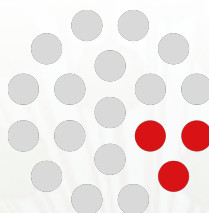




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# PROGRAM

## Monday, 28<sup>th</sup> of July

09:30 – 15:30	LANET SCHOOL – Room 14
15:30 – 16:00	REGISTRATION/WELCOME LANET CONFERENCE – Foyer
16:00 – 16:30	JOSÉ FERNANDO MENDES – Aula Magna Evolution of triangulations: Hausdorff and spectral dimensions
16:30 – 17:00	GUADALUPE PERALTA – Aula Magna Network theory to understand ecological changes
17:00 – 17:30	ANDREA BARONCHELLI – Aula Magna Emergent social coordination and collective bias in human and LLM populations
17:30 – 16:00	WELCOME COCKTAIL – Foyer

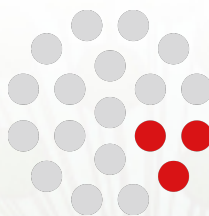
## Tuesday, 29<sup>th</sup> of July

09:30 – 10:00	JAVIER BULDÚ– Aula Magna TBD
10:00 – 10:30	JESÚS GÓMEZ GARDEÑEZ– Aula Magna Recent advances on epidemic spread across metapopulations: From theory to control policies
10:30 – 11:00	COFFEE BREAK – Foyer
11:00 – 11:30	MARIO CHAVEZ – Aula Magna TBD
11:30 – 12:00	PABLO BALENZUELA – Aula Magna A theoretical framework for representing ideological bias through sentiment analysis





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**12:00 – 13:00**      **PARALELL SESSIONS**

**PA01 – Room 7**

12:00 – 12:20

MOJICA-NAVA

Distributed Saddle Point Dynamics for Constrained Resource Allocation Problems in Multiplex Networks

12:20 – 12:40

ALMENDRAL

Anticipating Explosive Synchronization via Local Ordinal Entropy Measures

12:20 – 12:40

MESA PINEDA

Una Nueva Medida para Caracterizar las Estructuras de Ciclos en Redes Complejas

**PA02 – Room 8**

12:00 – 12:20

LOPEZ

Network metrics reveal ecosystem age as a key driver of food web assembly in Greenland ponds

12:20 – 12:40

BORTHAGARAY

Hotspot areas of mass effect and regional connectivity throughout the freshwater landscapes of South America

12:40 – 13:00

SEAMAN

Animal Social Networks and the Dynamics of Information Transmission

**13:00 – 14:30**

**LUNCH BREAK – Canteen**

**14:30 – 16:00**

**PARALELL SESSIONS**

**PA03 – Room 7**

14:30 – 14:50

GANCIO

Anticipating explosive synchronization in networks of Kuramoto oscillators

14:50 – 15:10

MARENCO

Online Change Point Detection for Weighted and Directed Random Dot Product Graphs

15:10 – 15:30

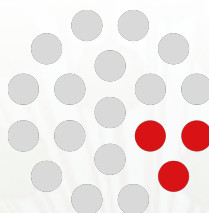
CICCHINI

Robustness analysis of public transportation networks and the relationship between topology and mobility in latin american cities





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#### PA04 – Room 8

- 14:30 – 14:50 BERNAL  
Similarity, Complex Networks, and Machine Learning in Pharmacologically Relevant Molecule Discovery
- 14:50 – 15:10 PICASSO  
Does the service sector stimulate economic growth? A novel approach with machine learning using US Input-Output data
- 15:10 – 15:30 GARCÍA-USUGA  
Redes complejas aplicadas al análisis del transporte público intermunicipal, Caso de estudio: el departamento del Quindío en Colombia
- 15:30 – 15:50 MESA MAZO  
Modelamiento de parámetros físico químicos de aguas superficiales con Redes Complejas: de estudio Departamento del Quindío-Colombia
- 16:00 – 17:15 POSTER SESSION – Foyer

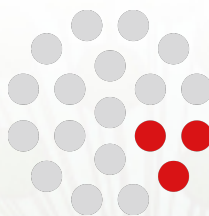
### Wednesday, 30<sup>th</sup> of July

- 09:30 – 10:00 ERNESTO ESTRADA– Aula Magna  
Towards Network Geometroynamics. Directed Networks
- 10:00 – 10:30 PAOLA BERMOLÉN– Aula Magna  
Can we reproduce real networks? A generative latent position model for weighted random graphs
- 10:30 – 11:00 COFFEE BREAK – Foyer
- 11:00 – 11:30 JOSE JAVIER RAMASCO – Aula Magna  
Capturing the linguistic diversity of societies
- 11:30 – 12:00 SILVIO FERREIRA – Aula Magna  
TBD
- 12:00 – 13:00 PARALELL SESSIONS
- 12:00 – 12:20 PA05 – Room 7  
SILVA-COSTA  
Exact solutions of the Kuramoto model with asymmetric higher order interactions of arbitrary order





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12:20 – 12:40

CABANA

Semantic Networks from Word Free Association: Structure and Psycholinguistic Applications

