

# NetSci 2026

## Parallel Sessions



TIME	SUB ID	PRESENTER	TALK TITLE
<b>PS 1.1 Social Networks 1</b> Wednesday, June 3, 4:30 PM–6:00 PM			
June 3, 4:30 PM	192	Zhuoyu Shi	The Emergence of Causal Curiosity from Prior Causal Belief Networks
June 3, 4:45 PM	310	Mauritz Cartier Van Dissel	Intersectional inequalities in social ties
June 3, 5:00 PM	358	Satyaki Sikdar	Cyberbullying Interaction Networks on Instagram
June 3, 5:15 PM	393	Eric Feltham	Cognitive Expectations of Homophily in Village Social Networks
June 3, 5:30 PM	580	Amir Ghasemian	The structure and function of antagonistic ties in village social networks
June 3, 5:45 PM	284	Alexandre Bovet	Simple contagion drives population-scale platform migration
<b>PS 1.2 Higher-order &amp; Multilayer Networks 1</b> Wednesday, June 3, 4:30 PM–6:00 PM			
June 3, 4:30 PM	119	Yingbang Zang	Hypergraph inference from network data via the minimum description length principle
June 3, 4:45 PM	201	Violet Ross	Modeling Homophilic Hypergraph Growth Using Edge Copying
June 3, 5:00 PM	258	Ariadna Fosch	Creating multilayer networks with controlled overlap and degree distributions
June 3, 5:15 PM	589	Moritz Laber	A Guide to Higher-Order Homophily
June 3, 5:30 PM	314	Alejandro Tejedor Cubero	The Role of Interlayer Directionality in Diffusion and Jamming on Multiplex Networks
June 3, 5:45 PM	519	Abdulla Toleugazin	Semi-supervised Classification in an Undirected Multilayer Networks with Groupwise Subspace Structure
<b>PS 1.3 Algorithms, Inference &amp; Reconstruction 1</b> Wednesday, June 3, 4:30 PM–6:00 PM			
June 3, 4:30 PM	2	Fernando Diaz-Diaz	Disentangling Communities and Factions in Signed Networks through Gremban Expansions
June 3, 4:45 PM	147	Arianna Armanetti	Community Detection in Psychometric Subject Networks
June 3, 5:00 PM	330	Alexandre Cionca	Community Detection for Directed Graphs Reveals Interdisciplinarity in Computer Science
June 3, 5:15 PM	344	Shahar Somin	Community Detection Beyond Network Structure
June 3, 5:30 PM	359	Sadamori Kojaku	Detectability threshold in weighted modular networks
June 3, 5:45 PM	365	Daniel Brennan	NetPair: Structural motifs for physical network distance
<b>PS 1.4 Biological Networks 1</b> Wednesday, June 3, 4:30 PM–6:00 PM			
June 3, 4:30 PM	39	Bnaya Gross	Network Resilience Theory of Aging
June 3, 4:45 PM	97	Garó Kerdelian	Network-driven discovery of food compounds for aging therapeutics
June 3, 5:00 PM	214	Amir Bashan	Assessment of methods for network analysis of single-time-point microbial samples
June 3, 5:15 PM	316	Kimberly Glass	Challenges and Opportunities in Single-Sample Network Modeling
June 3, 5:30 PM	527	Corentin Bisot	Minimal model of spatial growth approaches biological multi-objective optimality
June 3, 5:45 PM	104	Christopher Dalldorf	Subject-specific networks reveal disease-specific regulatory changes

TIME	SUB ID	PRESENTER	TALK TITLE
<b>PS 1.5 Mobility, Spatial &amp; Urban Networks 1</b> Wednesday, June 3, 4:30 PM–6:00 PM			
June 3, 4:30 PM	90	Joshua Rosen	Money does not buy time: Time-richness predicts ability to access and allocate time across urban life
June 3, 4:45 PM	174	Marc Duran Sala	Daily mobility contributes to urban heat exposure inequalities across income and age groups
June 3, 5:00 PM	329	Saumitra Kulkarni	Beyond Proximity: Rethinking Accessibility Through Human Mobility Patterns in US Cities
