COMPUTATIONAL SOCIAL

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Agenda
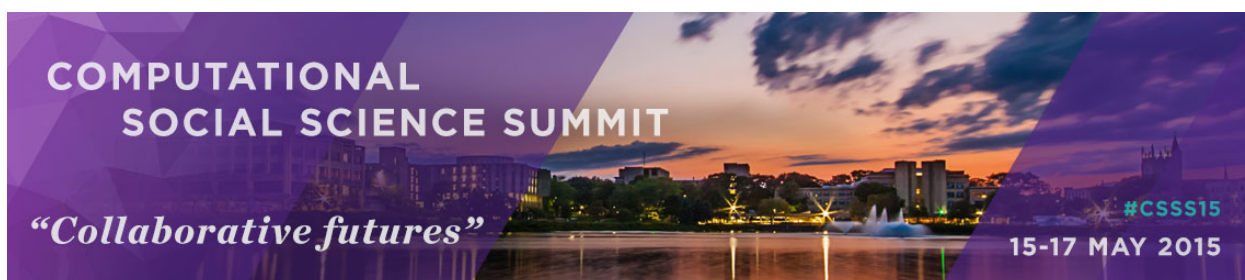
Pre-Session

FRIDAY May 15, 2015 - Training Workshops & Datathon

8:00 a.m. – 10:00 a.m.
Check-in (Datathon and Workshop participants)
10:00 a.m. – 4:00 p.m.
Check-in (General Session participants)

10:00 a.m. – 1:30 p.m.
Choose one:

   Training Workshop 1a: Jackie Milhans - Lead Computational Specialist, Northwestern University
       Computational Research Fundamentals

   Training Workshop 1b: Stuart Shulman - Texifter, LLC
       Text Analytics for Social Data Using DiscoverText & Sifter

Datathon Working Session: Laura Norén - Center for Data Science, New York University

1:30 p.m. – 2:30 p.m.
Lunch

2:30 p.m. – 5:00 p.m.
Choose one:

    Training Workshop 2a: Lorien Jasny - National Socio-Environmental Synthesis Center, University of Maryland
        Social Network Analysis Using R

    Training Workshop 2b: Brian Lange - Data Scientist, Datascope Analytics
        Natural Language Processing and Text Analysis in Python

Datathon Working Session: Laura Norén - Center for Data Science, New York University

6:00 p.m. – 7:00 p.m.
Break & Pizza (Workshop and Datathon participants)

7:00 p.m. – 10:00 p.m.
Datathon Working Session: Laura Norén - Center for Data Science, New York University

General Session

SATURDAY May 16, 2015 - Concurrent Sessions 1-3, Keynote Speakers and Datathon Judging

7:00 a.m. – 4:00 p.m.
Check-in

7:00 a.m. – 6:00 p.m.
Exhibits: Poster Session, Art and Booths
(Poster Session Q & A scheduled for 10:45 a.m. - 11:15 a.m.)

7:30 a.m. – 8:00 a.m.
Breakfast

8:00 a.m. – 8:15 a.m.
Opening remarks
Laura Nelson, Kellogg School of Management, Northwestern University
Laura Norén, Center for Data Science, New York University

8:15 a.m. – 9:00 a.m.
Keynote: Katy Börner, Indiana University
"Envisioning Scholarly Communication and Collaboration"

9:15 a.m. – 10:45 a.m.
Concurrent Sessions 1
a) New Tools for Collecting Data

- Michelle Birkett - Feinberg School of Medicine, Northwestern University
  NetCanvas: An Engaging Tool for Capturing Complex Network Data for Use in Clinical Research
  (with Joshua Melville, Bernie Hogan - University of Oxford, Gregory Phillips II, Patrick Janulis, Brian
  Mustanski, Noshir Contractor - Northwestern University)
- Jason Radford - Sociology, University of Chicago
  Conducting Massively Open Online Social Experiments with Volunteer Science
  (with David Lazer, Waleed Meleis, Brook Foucault Wells - Northeastern University, Brian Keegan - Harvard
  University, Jefferson Hoye - Independent)
- Darren Stevenson - Communication Studies, University of Michigan
  Using Online Advertising Networks to Study Human Behavior
  (with Joseph Bayer, University of Michigan)
- Griffin Weber - Center for Biomedical Informatics at Countway, Harvard Medical School
  Analyzing Collaboration Across a University Using Profiles Research Networking Software

