

Brief Bio and (PR)²: Problems & Pitches – Rants & Raves by *Angela Zoss*



I am a doctoral student in the School of Library and Information Science at Indiana University. My background is in Cognitive Science, Communication, and Human-Computer Interaction. My research interests include large-scale cyberinfrastructures, visualization, and computer simulations.

I am interested in the effective design of information systems to convey analyses of and trends within large, complex datasets – especially those involving streaming data and the evolving products of and inputs to scientific disciplines. My research is informed by prior and ongoing research in Information Science, Information Visualization, Human-Computer Interaction, and Complex Systems.

Publications:

Börner, K., Ma, N., Duhon, R. J., & Zoss, A. M. (2009, July/August). Science & Technology Assessment Using Open Data and Open Code. *IEEE IS Trends & Controversies, AI and Global Science & Technology (S&T) Assessment*.

Börner, K., Huang, B. (W.), Linnemeier, M., Duhon, R. J., Phillips, P., Ma, N., Zoss, A., Guo, H., Price, M. A. Rete-Netzwerk-Red: Analyzing and Visualizing Scholarly Networks Using the Network Workbench Tool. In Proceedings of the 12th International Conference on Scientometrics and Informetrics (ISSI), Rio de Janeiro, Brazil, July 14 – 17, 2009, accepted.

Zoss, A., Börner, K., et al. (2008). Mapping Transdisciplinary Tobacco Use Research Centers (TTURC) Publications onto the Landscape of the Tobacco Research Field. Results presented at the Annual Conference of the American Evaluation Association, Denver, November 2008.

Relevant Projects:

Mapping TTURC Publications
Comparing Geographic and Disciplinary Visualizations of Job Data

<http://ella.slis.indiana.edu/~amzoss>

An Image I Relate to...



General Questions

1) What is (are) your main interest(s) in attending the workshop?

I am interested in the tools and data currently being used to map scientific domains.

2) What would you like to learn / achieve at the workshop?

I hope to improve my understanding of current practices in the mapping of knowledge domains and how this mapping and the domains themselves are affected by historical and cultural progressions.

3) ***If you are a philosopher of an historian of science:*** In what ways might people that study and map science benefit from your work?

If you are a scientometrician/science map maker: In what ways might philosophers or historians of science benefit from your work?

Computational analyses of data on scientific domains can help historians and philosophers of science conduct research on a wider variety of domains over a larger period of time. My research on the usability of different types of visualization of knowledge domains will improve tools for creating domain visualizations and will improve the dissemination of the research of historians and philosophers of science.