June 3, 5:15 PM	450	Mariana Macedo	The Parenthood Effect in Urban Mobility
June 3, 5:30 PM	576	Francois Gu	Quantifying the Human Mobility Shift with Remote Work
June 3, 5:45 PM	76	Ketian Chen	Exploring the Relationship Between Human Mobility and Inter-Firm Economic Networks
<b>PS 1.6 Network Epidemics &amp; Spreading 1</b> Wednesday, June 3, 4:30 PM–6:15 PM			
June 3, 4:30 PM	49	Lu Zhong	Enhancing structural resilience in healthcare through patient flow network
June 3, 4:45 PM	64	Nils Gubela	Inferring Transient Behavior Changes During the 2022 Mpx Outbreak Using Adaptive Stochastic Temporal Networks
June 3, 5:00 PM	82	Nicolò Gozzi	Sic Transit Imperium: A Metapopulation-Network Reconstruction of the Antonine Plague
June 3, 5:15 PM	151	Lucille Calmon	Vulnerability of the French hospital network to nosocomial infections
June 3, 5:30 PM	265	Gergely Odor	Inferring spatial transmission matrices from Austrian wastewater sequence data
June 3, 5:45 PM	475	Lewis Mitchell	Demographic Dependence of Vaccine Adoption under Opinion Persuasion
June 3, 6:00 PM	257	Katharina Ledebur	Optimal prevention strategies for chronic diseases in a compartmental disease trajectory model
<b>PS 1.7 Network Theory 1</b> Wednesday, June 3, 4:30 PM–6:00 PM			
June 3, 4:30 PM	53	Anna Gallo	Beyond positive and negative: enriching balance theory with neutral interactions
June 3, 4:45 PM	164	Maximilian Jerdee	Choosing the right stochastic block model
June 3, 5:00 PM	290	Jasper Van Der Kolk	Reproducible Assembly of Complex Networks with Designed Building Blocks
June 3, 5:15 PM	542	Guido Caldarelli	Network theory and machine learning perspectives in the quest of new materials
June 3, 5:30 PM	607	Adilson Motter	Network Field Theory
June 3, 5:45 PM	455	Jialin Zhao	Adaptive Cannistraci Hebb Network Automata Modelling of Complex Networks for Path based Link Prediction
<b>PS 2.1 Science of Science 1</b> Thursday, June 4, 11:00 AM–12:30 PM			
June 4, 11:00 AM	62	Philip Chodrow	Dynamics of Gender Representation in Academic Mathematics
June 4, 11:15 AM	107	Munjung Kim	The Murmuration of Scientists
June 4, 11:30 AM	196	Chethan Prasanna	Faculty mid-career moves among US PhD granting universities
June 4, 11:45 AM	222	Giorgio Tripodi	Tenure and Research Trajectories
June 4, 12:00 PM	345	Ben Aoki-Sherwood	The Network of Interdisciplinary US Faculty Hiring
June 4, 12:15 PM	507	Sirag Erkol	Second Acts in Scientific and Creative Careers
<b>PS 2.2 Social Networks 2</b> Thursday, June 4, 11:00 AM–12:30 PM			
June 4, 11:00 AM	245	Rr. Nefriana	Asymmetric Feedback Loops in Cross-Partisan Interaction Networks
June 4, 11:15 AM	299	Burak Ozturan	Concentration in Digital Information Ecosystems: From Sharing to Exposure
June 4, 11:30 AM	381	Jiduan Wu	Reaching a Consensus in Predictive Loops

TIME	SUB ID	PRESENTER	TALK TITLE
June 4, 11:45 AM	395	Federico Zimmerman	Attraction to politically extreme users on social media
June 4, 12:00 PM	488	Anna Bertani	A Stochastic Model for Understanding the Volatility of the Infodemic Risk Index
June 4, 12:15 PM	508	Buddhika Nettasinghe	How Out-Group Animosity Shapes Partisan Divisions: A Dynamical Model of Affective Polarization on Social Networks
<b>PS 2.3 Higher-order &amp; Multilayer Networks 2</b> Thursday, June 4, 11:00 AM–12:30 PM			
June 4, 11:00 AM	186	Thomas Varley	"Dark information" in complex networks and systems: revealing the synergistic shadow structure.