b) Politics and Social Movements

- Lucas da Silva Almeida - Complex Systems Modelling, University of São Paulo
  E-Fixing Government: Using Data to Solve Machiavellian Problems
- Jiawei Sophia Fu - Communications, Northwestern University
  A Longitudinal Examination of Environmental NGOs' Networks on Twitter
- Eunkyung Song - Sociology, Rutgers University
  The Fifteen Days: The Meaning of Mad Cow Disease in the 2008 Candlelight Protests, Korea
- Amanda Stevenson - Sociology & Population Research Center, University of Texas-Austin
  Emotions and Social Movement Ties Among Texas Abortion Activists

c) Jobs, Markets, and Organizations

- John Atwell - Sociology and Complex Systems, University of Michigan
  Markets as Sites of Constructive Processes
- Anamaria Berea - Krasnow Institute, George Mason University
  Social Media Drivers & Crowdfunding Success
  (with Brent Goldfarb, David Kirsch, William Rand - University of Maryland)
- Ágnes Horvát - Northwestern Institute on Complex Systems (NICO), Northwestern University
  Market vs Network Relations: The Role of Friends in the Early Stages of Bidding in Crowdfunding
  (with Jay Uparna, Brian Uzzi - Northwestern University)
- Jerry Kim - Columbia Business School, Columbia University
  Incentives and Inequality: Evidence from Gamification in a Restaurant Chain
  (with Bruce Kogut - Columbia University, Ian Larkin - University of California-Los Angeles)
- Ming Leung - Haas School of Business, University of California-Berkeley
  For Love or Money? Gender Differences in How One Approaches Getting a Job
  (with Weiyi Ng - University of California-Berkeley)

d) Measuring Network Dynamics I

- Joshua Becker - Annenberg School for Communication, University of Pennsylvania

Collective Decisions as Coordination Processes: The Influence of Hubs

- Forrest W. Crawford - Biostatistics, Yale School of Public Health
  Reconstructing Hidden Social Networks from Partial Link-Tracing Data
- Bryan Daniels - Center for Complexity and Collective Computation, University of Wisconsin-Madison
  Critical Behavior in a Small-Scale, Heterogeneous, Collective, Social System
  (with David Krakauer - University of Wisconsin-Madison, Jessica Flack - Santa Fe Institute)
- Jake C. Fisher - Sociology, Duke University
  Social Space Diffusion
- Lorien Jasny - National Socio-Environmental Synthesis Center, University of Maryland
  Two-Mode Brokerage in Policy Networks (with Mark Lubell - University of California-Davis)

10:45 a.m. – 11:15 a.m.
Coffee Break/Snacks

11:15 a.m. – 12:45 p.m.
Concurrent Sessions 2
a) Thematic Panel: Network Science, Machine Learning, and Interactive Data Visualization: Tools to Study Cultural Production

- Noah Askin - INSEAD, Michael Mauskapf - Kellogg School of Management, Northwestern University
  Cultural Networks as a Means to Map the Emergence and Evolution of Genres
  (with Brian Uzzi - Northwestern University)
- Fernando Cucchietti - Scientific Visualization Team, Barcelona Supercomputing Center
  Visualizing Popularity and Influence in Popular Music
- Ágnes Horvát - Northwestern Institute on Complex Systems (NICO), Northwestern University
  A Cookbook of Cinematic Delicacies that Do Not Expire
  (with Andreas Spitz - Heidelberg University)
- Bryan Pardo - McCormick School of Engineering, Northwestern University
  Crowdsourcing Audio Production Interfaces

