

Fourth Annual NSF Conference on Network Science in Economics

April 13-15, 2018

Kissam Center

Vanderbilt University

Friday, April 13, 2018

Experimental and Behavioral Approaches to Networks

- 9:00 - 9:50 am **Registration/Light Breakfast - Kissam Center C210**
- 9:50 - 10:00 am **Welcome and Announcements- Kissam Center C210**
- 10:00 - 11:10 am *Causal Physical Contact and Outgroup Bias: Experimental Evidence from Afghanistan*, Luke N. Condra and **Sera Linardi**
- Integration and Segregation*, Sanjeev Goyal, Penelope Hernandez, Guillem Martinez-Canovas, Frederic Moisan, **Manu Munoz**, and Angel Sanchez
- 11:10 - 11:40 am **Coffee Break & Open Discussion**
- 11:40 -12:50 pm *Liquidity Risk in Sequential Trading Networks*, Shachar Kariv, Maciej H. Kotowski, and C. **Matthew Leister**
- Endogenous Outside Option in Large Markets: An Experiment*, Marina Agranov, **Matthew Elliott**, and Eduard Talamas
- 12:50 - 2:20 pm **Lunch & Open Discussion**
- 2:20 - 3:30 pm *Stable Allocations in Social Networks with Local Comparison*, Chen Cheng and **Yiqing Xing**
- Coordination and Common Knowledge in Online Social Network Experiments*, Monica Capra, **Gizem Korkmaz**, Kiran Lakkaraju, Chris Kuhlman, Fernando Vega-Redondo
- 3:30 - 3:50 pm **Coffee Break & Open Discussion**
- 3:50 - 5:00 pm *The Strength of Weak Leaders – An Experiment on Social Influence and Social Learning in Teams*, **Berno Buechel**, Stefan Klobner, Martin Lochmuller, and Heiko Rauhut
- Dispersed Behavior and Perceptions in Assortative Societies*, **Mira Frick**, Ryota Iijima and Yuhta Ishii
- 6:30 - 9:00 pm **Dinner at Skyloft Sambuca (Bus Pickup at 6:30 from Homewood Suit)**
- 9:00 – 11:30 pm
- Bus Picks up Downtown at Riverfront Station (1st Ave and Broadway) and Travels to Homewood Suites Every 30 Minutes.**

Saturday, April 14, 2018

8:45 - 9:10 am **Coffee & Light Breakfast - Kissam Center C210**

Parallel Sessions

9:10 - 10:30 am **Network Formation 1 - Kissam Center C210**

- *Trading Networks and Equilibrium Intermediation*, **Maciej Kotowski** and Matthew Leister
- *A Social Network Formation Model Trading-off Exchange Effect and Homophily*, **Yuan Yuan**, Ahmad Kareem and Alex Pentland
- *From Unilateral to Bilateral Link Formation*, **Sihua Ding**
- *Shadow Links*, **Manuel Foerster**, Ana Mauleon and Vincent J. Vannetelbosch

Diffusion and Targeting - Moore College A117

- *Modeling Contagion by Aggregation Functions*, **Michel Grabisch**, Agnieszka Rusinowska and Xavier Venel
- *Opinion Formation and Targeting When Persuaders Have Extreme and Centrist Opinions*, **Agnieszka Rusinowska** and Akylai Taalaibekova
- *Diffusion, Seeding, and the Value of Network Information*, Mohammad Akbarpour, **Suraj Malladi**, and Amin Saberi
- *Friend-Based Targeting*, **Francis Bloch** and Matthew Olckers

10:30 - 10:50 am **Coffee Break & Open Discussion**

10:50 - 12:10 pm **Strategic Interaction and Networks - Kissam Center C210**

- *Graphon games*, **Francesca Parise** and Asuman Ozdaglar
- *Competition for leadership in teams*, Ana Mauleon, **Simon Schopohl**, and Vincent Vannetelbosch
- *Networks, Variational Inequalities and Potential Games*, Yves Zenou and **Junjie Zhou**
- *Network Cycles and Welfare*, Eduard Talamàs and **Omer Tamuz**

Financial Networks - Moore College A117

- *Insider Networks*, **Selman Erol** and Michael Junho Lee
- *Dynamic Interbank Network Analysis Using Latent Space Models*, **Marco van der Leij**, Fernando Linardi, Cees Diks, and Iuri Lazier
- *Counterparty Risk and Network Formation in Over-the-Counter Markets*, Agostino Capponi and **Chris Frei**
- *Firm Networks and Asset Returns*, **Carlos Ramirez**