June 4, 11:15 AM	322	Marko Lalovic	When Can We Detect Higher-Order Contagion? A Likelihood-Based Approach
June 4, 11:30 AM	466	Alberto Liardi	A comprehensive characterisation of the landscape of Partial Information Decomposition applied to synthetic and real-world networks
June 4, 11:45 AM	505	Jongshin Lee	Pairwise representation of higher-order interactions
June 4, 12:00 PM	142	Ingo Scholtes	Towards GPU-accelerated Temporal Graph Learning with Higher-Order De Bruijn Graphs
June 4, 12:15 PM	231	Helcio Felippe	Information theory for hypergraph similarity
<b>PS 2.4 Algorithms, Inference &amp; Reconstruction 2</b> Thursday, June 4, 11:00 AM–12:30 PM			
June 4, 11:00 AM	9	Mattia Marzi	A Bayesian approach to out-of-sample network reconstruction
June 4, 11:15 AM	14	Alec Kirkley	"Reducing" transfer entropy for nonparametric network reconstruction from dynamics
June 4, 11:30 AM	35	Tingyu Zhao	Collective Noise Filtering in Complex Networks
June 4, 11:45 AM	291	Marco Fernández Da Silva	A Review of Coarse-Graining Methods: Insights from Physics, Network Science, and Computer Science
June 4, 12:00 PM	327	Mikhail Rubinov	Equivalences between modularity and diverse low-dimensional representations
June 4, 12:15 PM	336	Cory Scott	Functional Graph Spectra
<b>PS 2.5 Economic Networks 1</b> Thursday, June 4, 11:00 AM–12:30 PM			
June 4, 11:00 AM	93	Laura Mazzarino	Expanding the policy toolbox: A global industry space captures regional diversification paths
June 4, 11:15 AM	252	Hee Youn Kwon	Revisiting Industry Adjacency: from Organizational to Production
June 4, 11:30 AM	25	Giulio Cimini	Inferring firm-level supply chain networks with realistic systemic risk from industry sector-level data
June 4, 11:45 AM	315	Andrea Zaccaria	Analyzing corporate exports with network science tools to predict firm growth
June 4, 12:00 PM	462	Erik Braun	The structure of domestic production networks and production efficiency: the dual economy paradox
June 4, 12:15 PM	463	Tamás Sebestyén	Supplier network connections to multinational enterprises enhance export performance of domestic firms
<b>PS 2.6 Mobility, Spatial &amp; Urban Networks 2</b> Thursday, June 4, 11:00 AM–12:30 PM			
June 4, 11:00 AM	112	Kashin Sugishita	Dynamics between air transport network structure and urban economic activity
June 4, 11:15 AM	150	Sarah Sanchez	Correcting temporal bias in mobility data using time-use surveys
June 4, 11:30 AM	188	Sukhwan Chung	Network Resilience under Chronic Disruption: Contested Road Networks in Ukraine
June 4, 11:45 AM	220	Kevin Teo	Unveiling temporal patterns in the maritime tanker network
June 4, 12:00 PM	368	Dnyanesh Borse	Emergent Scaling Laws in Drainage Networks Shaped by Probabilistic Growth and Landscape Boundaries

TIME	SUB ID	PRESENTER	TALK TITLE
June 4, 12:15 PM	137	Xiyu Yang	Causal discovery of housing-mobility relations in urban residential migration networks
