

Places & Spaces on Display in Chicago; Phase II Opens with Call for Macroscope Tools



All 100 maps and bonus materials are on display through September 30th at Northwestern University's Galter Health Sciences Library, part of the Feinberg School of Medicine. Katy Börner gave the opening keynote on Thursday, May 14.

By the time the Northwestern exhibition comes to a close, the full *Places & Spaces* physical exhibit will have been on display for a full year straight, and plans are in the works to keep it moving around the world.

Phase II: Macroscope Tools

While Phase I of *Places & Spaces* introduced the power and utility of science mapping to many, it has also raised new questions: How can we demonstrate the power of data analysis and visualization techniques not only to plot static data but to monitor and support science as it evolves over time? How can we improve data visualization literacy globally and for all ages? How can we empower individuals to make their very own maps? Phase II aims to address these questions by shifting the focus of the exhibit from maps to "macroscope tools."

The term "macroscope" was first coined in 1979 by Joël de Rosnay. He proposed the macroscope as a tool "not used to make things larger or smaller but to observe what is at once too great, too slow, and too complex for our eyes." Phase II will showcase interactive visualizations that anyone can use to explore data to gain insights. The Call for Macroscope Tools went out in May and finalists will be announced soon. The first iteration of macroscopes will debut later this year.

[Learn more »](#)



Reps from CNS, the Science Museum of Minnesota, and Plot.ly Team Up for Panel Discussion

The ASTC Conference will be held from October 17-20 at the Montreal Science Centre in Montreal, PQ, Canada. Members of CNS will be joined by representatives from Plot.ly for a panel discussion on *Plug-and-Play Macroscopes: Modular Hardware and Software Platforms That Render Data into Insights*. The panel will take place Saturday, October 17, from 4:30-5:45pm.

The panel discussion brings together researchers and practitioners from university and science museum settings who conduct research and development on modular hardware and software platforms. Specifically, it will feature talks and discussions on the use of plug-and-play platforms for the analysis and visualization of sensor, social media, and other datasets.

Session Leader:

Katy Börner, Director, CI for Network Science Center Indiana University, Bloomington

Presenters:

Daniel Halsey, Indiana University, Bloomington; Bryan Kennedy, Science Museum of Minnesota, St. Paul; Michael McLennan, Purdue University, West Lafayette, IN

[Learn more »](#)



Information Visualization MOOC Students Present Their Work

In May, students enrolled in the 2015 Information Visualization MOOC through Indiana University were given the opportunity to present final visualizations for their client projects at the Cyberinfrastructure Building on the Indiana University-Bloomington campus. Students presented on topics like visualizing shopping behavior, epidemiological publication data, comic book fandom, and the audit history of museum collections databases.

Students enrolled in the IVMOOC were given a chance to work on client projects using real-world data for seven weeks. The goal of the projects was to work with clients to produce insightful visualizations that solve a research question posed at the outset of the course. This year over 90 students and 20 researchers and organizations participated as clients in the IVMOOC.

The top projects from the course [can be seen here](#).

[See photos from the presentations »](#)

Publications

Submitted/In Press

- Ginda, Michael, Andrea Scharnhorst, and Katy Börner. "Modelling the Structure and Dynamics of Science Using Books." In *Theories of Informetrics: A Festschrift in Honor of Blaise Cronin*. Edited by Cassidy Sugimoto. Munich: De Gruyter Saur.

2015

- Goldstone, Robert, Franco Pestilli, and Katy Börner. 2015. "Self-portraits of the Brain: Cognitive Science, Data Visualization, and Communicative Brain Structure and Function." *Trends in Cognitive Sciences* doi:10.1016.
- Jibu, Mari, Yoshiyuki Osabe, and Katy Börner. 2015. "Knowledge Flows and Delays in the Pharmaceutical Innovation System." In *Proceedings of the 15th International Conference on Scientometrics and Informetric*. Leuven, Belgium: ISSI. 877-78.
- Patel, Kishor, Sergio Govoni, Ashwini Athavale, Robert Light, and Katy Börner. 2015. "ProQuest Dissertation Analysis." In *Proceedings of the 15th International Conference on Scientometrics and Informetric*. Leuven, Belgium: ISSI. 292-293.
- Börner, Katy, Joe E. Heimlich, Russell Balliet, and Adam V. Maltese. 2015. "Investigating Aspects of Data Visualization Literacy Using 20 Information Visualizations and 273 Science Museum Visitors." *Information Visualization*. 1-16.
- Saket, Bahador, Carlos Scheidegger, Stephen Kobourov, and Katy Börner. 2015. "Map-based Visualizations Increase Recall Accuracy of Data." *EUROGRAPHICS 2015* 34 (3): 441-450.
- Börner, Katy, Russell Balliet, Adam V. Maltese, Stephen Miles Uzzo, and Joe E. Heimlich. 2015. "Meaning Making Through Data Representation Construction and Deconstruction." AERA 2015 Annual Meeting.
- Larivière, Vincent, Stefanie Haustein, and Katy Börner. 2015. "Long-Distance Interdisciplinarity Leads to Higher Scientific Impact." *PLOS ONE* 10 (3): e0122565.
- Börner, Katy. 2015. *Atlas of Knowledge: Anyone Can Map*. Cambridge, MA: The MIT Press.

