846 (m)
- http://www.ictas.vt.edu/security.shtml