



September 2022 Colloquium

Datatopia: The Future of Scientific Discovery Through a Data Lens

Data science is advancing scientific discovery in multiple ways, from protein folding to galaxy formation. Furthermore, it evidences the social mechanisms within scientific institutions more apt for innovation. To what extent, then, can data science elicit a radical restructuring of scientific practice? Can we harness its full potential? In this colloquium we will explore the promises data science has for scientific inquiry while also taking a critical view on the processes of science-making and data extraction, analysis and implementation. Join us to engage with the data science of science and the science of data science through workshops and an afternoon of talks by guest speakers.

Colloquium Public Lectures: Sept 29, 12:30 PM – 5:15 PM

Wolverine Room, Michigan Union

Faculty Conversation Laboratory: Sept 30, 9:00 AM – 2:00 PM

Clark Maps Library, 2nd Floor, Hatcher Graduate Library Building

Places & Spaces Information Graphics Exhibit:
Aug. 29 – Nov. 23

Clark Library Exhibit Space, Hatcher Library South.
Science Maps and Macroscopes, a public talk by exhibit curator Dr. Katy Börner: Sept 30, 2022, 3:00PM-4:00PM.

Co-sponsored by: Center for Ethics, Society, and Computing

About the Speakers

Katy Börner

Katy Börner, professor of information science at Indiana University in Bloomington, uses visualization techniques to study the structure of scientific ontologies and the systems through which scientific collaboration is carried out. Professor Börner is the curator of *Places and Spaces: Mapping Science*, a comprehensive exhibit mapping ideas, organizations, and infrastructures in science and technology.

The University of Michigan installment of the *Places and Spaces* exhibit can be viewed in the Clark Maps Library on the second floor of Hatcher Graduate Library until November 23rd! To commemorate the launch of this new iteration of the exhibit, Dr. Börner will present a public lecture titled *Science Maps and Macroscopes* 3:00PM-4:00PM on September 30th in the Clark Presentation Space in Hatcher Graduate Library.

Nick Couldry & Ulises Mejias

Nick Couldry (Professor of Media, Communications, and Social Theory at the London School of Economics), and Ulises Mejias (Professor of Communication Studies at SUNY Oswego) are the authors of *The Costs of Connection: How Data is Colonizing Human Life and Appropriating it for Colonization*.

In their work they study the harms in data extraction and datafication, and through the *Tierra Común* network engage with communities, academics, and activists to reclaim data for a socially aware and ethical purpose. *Tierra Común* brings together activists, citizens and scholars who want data to be decolonized and rejects data colonialism as the latest manifestation in modernity of the Global North's desire for domination.

Jacob Foster



technological objects. He is the Co-Director of the Diverse Intelligences Summer institute, a program for academic exploration on all forms of social, biological, and artificial intelligence.

Ágnes Horvát

Ágnes Horvát is an Assistant Professor at Northwestern in the Department of Communication Studies, (by courtesy) the Computer Science Department of the McCormick School of Engineering, and (also by courtesy) the Department of Management and Organizations of the Kellogg School of Management. Her research seeks to measure, understand, and forecast the collective behaviour of networked crowds in large-scale socio-technical systems.

Schedule

DAY 1: Colloquium Public Lectures

Wolverine Room, Michigan Union. No registration required.

Speaker	Start	End
Welcome and Intro	12:30PM	12:45PM
Katy Börner	12:45PM	1:35PM
Jacob Foster	1:40PM	2:30PM
Break	2:30PM	2:45PM
Ágnes Horvát	2:45PM	3:35PM
Ulises Mejias & Nick Couldry	3:40PM	4:40PM
Panel Discussion	4:45PM	5:15PM

DAY 2: Faculty Conversation Laboratory



depth discussion and participation attended by the guest speakers and geared towards faculty, postdocs and researchers. In this session we will discuss as a scientific community challenging questions surrounding the colloquium theme. Participants will work through a specific idea in interest based teams, formulate a plan of action, and present it for discussion and consideration to the general group. The goal of the conversatory is to be a stimulating environment to generate novel and risky ideas, as well as to establish new collaborations and research avenues.

Conversatory Agenda (9:00AM-2:00PM)

Projected Duration

Introductions, preliminary discussions, identification of paradigms, team formation

1 hour

Theme-specific team discussions, presentations with all attendees

1.5 hours

Theme/team changes, second round of theme-specific team discussions/presentations

1.5 hours

Lunch (provided), casual conversation, networking

1 hour

Colloquium Organizers

- **efrén cruz cortés**, Michigan Data Science Fellow & Lecturer in Complex Systems
- **Elyse Thulin**, Michigan Data Science Fellow & Postdoctoral Fellow, Department of Psychiatry
- **Bernardo Modenesi**, Rocket Companies Michigan Data Science Fellow
- **Shane Redman**, Senior Scientist, MIDAS

Contact Us

Questions? Message the MIDAS team: midas-contact@umich.edu