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Events Calendar

6/29

Workshop on "Forecasting Science: Models of Science and Technology Dynamics for Innovation Policy" at the 15th International Conference of the International Society for Scientometrics and Informetrics.

7/10-7/15

Fourteenth Annual Summer Interdisciplinary Conference (ASIC) (See story below)

7/16-7/18

Lisel Record presented on "Complex Studies of a Complex Subject: Data Visualization and Visitors" at the Visitor Studies Association Conference.

7/30

Commerce Data Advisory Council (CDAC) Meeting

8/31

Katy Börner gives keynote at NSF CyberBridges Workshop

9/1

Professor Börner delivers a lecture entitled "Data Visualizations: Drawing Actionable Insights from Science and Technology Data" at the Stevens Institute of Technology in Hoboken, NJ.

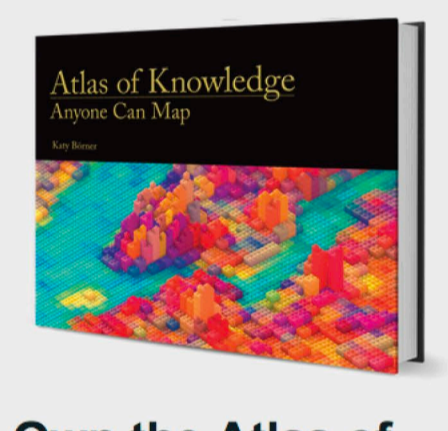
10/14-10/16

Invited talk by Katy Börner at The European Food Safety Authority's second Scientific Conference: "Shaping the Future of Food Safety, Together" as part of the World EXPO "Feeding the Planet, Energy for Life," Milan, Italy.

Recent Awards and Grants

In July, Katy Börner and Staša Milojević received a grant from the National Science Foundation to fund the *Science of Science Policy Conference on Modelling Science, Technology, and Innovation*. The conference will take place in May of 2016 and bring together leading experts from around the world.

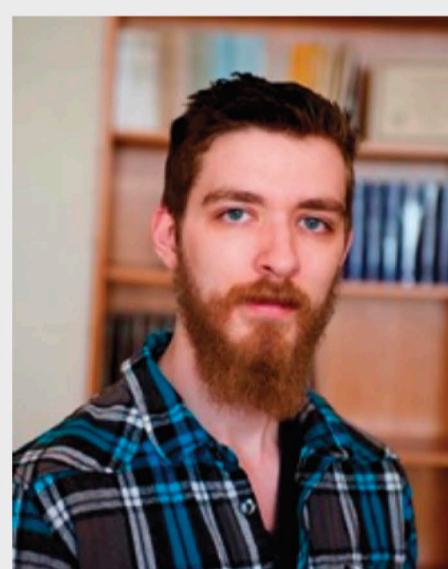
In other good news, the *Places & Spaces* project "Maps and Macroscopes," has received support from *Indiana University's Consortium for the Study of Religion, Ethics and Society*, a consortium sponsored by the Vice President for Research Office. The purpose of this project would be to bring to the IU campus makers of science maps and visualization tools to educate the community about their importance for understanding the world around us.



Own the Atlas of Knowledge

This second book in Katy Börner's three-part Atlas series explains and exemplifies the power of visualizations not only to help locate us in physical space but also to help us understand the extent and structure of our collective knowledge, to identify bursts of activity, pathways of ideas, and borders that beg to be crossed.

[Buy the Book »](#)



Staff Feature: Developer Adam Simpson

Adam joined the CNS team in July of 2012 as a Web Development Intern while working to finish his B.S. in Informatics. Less than a year later, he was hired on full-time as a Software Developer.

Adam says about his time at CNS, "It has helped me build technical skills and forced me to think critically about theories and concepts." Over the last two years, he has become an integral part of CNS's development team, breathing life into projects with his expertise in JavaScript and his willingness to go the extra mile to make applications optimally functional.

In his free time, Adam enjoys expanding his programming skills by building websites or applications. He's also a big music fan and plays bass guitar. In addition, he has recently started working on video game development.



Watch our new video to learn how we're serving today's and tomorrow's explorers

This short film elucidates our multi-faceted mission and gives potential customers and collaborators a clear idea of what we're all about.

The film was directed by graduate Information Science student Andreas Bueckle, who joins CNS as a PhD student in Fall 2015 and will be working with CNS on a variety of projects.

[Watch the video »](#)