

GEFENOL School Schedule

FIRST WEEK

| | Mon 1 | Tue 2 | Wed 3 | Thu 4 | Fri 5 |
|-------|------------------|-------------------------|------------------------|-------|-------|
| 9:00 | Opening | | | | |
| 9:30 | C1: Karimi | C1: Martín-Gutiérrez | C2: Seoane B. | C2 | C2 |
| 10:00 | | | C3: Mindlin, Amador | | |
| 10:30 | | | | | |
| 11:00 | COFFEE BREAK | | | | |
| 11:30 | COFFEE BREAK | | | | |
| 12:00 | C1 | C3 | | | |
| 12:30 | | | | | |
| 13:00 | LUNCH | | | | |
| 13:30 | LUNCH | | | | |
| 14:00 | LUNCH | | | | |
| 14:30 | Flash Talks 1 | S1: Antonioni | S2: Aguirre | H2 | H3 |
| 15:00 | | Social Experiment | H1 | | |
| 15:30 | | | | | |
| 16:00 | | | | | |
| 16:30 | | | | | |
| 17:00 | | | | | |
| 17:30 | | | | | |

SECOND WEEK

| | Mon 8 | Tue 9 | Wed 10 | Thu 11 | Fri 12 | |
|-------|------------------|-----------------|-----------------------|------------------|--------|-------|
| 9:00 | C4: Letellier | C4 | C4 | C5 | C5 | 9:00 |
| 9:30 | | | C5: Castro | | | 9:30 |
| 10:00 | | | | | | 10:00 |
| 10:30 | COFFEE BREAK | | | | | 10:30 |
| 11:00 | COFFEE BREAK | | | | | 11:00 |
| 11:30 | C6: Seoane L. | C6 | C6 | C7 | H7 | 11:30 |
| 12:00 | | | C7: Buldú, Galeano | | | 12:00 |
| 12:30 | | | | | | 12:30 |
| 13:00 | LUNCH | | | | | 13:00 |
| 13:30 | LUNCH | | | | | 13:30 |
| 14:00 | LUNCH | | | | | 14:00 |
| 14:30 | LUNCH | | | | | 14:30 |
| 15:00 | Flash Talks 2 | S3: Guerrero | S4: Gutiérrez | S5: Valeriani | | 15:00 |
| 15:30 | | H4 | H6 | H5 | | 15:30 |
| 16:00 | | | | | | |
| 16:30 | | | | | | 16:30 |
| 17:00 | | | | | | 17:00 |
| 17:30 | | | | | | 17:30 |

Courses

First Week

- **C1 & H1: *Measuring Inequalities in Complex Systems*.** F. Karimi & S. Martín-Gutiérrez.
- **C2 & H2: *Modeling data with energy-based generative models: applications to genomics/proteomics*.** B. Seoane.
- **C3 & H3: *Dynamical systems and artificial intelligence applied to data modeling*.** G. Mindlin & A. Amador.

Second Week

- **C4 & H4: *From nonlinear dynamics to biological data*.** C. Letellier.
- **C5 & H5: *Model identifiability in complex systems*.** M. Castro.
- **C6 & H6: *Approaches to Neuroscience from Complex Systems and Mathematics*.** L. Seoane.
- **C7 & H7: *Complex Systems & Sports Analytics*.** J.M. Buldú & J. Galeano.

Seminars

- **S1: *Evolutionary games: From theory to human experiments (and back)*.** A. Antonioni.
- **S2: *Emergence of complexity in the origin and early evolution of life*.** J. Aguirre.
- **S3: *Modeling the Influence of Loss of E-Catherin and Stroma Attachment in Cancer Cell Invasion: a Mathematical Approach*.** P. Guerrero.
- **S4: *Universal behavior in the dynamics of synchronizing oscillators and surface growth phenomena*.** R. Guitierrez.
- **S5: *Mesoscale simulations as a tool to study complex systems*.** C. Valeriani.