12:20 - 12:30 pm **“Poster Slam” - Kissam Center C210**

12:30 - 1:20 pm **Lunch & Open Discussion**

1:20 - 2:20 pm **Poster Session - Kissam Center C210**

- *Dynamic Diffusion in a Production Network*, **Matteo Bizzarri**
- *Roles of Weak Ties: Influences of Peers’ Parents on Education Outcomes*, **Bobby Chung**
- *Categorization in Social Networks and the Folly of Crowds*, **Marcos Fernandes**
- *Incentive Compatible Resource Transmission with Punishment*, **Lining Han** and Ruben Juarez
- *Behavioral Communities and the Atomic Structure of Networks*, **Matthew O. Jackson** and Evan C. Storms
- *A large-scale experiment and model of social influence in phone communication networks*, **Yan Leng**, Xiaowen Dong, Esteban Moro, and Alex Pentland
- *Tragedy of the Commons and Evolutionary Games in Social Networks: The Economics of Social Punishment*, **Jorge Marco** and Renan Goetz
- *Cost Sharing in Public Good Game in Networks*, **Prithvijit Mukherjee**
- *Online Red Packets: A Large-scale Empirical Study of Gift Giving on WeChat*, **Yuan Yuan**, Tracy Xiao Liu, Chenhao Tan, and Jie Tang

2:20 - 3:40 pm **Networks and Applications 1 - Kissam Center C210**

- *Collaborative Production in Science: An Empirical Analysis of Coauthors in Economics*, **Seth Richards-Shubik**
- *Women, Rails, and Telegraphs: An Empirical Study of Information Diffusion, Social Interactions, and Collective Action*, **Camilo Garcia**, Jimeno Angel Iglesias and Pinar Yildirim
- *A Measure of Relational Homophily and an Empirical Application to Kin-based Cooperative Networks in Nicaragua*, **Jeremy Koster**
- *Dynamic Risk Sharing*, Johannes Gierlinger and **Pau Milan**

Networked Markets 1 - Moore College A117

- *Market Power and Strategic Pricing in Production Networks*, Cedric Duprez and **Glenn Magerman**
- *Imperfect Price Competition in Networks*, **Emerson Melo**
- *Global Oligopoly with Inventory Carryover*, **Agostino Capponi**, Humoud Alsbah, Benjamin Bernard, Agostino Capponi, Garud Iyengar and Jay Sethuraman
- *The Emergence of Superstar Firms: Cournot Competition in Endogenous Networked Markets*, **Sergio Armandao Camelo Gomez**, Kostas Bimpikis, Sergio A. C. Gomez, and Michael D. König

3:40 - 4:00 pm **Coffee Break & Open Discussion**

4:00 - 5:20 pm **Networks and Applications 2 - Kissam Center C210**

- *Targeted Carbon Tax Reforms*, Bassel Tarbush, **Alex Teytelboym**, and Maia King
- *Aggregate Fluctuations in Adaptive Production Networks*, **Michael Konig**, Andrei Levchenko, Tim Rogers and Fabrizio Zilibotti
- *Go Big or Go Home: Partially-Effective Vaccines Can Make Everyone Worse Off*, **Eduard Talamas** and Rakesh Vohra
- *Network Structure and 'Targeted' Demand-Side Shocks in the Macroeconomy*, Erik Braun and **Tamas Sebestyen**

Information and Learning - Moore College A117

- *Memory, Communication and Social Learning*, **Tanya Rosenblat**
- *Word-of-Mouth Communication and Search*, **Arthur Campbell**, Matthew Leister and Yves Zenou
- *Information Transmission in a Social Network: A Controlled Field Experiment*, Eleonora Patacchini, Paolo Pin, and **Tiziano Rotesi**,
- *Problem Solving In-Sequence versus In-Parallel*, **PJ Lamberson** and John C. Lang

6:30 - 9:00 pm

Dinner at The Sutler (Bus Pickup at 6:30 from Homewood Suites)

9:00 – 11:30 pm

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Sunday, April 15, 2018

8:45 - 9:10 am **Coffee & Light Breakfast - Kissam Center C210**

9:00 - 10:00 am **False Information and Signaling - Kissam Center C210**

- *Debunking Rumors in Networks*, Luca P. Merlino and **Nicole Tabasso**
- *Optimal Signaling of Content Accuracy: Engagement vs. Misinformation*, **Ozan Candogan** and Kimon Drakopoulos
- *False Information and Disagreement in Social Networks*, **Evan Sadler**

Networked Markets 2 - Moore College A117

- *Spatial Pricing in Ride-Sharing Networks*, **Kostas Bimpikis**, Ozan Candogan, and Daniela Saban
- *Sales-Based Aggregate Rebate Design*, **Amir Ajorlou**, Ali Jadbabaie and David Simchi-Levi
- *Dealer Networks in the World of Art*, **Georgia Kosmopoulou**, Dakshina G. De Silva, Marina Gertsberg, and Rachel A.J. Pownall