<b>PS 2.7 Dynamics &amp; Control 1</b> Thursday, June 4, 11:00 AM–12:30 PM			
June 4, 11:00 AM	102	Poom Kritpracha	Disassortative community structure can induce oscillations and travelling waves in discrete excitable systems
June 4, 11:15 AM	229	Carolina Mattsson	Partial coalescence of random walks on networks
June 4, 11:30 AM	256	Samuel Koovely	Evolution of Conditional Entropy for Diffusion Dynamics on Graphs
June 4, 11:45 AM	627	Yuanzhao Zhang	Tempological Control of Network Dynamics
June 4, 12:00 PM	158	Arthur Légaré	Analytical prediction of structure-function relationships in networks of Kuramoto oscillators
June 4, 12:15 PM	567	Wesley Clawson	Learning-Driven Reorganization of Neural Tissue Networks
<b>PS 2.8 Network Theory 2</b> Thursday, June 4, 11:00 AM–12:30 PM			
June 4, 11:00 AM	65	Hanlin Sun	Unveiling the importance of nonshortest paths in quantum networks
June 4, 11:15 AM	69	Minsuk Kim	Shortest-path percolation on scale-free networks
June 4, 11:30 AM	139	Timothy Larock	Robustness of Directed Networks to Generalized Edge Set Removal
June 4, 11:45 AM	210	Hoseung Jang	Feedback percolation on networks
June 4, 12:00 PM	243	Sámuel Balogh	Geometric alignment and inference of shortest paths in Soft random geometric graphs
June 4, 12:15 PM	624	Amin Rahimian	Multi-State Bootstrap Percolation for Neuronal Networks
<b>PS 2.9 Social Networks 3</b> Thursday, June 4, 4:30 PM–6:00 PM			
June 4, 4:30 PM	26	Sheila Alemany	Relation Classification for Social Network Analysis in Data-Scarce Scenarios
June 4, 4:45 PM	360	Henrique Ferraz De Arruda	Testing autonomous LLM agents as surrogates for humans in networked social dilemmas
June 4, 5:00 PM	590	Fabian Tschofenig	Network Dynamics of Interacting Contagions on X: From Semantic Barriers to Temporal Spikes in COVID-19 Conspiracy Theories
June 4, 5:15 PM	619	Amir Ghasemian	Trapped by Personalization: LLM-Assisted Recommendations and Their Hidden Impact on Human-AI Ecosystems
June 4, 5:30 PM	620	Eun Cheol Choi	Overstating Attitudes, Ignoring Networks: Large Language Model Biases in Simulating Misinformation Susceptibility
June 4, 5:45 PM	418	Henrique M. Borges	Social Influence in Large Language Models (LLMs) Groups During Cognitive Tasks
<b>PS 2.10 Higher-order &amp; Multilayer Networks 3</b> Thursday, June 4, 4:30 PM–6:00 PM			
June 4, 4:30 PM	12	Kazuki Nakajima	Stochastic block model reveals multi-order block structure of higher-order networks
June 4, 4:45 PM	135	Andres Guzman	Unveiling the impact of cross-order hyperdegree correlations in contagion processes on hypergraphs
June 4, 5:00 PM	161	Narayan Sabhahit	Erdős-Rényi Random Hypergraphs
June 4, 5:15 PM	230	Fabio Saracco	Entropy-based models to randomise real-world hypergraphs
June 4, 5:30 PM	312	Berné Nortier	A geometric model for the emergence of nestedness in higher-order networked systems.