b) Computational Text Analytic Approaches to Political Sociology

- Jessica Burow - Statistics, University of Nebraska-Lincoln
  Police Prejudice Spread on Twitter: The Ferguson Verdict
  (with Soundararajan Rajendran - University of Nebraska-Lincoln)
- Joseph DiGrazia - Neukom Institute & Sociology, Dartmouth College
  The Social Determinants of Conspiratorial Ideation
- Alex Hanna - Sociology, University of Wisconsin-Madison
  Developing a System for the Automated Coding of Protest Event Data
- Laura Nelson - Kellogg School of Management, Northwestern University
  On Targets and Tactics: The Transformation of the US Environmental Movement Between 1998 and 2014
  (with Brayden King - Northwestern University)
- Charles Sequin & Brandon Gorman - Sociology, University of North Carolina-Chapel Hill
  Reporting the International System: Foreign Leaders in the US News Media

c) Collaborations, Networks, and Success I

- Sabine Brunswicker - Research Center for Open Digital Innovation, Purdue University
  Decomposing the 'Architecture' of Innovative Mobility Solutions developed by a Civic Innovation Crowd: A Network Perspective
  (with Chien-Yi Hsiang - Purdue University)

- Jingbo Meng - Communication, Michigan State University
  Your Health Buddies Matter: Preferential Selection and Social Influence on Weight Management in an Online Health Network
- João Moreira - McCormick School of Engineering, Northwestern University
  Using the Discrete Lognormal Distribution to Quantify the Scientific Impact of Individual Researchers
  (with Xiao Han T. Zeng, Luís A. Nunes Amaral - Northwestern University)
- Satyam Mukherjee - Northwestern Institute on Complex Systems (NICO), Northwestern University
  The Lens of Time: Linking Prior Knowledge and Future Impact in Science, Patenting and Law
  (with Daniel Romero - University of Michigan, Benjamin Jones, Brian Uzzi-Northwestern University)
- Li Yu - McCormick School of Engineering, Northwestern University
  Collaborative Evaluation for Improving Group Decision Robust
  (with Haiyan Zhang, Zezhong Zhang - Renmin University of China, Beijing)

d) Re-imagining Methods

- Mark Fossett - Sociology, Texas A&M University
  Assessing Residential Segregation in Computational Models: Solutions to Problems of Measuring Segregation at Small Spatial Scales
- Sorin Adam Matei - Brian Lamb School of Communication, Purdue University
  Stepwise Segmented Regression Analysis: An Iterative Statistical Algorithm to Detect and Quantify Evolutionary and Revolutionary Transformations in Longitudinal Data
  (with Brian Britt - South Dakota State University)
- Adam R. Pah - McCormick School of Engineering, Northwestern University
  Longitudinal Analysis of Shooting Incidents at Schools in the USA
  (with Andrew Jennings, Luís A. Nunes Amaral - Northwestern University)
- Misha Teplitskiy - Sociology, University of Chicago
  How Film is Sociological Knowledge: Reanalysis of GSS Findings with Alternative Models and Out-of-Sample Data, 1972-2012
  (with James Evans - University of Chicago)
- Lawrence L. Wu - Sociology, New York University
  Enhancing Plausibility and Interpretability of Cause-Specific Models of Mortality
  (with Steven P. Martin - Urban Institute)

12:45 p.m. – 1:45 p.m.
Lunch

1:45 p.m. – 2:30 p.m.
Keynote: Sandra González-Bailón, University of Pennsylvania
"Network Science and the Study of Political Protests"

2:45 p.m. – 4:15 p.m.
Concurrent Sessions 3
a) Thematic Panel: Understanding and Overcoming Empirical Constraints in Computational Analysis of Online Trace Data

- Shane Greenstein - Kellogg School of Management, Northwestern University
- Eszter Hargittai - School of Communication, Northwestern University