10:00 - 10:20 am **Coffee Break & Open Discussion**

10:20 - 11:40 am **Network Formation 2 - Kissam Center C210**

- *Multi-Relational Network Formation with Spillovers*, P. Billanda, C. Bravard, S. Joshi, A. S. Mahmudd, and **Sudipta Sarangi**,
- *Polarization When People Choose Their Peers*, **Ugo Bolletta**, Paolo Pin
- *The Private Provision of Public Goods on Endogenous Networks*, **Luca Merlino** and Markus Kinaterder
- *Equilibrium in Concave Continuous Network Formation Games*, **Alan Griffith**

Econometrics of Networks - Moore College A117

- *Nonparametric Identification in Index Models of Link Formation*, **Wayne Yuan Gao**
- *Maximum Likelihood Estimation of Information Diffusion in Dense Networks*, **Sanna Stephan** and Marco van der Leij
- *A Structural Model of Homophily and Clustering in Social Networks*, **Angelo Mele**
- *Dependence-Robust Inference Using Randomized Subsampling*, **Michael Leung**

11:40 - 12:00 pm **Coffee Break**

12:00 - 1:00 pm **Beliefs and Learning - Kissam Center C210**

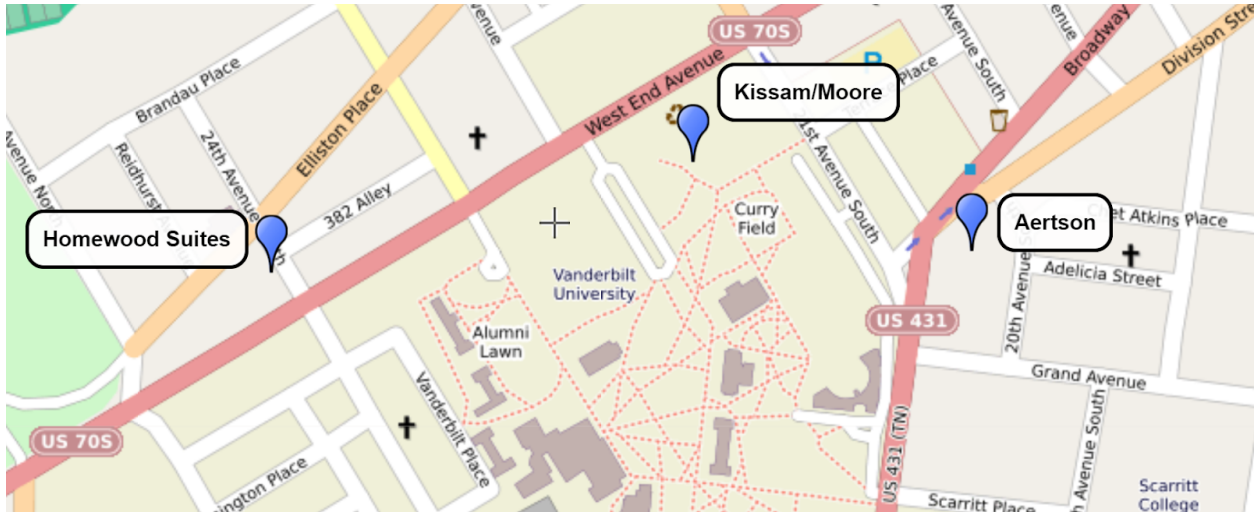
- *The Impact of Social Media on Belief Formation*, **Marco Schwarz**
- *Fast and Slow Learning From Reviews*, **Ali Makhdoumi Kakhaki**, Daron Acemoglu, Azarakhsh Malekian, and Asu Ozdaglar
- *Bayesian Social Learning in a Dynamic Environment*, **Krishna Dasaratha**, Benjamin Golub and Nir Hak

Influence and Information - Moore College A117

- *Measuring Influence in Science: Standing on the Shoulders of Which Giants?*, **Antonin Macé**
- *Information Aggregation in Overlapping Generations*, **Mohammad Akbarpour**, Amin Saberi and Ali Shameli
- *Aggregating decisions from simple tasks to predict complex network behavior: An Experimental Test*, **Evan Calford** and Anujit Chakraborty

Adjourn

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Thank you for joining us for the Fourth Annual Conference on Network Science in Economics, hosted by Vanderbilt University. This conference is sponsored by the National Science Foundation, with additional support from the Department of Economics at Vanderbilt University, and the Department of Economics at Stanford University

