Information Transmission in Networks

Network Science in Economics Conference Series

Center for History and Economics
Harvard University

May 1-3, 2015
Thank you for joining us for this conference on Information Transmission in Networks, hosted by the Center for History and Economics at Harvard. The conference is the first in a series on Network Science in Economics, sponsored by the National Science Foundation, with additional support from the Center for History and Economics at Harvard and the Department of Economics at Vanderbilt University.

Benjamin Golub
Local Organizer

Matthew O. Jackson
Series Organizer

Myrna Wooders
Series Organizer
## Schedule: Friday, May 1st, 2015

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>2:30</td>
<td>Coffee (Hansen-Mason Lounge, Third Floor)</td>
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<tr>
<td>3:00</td>
<td>Welcome (Hansen-Mason Lounge, Third Floor)</td>
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<tr>
<td>3:15</td>
<td>Pricing Network Effects</td>
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<td></td>
<td><em>Andrea Galeotti, Itay P. Fainmesser</em></td>
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<td>4:00</td>
<td>Peer Effect in iPhone Adoption</td>
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<td><em>Tony Ke</em></td>
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<td>4:45</td>
<td>Coffee Break (Hansen-Mason Lounge, Third Floor)</td>
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<tr>
<td>5:00</td>
<td>A Network Theory of Civil Liberties and Social Structure</td>
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<td><em>Selman Erol, Camilo Garcia-Jimeno</em></td>
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<td>5:45</td>
<td>How Social Networks Shape Our Values?</td>
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<td><em>A Natural Experiment Among Future French Politicians</em></td>
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<td></td>
<td><em>Yann Algan, Quoc-Anh Do, Alexis Le Chapelain, Yves Zenou</em></td>
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<tr>
<td>6:30</td>
<td>Day’s official program ends; informal dinners (see restaurant list at end of program)</td>
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**Room M-16**

- Pricing Network Effects  
  *Andrea Galeotti, Itay P. Fainmesser*
- Peer Effect in iPhone Adoption  
  *Tony Ke*
- A Network Theory of Civil Liberties and Social Structure  
  *Selman Erol, Camilo Garcia-Jimeno*
- How Social Networks Shape Our Values?  
  *A Natural Experiment Among Future French Politicians*  
  *Yann Algan, Quoc-Anh Do, Alexis Le Chapelain, Yves Zenou*

**Room M-15**

- Informational Herding with Model Misspecification  
  *J. Aislinn Bohren*
- Strategic Learning and the Topology of Social Networks  
  *Elchanan Mossel, Allan Sly, Omer Tamuz*
- A Unifying Model of Strategic Network Formation  
  *Norma Olaizola, Frederico Valenciano*
- Trust and Manipulation in Social Networks  
  *Manuel Forster, Ana Mauleon, Vincent J. Vannetelbosch*

The welcome session, coffee, breakfasts, and Saturday lunch will take place in the **Hansen-Mason Lounge**, which is on the top floor of the building, directly in front of the stairs.

All sessions take place in Rooms M-15 and M-16. The M floor is one level above the building entry. When you are on that floor, make a left off the stairs or elevator to find the rooms.
Saturday, May 2nd, 2015 — Morning Session

8:45  Breakfast (Hansen-Mason Lounge, Third Floor)

Room M-16

9:15  Rumors and Social Networks
      Francis Bloch, Gabrielle Demange, Rachel Kranton

Room M-15

9:15  Collaborative Oligopoly in Price Competition
      Pascal Billard, Christophe Bravard, Sudipta Sarangi, Myrna Wooders

10:00 Rumours
       Kalyan Chatterjee, Bhaskar Dutta

10:00 Customer Referral Incentives and Social Media
       Ilan Lobel, Evan Sadler, Lav R. Varshney

10:45 Coffee Break (Hansen-Mason Lounge, Third Floor)

Room M-16

11:00 Changes in Advice and Favor Exchange Networks in Response to Exposure to Formal Credit in Rural Villages
       Abhijit Banerjee, Arun G. Chandrasekhar, Esther Duflo, Matthew O. Jackson

Room M-15

11:00 How Damage Diversification Can Reduce Systemic Risk
       Antonios Garas, Rebekka Burkholz, Frank Schweitzer