June 4, 5:45 PM	635	Gangmin Son	Interplay of size and degree heterogeneities in the simplicial Ising model on hypergraphs
<b>PS 2.11 Machine Learning &amp; AI 1</b> Thursday, June 4, 4:30 PM–6:00 PM			
June 4, 4:30 PM	136	Lisi Qarkaxhija	Link Prediction with Untrained Message Passing Layers
June 4, 4:45 PM	275	Moritz Lampert	The Self-Loop Paradox: Investigating the Impact of Self-loops on GNNs

TIME	SUB ID	PRESENTER	TALK TITLE
June 4, 5:00 PM	297	Martin Sterchi	Epidemic Source Detection as a New Benchmark Task for Evaluating GNNs
June 4, 5:15 PM	386	Junsung Hwang	Scalable Construction of Spectrally Near-Optimal Networks via Reinforcement Learning
June 4, 5:30 PM	537	Christoph Riedl	Pre-Trained Graph Neural Network for Universal Network Dynamics
June 4, 5:45 PM	573	Justin Wertz	Reinforcement Learning for Respondent-Driven Sampling
<b>PS 2.12 Science of Science 2</b> Thursday, June 4, 4:30 PM–6:15 PM			
June 4, 4:30 PM	37	Ekaterina Landgren	Publication preferences reveal structural diversity of academic fields
June 4, 4:45 PM	63	Haya Almuhanna	Interdisciplinarity Revealed by Transitive Reduction of Citation Networks
June 4, 5:00 PM	253	Dakota Murray	The social structure of scientific disagreement
June 4, 5:15 PM	390	Jianjian Gao	Field-Specific Networks: How Disciplines Shape the Geography of Global Scientific Recognition
June 4, 5:30 PM	470	Kathryn (Kate) Barnes	The Sources and Impacts of Idiosyncrasy in Peer Review
June 4, 5:45 PM	489	Paola Gallo	Following the Laplacian Trail: A Journey in Time Through Scientific Network Evolution
June 4, 6:00 PM	433	Yulin Yu	Dataset re-purposing fuels AI breakthroughs
<b>PS 2.13 Network Epidemics &amp; Spreading 2</b> Thursday, June 4, 4:30 PM–6:00 PM			
June 4, 4:30 PM	33	Sen Pei	Reconstructing the early spatial spread of pandemic respiratory viruses in the United States
June 4, 4:45 PM	85	Luca Santagata	Reconstructing the Worldwide Airport Network using Open Source Data
June 4, 5:00 PM	241	Marton Karsai	Disease-induced immunization is efficient in dense geometric networks
June 4, 5:15 PM	298	Sepehr Ilami	Mobility Networks Make Up for Missing Local Data in Epidemic Forecasting
June 4, 5:30 PM	320	Mauricio Santillana	Network Structure Breaks Homogeneous Mixing: Why Spatial Aggregation Distorts Epidemic Inference
June 4, 5:45 PM	436	Boxuan Wang	An analytical method to calculate epidemics threshold within spatial structure
<b>PS 2.14 Network Renormalization</b> Thursday, June 4, 4:30 PM–6:00 PM			
June 4, 4:30 PM	74	Lorenzo Grimaldi	Decoupling the scaling of the Fiedler eigenvalue from the spectral dimension
June 4, 4:45 PM	128	Chen Zhang	Road Network Renormalization with Preserved Higher-Order Dynamics
June 4, 5:00 PM	162	Giovanni Petri	Harmonic morphisms and dynamical invariants in network renormalization
June 4, 5:15 PM	385	Diego Garlaschelli	Multiscale Network Renormalization
June 4, 5:30 PM	407	Cook Hyun Kim	Scaling and multiscaling invariance in the Laplacian Renormalization Transformation
June 4, 5:45 PM	575	Sudo Yi	Equilibrium-preserving Laplacian Renormalization Group
<b>PS 2.15 Innovation and Collaboration</b> Thursday, June 4, 4:30 PM–6:00 PM			
June 4, 4:30 PM	19	Tiziano Squartini	The hidden structure of innovation networks
June 4, 4:45 PM	38	Michele Coscia	The Western Record Industry Band Collaboration Network
June 4, 5:00 PM	115	Yang Li	Green building blocks reveal the complex anatomy of climate change mitigation technologies