- Aaron Shaw - School of Communication, Northwestern University

b) Power and Politics Online

- Tyler A. Crabb & Erin Smith Crabb - Sociology, University of Maryland, College Park
  Strings Attached: The Sociology of Non-Human, Digital Personas
- Anne Groggel - Sociology, Indiana University
  A Gendered Public Sphere: Who's Heard the Most in Twitter
  (with Peter Lista, Shirin Nilizadeh, Pranay Sogani, Yong-Yeol Ahn, Apu Kapadia, Fabio Rojas - Indiana University)
- Sorin Adam Matei - Brian Lamb School of Communication, Purdue University
  Leadership Resilience and Structural Differentiation in Social Media Spaces: A Socio-computational Analysis
  (with Wutao Wei, Chuanhai Liu, Michael Zhu, Elisa Bertino - Purdue University, Brian Britt - South Dakota State University)
- Harsh Taneja - Journalism, University of Missouri
  User-centric Ethnological Mapping on the WWW: A Network Analytic Approach
  (with Angela Xiao Wu - Chinese University of Hong Kong)
- Ion Bogdan Vasi - Sociology and College of Business, University of Iowa
  'No Fracking Way!' Media Activism, Discursive Opportunities and Local Opposition against Hydraulic Fracturing in the United States, 2010-2013
  (with Edward Walker - University of California-Davis, John Johnson - Harmony Institute, Sarah Tan - Cornell)

c) Language, Culture, and Community

- Kenneth Joseph - Computer Science, Carnegie Mellon University
  Culture, Networks, Twitter and Foursquare: Testing a Model of Cultural Conversion with Social Media Data
  (with Kathleen M. Carley - Carnegie Mellon University)
- Azadeh Nematzadeh - Informatics and Computing, Indiana University
  Where to Eat or What to Eat? Examining Urban Food Exploration through Yelp Reviews
  (with Soheil Jazayeri, Maitaporn Phanich, Peter Todd, Yong-Yeol Ahn - Indiana University)
- Sheela Pandey - Center for Organization Research and Design (CORD), Arizona State University
  Application of Natural Language Processing Capabilities in Computerized Textual Analysis: An Illustration Using the Organizational Culture Construct
  (with Sanjay K. Pandey - George Washington University)
- Aleksandr Sinayev - Psychology, Ohio State University
  Assessing News Objectivity Using Movie Synopses and Reviews
- Sameer Srivastava - Haas School of Business, University of California-Berkeley
  Fitting In or Standing Out? The Tradeoffs of Structural and Cultural Embeddedness
  (with Amir Goldberg, V. Govind Manian, William Monroe, Christopher Potts - Stanford University)

d) Social Media and Public Policy

- Aron Culotta - Computer Science, Illinois Institute of Technology
  Identifying and Controlling for Demographic Confounders in Social Media Analysis
- Libby Hemphill - Communication and Information Studies, Illinois Institute of Technology
  The Measuring Partisanship Using Social Media Content
- Matthew Shapiro - Political Science, Illinois Institute of Technology
  Government Interference and Citizen-based Environmental NGOs in China

4:30 p.m. – 5:30 p.m.
Datathon Judging & Award Presentation

5:30 p.m. – 6:00 p.m.
Break

6:00 p.m. – 7:00 p.m.
Keynote: David Ferrucci, Bridgewater Associates
"Artificial Intelligence: A Return To Meaning"
Please note that no livestream will be available for this keynote.

7:00 p.m. – 9:00 p.m.
Reception

SUNDAY May 17, 2015 - Concurrent Sessions 4, Closing Keynote

8:30 a.m. – 1:45 p.m.
Poster Session & Exhibits

8:30 a.m. – 9:00 a.m.
Breakfast

9:00 a.m. – 10:00 a.m.
Keynote: Michael Macy, Cornell University
"Big Data and the End of Theory"

10:15 a.m. – 11:45 p.m.

Concurrent Sessions 4

a) Making Sense of Big Data

- James Allen Evans - Sociology, University of Chicago
  Can We Agree on Science? Evidence from Amazon.com Co-Purchase Data
  (with Bill Shi - University of Chicago, Fedor Dokshin, Yongren Shi, Michael Macy - Cornell University)
- Brian Keegan - The Institute for Quantitative Social Science, Harvard University
  First Among Equals: The Emergence and Evolution of Wikipedia's Networked Policy Regime
- Stasa Milojevic - Informatics and Computing, Indiana University
  Quantifying the Knowledge Domain of Science
- Balazs Vedres, Sociology and Social Anthropology, Central European University
  Creative Tensions and Success in the Network of Video Game Developers
  (with Mathijs DeVaan, David Stark - Columbia University)