11:45 Savings Monitors
       Emily Breza, Arun G. Chandrasekhar

11:45 Homophily and Influence: The Strength of Weak Ties Revisited
       Arnold Polanski, Fernando Vega-Redondo

12:30 Lunch (served in Hansen-Mason Lounge, Third Floor; additional seating M-16, M-15)

1:30  Poster Session, Hansen-Mason Lounge

Divided We Stand, United We Fall
       Ugo Bolletta, Paolo Pin

Trust and Stability in a Financial Network
       Rick Bookstaber, Philip Monin

Extended Abstract: The Swing Voter’s Curse in Social Networks
       Berno Buechel, Lydia Mechntenberg

Network Formation and Information Acquisition
       Bernard Herskovic, João Ramos

Competition Over Product Diffusion in Social Networks
       Yongwhan Lim, Asuman Osdaglar, Alexander Teytelboym

Who Can You Trust? Reputation and Cooperation in Networks
       Maia King

The Strength of the Strongest Ties in Collaborative Problem Solving
       Yves-Alexandre de Montjoye, Arkadiusz Stopcynski, Erez Shmueli, Alex Pentland, Sune Legmann

How Good is the Shapley Value-based Approach to the Influence Maximization Problem?
       Szymon Matejczyk, Kamil Adamczewski, Michael Wooldridge, Tomasz P. Michalak

Incentive Compatibility Networks and the Delegated Networking Principle
       Frank Page, Rui Gong
# Saturday, May 2nd, 2015 — Afternoon Session

<table>
<thead>
<tr>
<th>Time</th>
<th>Room M-16</th>
<th>Room M-15</th>
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<tbody>
<tr>
<td>2:45</td>
<td>Do Friends Help Friends Get Jobs?</td>
<td>Communication and Compliance in Networks:</td>
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<td></td>
<td><em>Sarah Adelman, Vivian Hoffman, Markus M.</em></td>
<td><em>Evidence from a Field Experiment</em></td>
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<td></td>
<td><em>Mobius, Tanya S. Rosenblat</em></td>
<td><em>Francesco Drago, Friederike Mengel, Christian Traxler</em></td>
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<tr>
<td>3:30</td>
<td>Influence Maximization Revisited</td>
<td>Public Goods in Endogenous Networks</td>
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<td><em>Paramveer Dhillon, Sinan Aral</em></td>
<td><em>Markus Kinateder, Luca Paolo Merlino</em></td>
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<tr>
<td>4:15</td>
<td>Coffee Break (Hansen-Mason Lounge, Third Floor)</td>
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</tr>
<tr>
<td>4:30</td>
<td>A Model of Belief Influence in Large Social Networks</td>
<td>Network Games with Local Correlation and Clustering</td>
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<tr>
<td></td>
<td><em>Antonio Jimenez-Martinez</em></td>
<td><em>PJ Lamberson</em></td>
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<tr>
<td>5:15</td>
<td>A Simple Model of Cascades in Networks</td>
<td>Strategic Influence in Social Networks</td>
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<td></td>
<td><em>Yongwhan Lim, Asuman Ozdaglar, Alexander</em></td>
<td><em>Michel Grabisch, Antoine Mandel, Agnieszka Rusinowska, Emily Tanimura</em></td>
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<td><em>Teytelboym</em></td>
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Sunday, May 3rd, 2015

8:45  Breakfast (Hansen-Mason Lounge, Third Floor)

Room M-16

9:15  Treasure Hunt: Social Learning in the Field
      Markus Mobius, Tuan Phan, Adam Szeidl

Room M-15

9:15  Discrete Games in Endogenous Networks: Theory and Policy
      Anton Badev

10:00 Naïve Learning with Uninformed Agents
      Abhijit Banerjee, Emily Breza, Arun G. Chandresekhar, Markus Mobius

10:00  Interacting Information Cascades: On the Movement of Conventions Between Groups
       James C.D. Fisher, John Wooders

10:45  Coffee Break (Hansen-Mason Lounge, Third Floor)

Room M-16

11:00 An Experimental Study on Information Sharing in Networks
      Sergio Currarini, Francesco Feri, Miguel A. Meléndez-Jiménez

11:45 Interfirm Relationships and Business Performance
       Jing Cai, Adam Szeidl

11:45  A Networked Market for Information
       S. Nageeb Ali, Ayal Chen-Zion, Erik Lillethun