June 4, 5:15 PM	200	Seolmin Yang	Idea Timing: Structure as the Hidden Variable in Innovation
June 4, 5:30 PM	561	Lluis Danus	Structural Diversity and Network Versatility are Higher in Informal Structures of Collaboration
June 4, 5:45 PM	629	Diego Gomez-Zara	Beyond Skills and Similarity: Multilayer Networks and Relational Mechanisms in Team Formation

TIME	SUB ID	PRESENTER	TALK TITLE
<b>PS 3.1 Biological Networks 2</b> Friday, June 5, 11:15 AM–12:30 PM			
June 5, 11:15 AM	367	Istvan Kovacs	The impact of self-interactions on the interactome
June 5, 11:30 AM	451	Salvo Danilo Lombardo	Molecular networks elucidate the epigenetic landscape of food
June 5, 11:45 AM	168	Shaya Kahn	Host-specific recovery of the healthy human gut microbiota after antibiotics
June 5, 12:00 PM	182	Tamanna Urmi	Asynchronous Boolean Network Modeling of the Neuro-Immune System to uncover Autoimmune Disease Emergence
June 5, 12:00 PM	483	Andres Aldana	From Molecular Networks to Diet: Identifying Synergistic Vitamin Effects in Myocardial Infarction
June 5, 12:15 PM	441	Arda Halu	Prioritizing the disease multiome with variant-coupled multilayer quantitative trait loci networks
<b>PS 3.2 Temporal Networks</b> Friday, June 5, 11:15 AM–12:30 PM			
June 5, 11:15 AM	88	Victor Brabant	Discovering Communities in Continuous-Time Temporal Networks by Optimizing L-Modularity
June 5, 11:30 AM	237	Osnat Mokryn	Engagement steady states and volatility in temporal interaction networks
June 5, 11:45 AM	454	Zhipeng Huang	Modeling Continuous-time Interval Graphs using Marked Hawkes Process Network Models
June 5, 12:00 PM	525	Sergey Shvydun	Generating realistic temporal networks with periodic RWIG
June 5, 12:00 PM	122	Giulia De Meijere	Emergence of stability in social and informational temporal networks
June 5, 12:15 PM	438	Santiago Lamata Otín	Multistable active phases in complex contagion with group plasticity
<b>PS 3.3 Network Epidemics &amp; Spreading 3</b> Friday, June 5, 11:15 AM–12:30 PM			
June 5, 11:15 AM	44	Abhay Gupta	Community structure affects $R_0$ in the presence of infection heterogeneity
June 5, 11:30 AM	70	Istvan Kiss	To trace or not to trace: analytical insights from network-based contact-tracing models
June 5, 11:45 AM	500	David O'Sullivan	Modeling diffusion in networks with communities: a multitype branching process approach
June 5, 12:00 PM	280	Katerina Tang	Correlated heterogeneity in simple contagions mimics complex contagions
June 5, 12:00 PM	292	Pietro Coletti	The impact of household physical distancing on the transmission of SARS-CoV-2
June 5, 12:15 PM	465	Mariah Boudreau	Generating function framework for spatiotemporal outbreak analytics
<b>PS 3.4 Machine Learning &amp; AI 2</b> Friday, June 5, 11:15 AM–12:30 PM			
June 5, 11:15 AM	72	Davide Cipollini	Nanoscale networks for information processing
June 5, 11:30 AM	80	Bruno Coutinho	Quantum Network-Based Prediction of Cancer Driver Genes
June 5, 11:45 AM	262	Somayeh Kafaie	Hyperedge Classification for Predicting High-Order Drug Interactions in Pharmacological Networks
June 5, 12:00 PM	366	Akanksha Ahuja	Generative Modelling of Traffic Distributions in Sparse Communication Networks
June 5, 12:00 PM	459	Hao Xu	AIProxiMed: AI-Powered Network Proximity Modeling for Therapeutic Discovery across Pharmacological and Nutritional Chemical Spaces
June 5, 12:15 PM	625	Fosca Giannotti	Learning by Surprise: Surplexity for Mitigating Model Collapse in Generative AI