**PA06 – Room 8**

12:00 – 12:20

ALVAREZ

Diffusion analysis of inflationary shocks in the Mexican economy. A study using dynamic network analysis

12:20 – 12:40

PICHARDO

Measuring the structural evolution of street networks

12:40 – 13:00

DE LEON

Connectivity can increase biodiversity resistance to pollution or magnify its impact if equalizing mechanisms are eroded

13:00 – 14:30

**LUNCH BREAK** – Canteen

09:30 – 10:00

MARTA GONZALEZ – Aula Magna

TBD

10:00 – 10:30

PABLO MONZON – Aula Magna

Smart Grids: (complex) power system networks the role of timing on waning immunity

10:30 – 11:00

**COFFEE BREAK** – Foyer

11:00 – 11:30

JORDI SORIANO – Aula Magna

Exploring concepts of complex networks with living neurons grown in the laboratory

11:30 – 12:00

FLORENCIA LEONARDI – Aula Magna

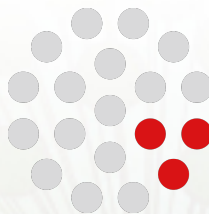
Consistent community detection and model selection in the Stochastic Block Model

Thursday, 31<sup>st</sup> of July





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**12:00 – 13:00**      **PARALELL SESSIONS**

**PA07 – Room 7**

12:00 – 12:20      BETANCOURT

Modelo matemático para la propagación del VIH en una población con estructura de edad y condiciones de riesgo asociadas

12:20 – 12:40      ANZO

Impact of risk perception and mobility preferences on epidemic spread in spatially embedded agent populations

12:40 – 13:00      SALIMI

Theory and Applications of Pursuit-Evasion Games

**PA08 – Room 8**

12:00 – 12:20      VERA-ÁVILA

Electronic implementation of simplicial complexes

12:20 – 12:40      GUTIÉRREZ

Generación y transmisión no trivial de información en redes de mapas logísticos diseñados electrónicamente

12:40 – 13:00      USUGA

Educational Inequities and Social Mobility in Colombia: Insights from Network-Based Analysis

**13:00 – 14:30**      **LUNCH BREAK** – Canteen

**14:30 – 16:00**      **PARALELL SESSIONS**

**PA09 – Room 7**

14:30 – 14:50      COTA

Bridging nodes and their impact on epidemic activation mechanisms

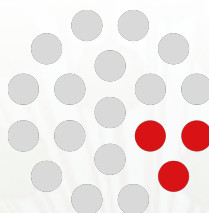
14:50 – 15:10      MARESCA

Threshold-Based Behavior and Epidemic Dynamics on Interacting Networks





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15:10 – 15:30 MORAES  
Visibility graph signatures for criticality in spreading phenomena on networks

15:30 – 15:50 ESTRADA  
Complex Networks for the Dynamic Study of Classical and Quantum Oscillators

**PA10 – Room 8**

14:30 – 14:50 CHERNOMORETZ  
Leveraging Protein Embeddings and Network Theory for Drug Repurposing

14:50 – 15:10 CASTAÑO  
Examining the Influence of ENSO on the Hydroclimatology of Colombia's Inter-Andean Region through Complex Network Analysis

15:10 – 15:30 AGUIRRE  
A distributed reconnection model for complex networks

15:30 – 15:50 CAYSSIALS  
Multiple regime switching models: theory and applications

16:00 – 17:15 **POSTER SESSION** – Foyer

Friday, 1<sup>st</sup> of August

09:30 – 10:00 RONALDO MENEZES– Aula Magna  
Violence, City Size and Geographical Isolation in African Cities

10:00 – 10:30 INMACULADA LEYVA– Aula Magna  
Lost in averaging: local and global intermittencies in complex networks

10:30 – 11:00 **COFFEE BREAK** – Foyer

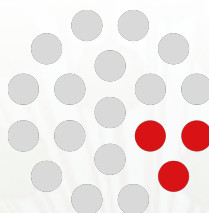
11:00 – 11:30 DAVID SORIANO-PAÑOS– Aula Magna  
Eco-evolutionary constraints shape the endemicity and epidemic trajectories of rapidly evolving viruses

11:30 – 12:00 SEBASTIÁN GONÇALVES– Aula Magna  
Structure, Dynamics, and Prediction in Political Corruption Networks





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12:00 – 13:30

## PARALELL SESSIONS

### PA11 – Room 7

12:00 – 12:20

ESPINOSA

Exploration mechanisms intrinsic to semantic networks and the nuanced appraisal of lexical repetition occurrences

12:20 – 12:40

BRUM

Ultrafast Doppler and functional ultrasound of the brain: a novel research platform in Uruguay for studying functional networks and brain connectivity

12:40 – 13:00

SCHMIDT

Graph Contrastive Learning for Connectome Classification

### PA12 – Room 8

12:00 – 12:20

PERUSQUÍA

Dinámica Poblacional del Gato Doméstico en Entornos Urbanos desde el enfoque de Sistemas Complejos

12:20 – 12:40

COMBARIZA

Decreasing the spectral radius by removal of a node

12:40 – 13:00

BELLO

Graph based models for anomaly detection in multivariate time series

13:00 – 14:30

## CLOSING COCKTAIL