

Workshop III: Cultural Patterns: Multiscale Data-driven Models

Monday May 9, 2016

- 8:00–8:55 *Check-In/Light Breakfast (Hosted by IPAM)*
- 8:55–9:00 *Welcome & Opening Remarks: Dean Miguel García-Garibay (Dean of Physical Sciences, UCLA) and Dima Shlyakhtenko (Director, IPAM)*
- 9:00–9:45 **Limor Shifman** (The Hebrew University of Jerusalem)
Cross-cultural analysis of internet memes: An analytical framework
- 10:00–10:15 *Break*
- 10:15–11:00 **Aram Galstyan** (USC Information Sciences Institute)
Information Theoretic Approaches to Social Computing
- 11:15–11:30 *Break*
- 11:30–12:15 **Tina Eliassi-Rad** (Northeastern University)
Detecting Intentionality through Graph Mining
- 12:30–2:00 *Lunch (on your own)*
- 2:00–2:45 **Lada Adamic** (Facebook)
The recurrence of online memes
- 3:00–3:15 *Break*
- 3:15–4:00 **Rayid Ghani** (University of Chicago)
Machine learning for Public Policy: Case Studies, Challenges, and Opportunities
- 4:30–5:30 **Ingrid Daubechies** (Duke University)
Public Lecture: “The Master’s Hand: Can Image Analysis Detect the Hand of the Master”
- 5:30–7:00 *Reception (Location: IPAM Lobby)*

Tuesday May 10, 2016

- 8:00–9:00 *Breakfast (Hosted by IPAM)*
- 9:00–9:45 **Maria Binz-Scharf** (City University of New York (CUNY))
A relational practice approach to the study of social networks
- 10:00–10:15 *Break*
- 10:15–11:00 **Daniel Romero** (University of Michigan)
Social Networks Under Stress
- 11:15–11:30 *Break*

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- 11:30–12:15 **Mark Newman** (University of Michigan)
Network structure in online dating
- 12:30–2:00 *Lunch (on your own)*
- 2:00–2:45 **Aaron Clauset** (University of Colorado Boulder)
Network Structure and Dynamics of the Scientific Workforce
- 3:00–3:15 *Break*
- 3:15–4:00 **Francesco Bonchi** (ISI Foundation)
Computing spheres of influence
- 4:30–5:30 **Ingrid Daubechies** (Duke University)
Research Lecture: Bones, Teeth and Animation”
- 5:30–7:00 *Reception (Location: IPAM Lobby)*

Wednesday May 11, 2016

- 8:00–9:00 *Breakfast (Hosted by IPAM)*
- 9:00–9:45 **Don Rubin** (Harvard University)
A new class of models for missing data
- 10:00–10:15 *Break*
- 10:15–11:00 **Molly Roberts** (University of California, San Diego (UCSD))
Matching Methods for High-Dimensional Data with Applications to Text (with Brandon Stewart and Richard Nielsen)
- 11:15–11:30 *Break*
- 11:30–12:15 **Ingrid Daubechies** (Duke University)
Mathematicians helping Art Historians and Art Conservators
- 12:30–2:30 *Poster Session & Lunch (on your own)*
- 2:30–3:15 **Joshua Blumenstock** (University of Washington)
Predicting Poverty and Wealth from Mobile Phone Metadata
- 3:30–3:45 *Break*
- 3:45–4:30 **Johan Ugander** (Stanford University)
Ruffled Feathers: When Can Gender Be Inferred on Social Networks?

Thursday May 12, 2016

- 8:00–9:00 *Breakfast (Hosted by IPAM)*
- 9:00–9:45 **Jure Leskovec** (Stanford University)
Global Diffusion via Cascading Invitations: Structure, Growth, and Homophily
- 10:00–10:15 *Break*
- 10:15–11:00 **Peter Dodds** (University of Vermont)
Measuring the Happiness, Health, and Stories of Populations
- 11:15–11:30 *Break*
- 11:30–12:15 **Sinan Aral** (Massachusetts Institute of Technology)
Peer Effects, Social Multipliers and Cascades of Human Behavior
- 12:30–2:00 *Lunch (on your own)*
- 2:00–3:00 **Filippo Menczer** (Indiana University)
Moderator: Roundtable on Culture of Misinformation (I)
- 3:00–3:30 *Break*
- 3:30–5:00 **Filippo Menczer** (Indiana University)
Moderator: Roundtable on Culture of Misinformation (II)

Friday May 13, 2016

- 8:00–9:00 *Breakfast (Hosted by IPAM)*
- 9:00–9:45 **Arun Sundararajan** (New York University)
Personality, Homophily and Embeddedness
- 10:00–10:15 *Break*
- 10:15–11:00 **Don Saari** (University of California, Irvine (UCI))
Understanding Cultural Norms via evolutionary game theory: A new approach
- 11:15–11:30 *Break*
- 11:30–12:15 **Filippo Menczer** (Indiana University)
The Spread of Misinformation in Social Media
- 12:30 *Conclusion*