<b>PS 3.5 Science of Science 3</b> Friday, June 5, 11:15 AM–12:30 PM			
June 5, 11:15 AM	266	Duilio Balsamo	Mapping inequities in global vaccine sentiment research
June 5, 11:30 AM	323	Zhouming Wu	The software space of science
June 5, 11:45 AM	387	Yangfanyu Yang	Quantifying Ageing Effect in Scientific and Innovative Careers

TIME	SUB ID	PRESENTER	TALK TITLE
June 5, 12:00 PM	388	Erzhuo Shao	SciSciGPT: Advancing Human-AI Collaboration in the Science of Science
June 5, 12:00 PM	411	Yifan Qian	The Rise of Large Language Models and the Direction and Impact of US Federal Research Funding
June 5, 12:15 PM	599	Yifang Wang	Funding the Frontier: Visualizing the Broad Impact of Science and Science Funding
<b>PS 3.6 Mobility, Spatial &amp; Urban Networks 3</b> Friday, June 5, 11:15 AM–12:30 PM			
June 5, 11:15 AM	148	Riccardo Di Clemente	Urban semantic: detecting dynamic land use through human mobility patterns
June 5, 11:30 AM	160	Bijin Joseph	Causal inference in the city: Improving Urban Policy Evaluation Through Mobility-Aware Methods
June 5, 11:45 AM	167	Hamish Gibbs	Beyond Demographics: Creating Interpretable Lifestyle Embeddings Across US Cities
June 5, 12:00 PM	406	Guangyuan Weng	Unsupervised Embedding of Mobility Networks Reveals Invisible Barriers in US Cities
June 5, 12:00 PM	532	Dino Pedreschi	The urban impact of algorithmic navigation
June 5, 12:15 PM	535	Luca Pappalardo	The urban impact of AI: modelling feedback loops in location-based recommender systems
<b>PS 3.7 Dynamics &amp; Control 2</b> Friday, June 5, 11:15 AM–12:30 PM			
June 5, 11:15 AM	28	Sangjoon Park	Adaptive Weight Control of Power Grid Networks via Reinforcement Learning
June 5, 11:30 AM	152	Benjamin Claveau	A Koopmanian approach to spectral and geometric properties of dynamics on networks
June 5, 11:45 AM	614	Tobias Timofeyev	Weighted Digraph Dowker Persistence and Applications in Dynamical Systems
June 5, 12:00 PM	307	Vincent Thibeault	A broad class of network motifs enables constants of motion in phase dynamics
June 5, 12:00 PM	332	Guram Mikaberidze	Emergent Topology of Optimal Networks for Synchrony
June 5, 12:15 PM	445	Jack Moore	Early Predictor for the Onset of Critical Transitions in Networked Dynamical Systems
<b>PS 3.8 Economic Networks 2</b> Friday, June 5, 11:15 AM–12:30 PM			
June 5, 11:15 AM	17	Qing Chang	Upward mobility in the green sector for frontline fossil fuel workers
June 5, 11:30 AM	114	Wendi Li	Resilience of Labor Markets Under the COVID-19 Shock: The Role of Job Connectivity
June 5, 11:45 AM	195	Kishan Narayan	Labor Market Networks and Policy Failure: Why Opportunity Zones Didn't Help Residents
June 5, 12:00 PM	398	Wataru Souma	Global Propagation of Economic Policy Uncertainty and Geopolitical Risk: A Complex Network Perspective via Complex Hilbert PCA
June 5, 12:00 PM	457	Matthias Raddant	Networks and Corporate Board Appointments
June 5, 12:15 PM	490	Seyda Köse	Reconstructing temporal multi-relational firm networks at scale using LLMs
<b>PS 3.9 Brain Networks</b> Friday, June 5, 4:15 PM–5:30 PM			
June 5, 4:15 PM	68	Christoffer Alexandersen	Modeling neurodegenerative disease as a spreading process on brain networks
June 5, 4:30 PM	100	Daniel Graham	Message flux imbalance under copy-spread-annihilate dynamics predicts edge weight asymmetries on the mammal connectome
June 5, 4:45 PM	238	Haily Merritt	Social environment dynamics exhibit distinguishable trajectories, distinct mental health outcomes, and dissociable brain network connectivity