b) Using Computational Methods to Improve Health Care

- Subrina Farah - Family Medicine Research Programs, University of Rochester
  Quantitative Assessment of Patient Satisfaction Survey: A Multivariate Approach
- Aditya S. Khanna - Department of Medicine, University of Chicago
  Identifying Peer Change Agents on a Large Social Network
- Ricky Leung - University of SUNY-Albany
  Building Mobile Apps for Underrepresented Mental Health Patients
  (with Julia Hastings, Keith Chan - SUNY-Albany, Robert Keefe - SUNY-Buffalo, Carol Brownstein-Evans - Nazareth College, Rosemary Mullick - SUNY-Polytechnic Institute)
- H. Andrew Schwartz - Computer & Information Science, University of Pennsylvania
  Predicting America's Top Killers: Exploring Country-level Mortality Rates in the Language of Twitter
  (with Johannes C. Eichstaedt, Maarten Sap, Gregory Park, Raina Merchant, Lyle H. Ungar - University of Pennsylvania)
- Rebecca Jen-Hui Wang - Kellogg School of Management, Northwestern University
  Emergency Department Revisits and Patient Welfare: A Recommendation to Healthcare Providers on Analyzing Visit Data
  (with Vikram Kilambi, Sanjay Mehrotra - Northwestern University, Peter Pang - Indiana University)

c) Collaborations, Networks, and Success II

- Samantha Cohen - Psychological and Brain Sciences, Indiana University
  Speed-Networking: An Academic Equalizer for Underrepresented Individuals
  (with Peter M. Todd - Indiana University)
- Carla Fernandez-Corrales - College of Business, University of Illinois-Urbana
  A Tree Induction Analysis of Exclusivity in Technology Licensing
  (with Deepak Somaya, Ramanath Subramanyam - University of Illinois-Urbana, Prasanna Karhade - Hong Kong University of Science & Technology)
- Alina Lungeanu - Science of Networks in Communities (SONIC) Research Group, Northwestern University
  Team Assembly in New Scientific Fields: A Computational Modelling Approach
  (with Sophia Sullivan - Think Big, Noshir Contractor - Northwestern University)
- Michael J. Prietula - Goizueta Business School, Emory University
  The Hazards of Interaction: When Isolation and Inertia Benefit Performance
  (with Sheen Levine - University of Texas-Dallas)
- Xiaolin Zhuo & Robert Manduca - Sociology, Harvard University
  Multi-Dimensional Diversity and Team Performance in a Cultural Market
  (with Kwan Woo Kim - Harvard University)

d) Measuring Network Dynamics II

- Brenda Berkelaar - Communication Studies, University of Texas-Austin
  How Network Structures Influence Career Metaphors and Agency
- Hilla Brot - Northwestern Institute on Complex Systems (NICO), Northwestern University

Evolution through Bursts: Network Structure Develops through Localized Bursts in Time and Space
- Devin Gaffney - Network Science, Northeastern University
  Exploring the Role of Geographic Diffusion in Viral Cascades
- Varsha S. Kulkarni - Informatics and Computing, Indiana University
  Temporal Evolution of Social Innovation
- Hyojun A. Lee - McCormick School of Engineering, Northwestern University
  Adoption of High-Cost Medical Innovations within Specialty Physician Groups
  (with Adam R. Pah, Luís A. Nunes Amaral - Northwestern University)

12:00 p.m. – 12:45 p.m.
Lunch

12:45 p.m. – 1:30 p.m.
Keynote: Moran Cerf, Northwestern University
"Predicting Behavior by Looking Inside the Brain"

1:30 p.m. – 1:45 p.m.
Closing remarks
Noshir Contractor, School of Communication and SONIC, Northwestern University
Brian Uzzi, Kellogg School of Management and NICO, Northwestern University

Kellogg School of Management
Northwestern University
2211 Campus Drive, Evanston, IL 60208
Directions
847.491.3300 | **Contact**

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