12:30 Conference Ends
### Some Local Restaurant Suggestions

<table>
<thead>
<tr>
<th>Restaurant</th>
<th>Cuisine</th>
<th>Price</th>
<th>Description</th>
<th>Address</th>
<th>Phone</th>
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<tbody>
<tr>
<td><strong>The Boathouse</strong></td>
<td>$ · Pub</td>
<td></td>
<td>Relaxed, nautical-themed location to hang out &amp; socialize over pub grub, provincial beers &amp; drinks.</td>
<td>49 Mt Auburn St, Cambridge</td>
<td>(617) 349-1650</td>
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<tr>
<td><strong>The Sinclair</strong></td>
<td>$ · American</td>
<td></td>
<td>This gastropub features New American fare, with an open kitchen &amp; patio. Music venue next door— if you see a long line, it's for the concert and not the restaurant.</td>
<td>52 Church St, Cambridge</td>
<td>(617) 547-5200</td>
</tr>
<tr>
<td><strong>Park Restaurant &amp; Bar</strong></td>
<td>$ $ · New American Restaurant</td>
<td></td>
<td>Unfussy American fare &amp; creative cocktails star at this eatery &amp; bar in a living room-like setting.</td>
<td>59 JFK St, Cambridge</td>
<td>(617) 491-9851</td>
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<tr>
<td><strong>Orinoco</strong></td>
<td>$ · Venezuelan</td>
<td></td>
<td>No-reservations Venezuelan eatery known for smoky arepas, served in a cozy, Latin-accented space.</td>
<td>56 John F. Kennedy St, Cambridge</td>
<td>(617) 354-6900</td>
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<tr>
<td><strong>Changsho</strong></td>
<td>$ $ · Chinese</td>
<td></td>
<td>Neighborhood mainstay for familiar Chinese dishes &amp; popular brunch in a traditional setting.</td>
<td>1712 Massachusetts Ave, Cambridge</td>
<td>(617) 547-6565</td>
</tr>
<tr>
<td><strong>Clover</strong></td>
<td>$ or less · Vegetarian Fast Food</td>
<td></td>
<td>The menu changes daily at this quick-serve spot featuring seasonal ingredients in a lablike space. Order at the counter.</td>
<td>7 Holyoke St, Cambridge</td>
<td>(617) 395-0240</td>
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<tr>
<td><strong>Le's Restaurant</strong></td>
<td>$$$ · Vietnamese</td>
<td></td>
<td>Bustling Vietnamese quick-serve sit-down restaurant offering pho noodle soups &amp; other classic dishes.</td>
<td>35 Dunster St, Cambridge</td>
<td>(617) 864-4100</td>
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<tr>
<td><strong>Dumpling House</strong></td>
<td>$½ · Chinese</td>
<td></td>
<td>Lively spot for a big selection of handmade dumplings &amp; other Chinese classics. Fast, somewhat brusque service.</td>
<td>950 Massachusetts Ave, Cambridge</td>
<td>(617) 661-8066</td>
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<tr>
<td><strong>Cambridge 1</strong></td>
<td>$ $ · Italian</td>
<td></td>
<td>Simple pizza parlor crafting thin-crust pies with unusual toppings, to be chased with local beers.</td>
<td>27 Church St, Cambridge</td>
<td>(617) 576-1111</td>
</tr>
<tr>
<td><strong>Beat Hotel</strong></td>
<td>$ $ · American Restaurant</td>
<td></td>
<td>A trippy space with psychedelic art is home to creative American eats, craft cocktails &amp; live music. They are very proud of their wine on tap. Quite crowded on Friday nights, but may have a table for dinner, especially outside peak dinner hours.</td>
<td>13 Brattle St, Cambridge</td>
<td>(617) 499-0001</td>
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<tr>
<td><strong>Henrietta's Table</strong></td>
<td>$½ · New England</td>
<td></td>
<td>The Charles Hotel's farmhouse-chic eatery specializes in locally sourced food, plus brunch. Good for large parties.</td>
<td>The Charles Hotel, 1 Bennett St, Cambridge</td>
<td>(617) 661-5005</td>
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</tbody>
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$ = entrees $7-17  $ = entrees $18-25  $$$ - entrees over $25

(these guidelines represent something like an interquartile range)