June 5, 5:00 PM	461	Carlo Cannistraci	Brain network science modelling of sparse neural networks enables Transformers and LLMs to perform as fully connected

TIME	SUB ID	PRESENTER	TALK TITLE
June 5, 5:15 PM	515	Vaiva Vasiliauskaite	Glioblastoma invasion reorganizes network structure and information flow in in vitro neuronal networks
<b>PS 3.10 Social Networks 4</b> Friday, June 5, 4:15 PM–5:30 PM			
June 5, 4:15 PM	482	Kayla De La Haye	Leveraging Social Networks to Improve Adherence to a Prescribed Diet
June 5, 4:30 PM	370	Zhiqian Chen	Tracing Influence Across Interacting Networks
June 5, 4:45 PM	187	Ryota Kobayashi	Manipulating Collective Opinion through Network Intervention
June 5, 5:00 PM	559	Yifan Li	Beyond Dyads: The Roles of Triadic Closure and Real-Time Co-Presence in the Transmission of Healthy Eating Habits
June 5, 5:15 PM	566	João Brázia	Learning Social Mechanisms for Link Prediction in Signed Social Networks
<b>PS 3.11 Higher-order &amp; Multilayer Networks 4</b> Friday, June 5, 4:15 PM–5:30 PM			
June 5, 4:15 PM	95	Federico Malizia	Nested hyperedges promote the onset of collective transitions but suppress explosive behavior
June 5, 4:30 PM	204	Jia-Jie Qin	Low-Dimensional Phase Diagram of Higher-Order Networked Systems
June 5, 4:45 PM	255	Pietro Traversa	Rumor propagation on hypergraphs
June 5, 5:00 PM	283	Jaume Llabrés	Reducibility of higher-order to pairwise interactions: Social impact models on hypergraphs
June 5, 5:15 PM	302	Juan Restrepo	Higher-order interactions enhance dynamic range in networks of excitable systems
<b>PS 3.12 Algorithms, Inference &amp; Reconstruction 3</b> Friday, June 5, 4:15 PM–5:30 PM			
June 5, 4:15 PM	467	Namrata Banerji	Task-Focused Dynamic Network Inference from Node Attribute Time Series
June 5, 4:30 PM	354	Duc Duong	Network Reconstruction via Jeffreys Prior under Missing Sufficient Statistics
June 5, 4:45 PM	373	Benjamin Miller	UniqueRank: Identifying Important and Difficult-to-Replace Nodes in Attributed Graphs
June 5, 5:00 PM	391	Elisabetta Salvai	Toward Fairness in Network Algorithms: Rankings by Biased Random Walks
June 5, 5:15 PM	501	Krista Gile	Bayesian Resolution of Discrepant Self-Reported Network Ties
<b>PS 3.13 Dynamics &amp; Control 3</b> Friday, June 5, 4:15 PM–5:30 PM			
June 5, 4:15 PM	42	Yiting Sun	Simultaneous Inference of Network Structure and Dynamics: How Much Data is Needed?
June 5, 4:30 PM	337	Hiroki Sayama	Distributed Self-Control of Dynamical Networks by Adaptive Link Weight Adjustments
June 5, 4:45 PM	413	Xiaoge Bao	Quantifying Transient Dynamics in Heterogeneous Networks under Various Inputs
June 5, 5:00 PM	423	Naoki Masuda	Observing network dynamics by a small number of sentinel nodes
June 5, 5:15 PM	581	Esteban Nocet-Binois	Disentangling Spatial and Noise Structures in Network Processes
<b>PS 3.14 Network Theory 3</b> Friday, June 5, 4:15 PM–5:30 PM			
June 5, 4:15 PM	181	Hoyun Choi	Deep Graph Generation for Microcanonical Ensemble with Arbitrary Topological Constraints
June 5, 4:30 PM	193	Xiangyi Meng	Networked Quantum-Classical Interdependency
June 5, 4:45 PM	356	Zhirui Li	Matching and mixing: Matchability of graphs under Markovian error
June 5, 5:00 PM	511	Pedro Duarte	Beyond Direct Links: Structural Mediation in Multipartite Networks
June 5, 5:15 PM	618	Henry Volkmann	Parameter Stability as a Diagnostic of Network Model Misspecification