

| Time | Friday, January 3 | |
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| 8:00 - 8:30 | Registration with coffee and pastries | |
| 8:30 - 8:45 | Opening Remarks | |
| 8:45 - 9:20 | Bard Ermentrout (University of Pittsburgh) | Spatial resonances as a mechanism for pattern sensitive epilepsy and visual discomfort |
| 9:20 - 9:40 | Evan Davis (UCLA) | A model of mass shedding dynamics in thin-film particle-laden flows |
| 9:40 - 10:15 | Ian Grooms (CU Boulder) | Non-Kalman ensemble filters for high-dimensional dynamical systems in the geosciences |
| 10:15 - 10:55 | Coffee Break | |
| 10:55 - 11:15 | Golnar Gharooni Fard (CU Boulder) | Data-driven Modeling of Honeybee Communication During Aggregation and Food Exchange |
| 11:15 - 11:50 | Brian Hunt (University of Maryland) | Using Machine Learning to Improve Modeling of Complex Dynamical Systems |
| 11:50 - 12:10 | Joao Lizárraga (UNICAMP) | Synchronization of Sakaguchi Swarmalators |
| 12:10 - 2:00 | Lunch Break | |
| 2:00 - 2:40 | Flash Talks Session A | |
| 2:40 - 3:15 | Elizabeth Cherry (Georgia Tech) | Predicting complex spatiotemporal cardiac voltage dynamics using reservoir computing |
| 3:15 - 3:35 | Haotian Hang (University of Southern California) | Fish schooling at extreme scales |
| 3:35 - 4:05 | Coffee Break | |
| 4:05 - 4:25 | Emma Zajdela (Princeton and Santa Fe Institute) | Back in Fashion: Modeling the Cyclical Dynamics of Trends |
| 4:25 - 5:00 | Lai-Sang Young (New York University) | Neural mechanisms for pursuit eye movements |
| 5:00 - 5:20 | Guram Mikaberidze (University of Wyoming) | Network optimization for synchronizing systems with physics-informed AI |
| 5:20 - 7:30 | Dinner Break | |
| 7:30 - 9:30 | Poster Session A | |

| Time | Saturday, January 4 | |
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| 8:00 - 9:00 | Registration with coffee and pastries | |
| 9:00 - 9:20 | Adrian Pelcaru (Technical University Dresden) | Causality in nonlinear time series related to COVID-19 |
| 9:20 - 9:40 | Tim Wilhelm Kroll (University of Münster) | Sparse identification of evolution equations via bayesian model selection |
| 9:40 - 10:15 | Iain Couzin (Max Planck Institute for Animal Behavior) | The spatiotemporal dynamics of decision-making |
| 10:15 - 10:55 | Coffee Break | |
| 10:55 - 11:15 | Sara Clifton (Denison University) | Bystander effect emerges from individual psychological prospects |
| 11:15 - 11:50 | Per Sebastian Skardal (Trinity College) | Identifying and suppressing unknown disturbances to dynamical systems using machine learning |
| 11:50 - 12:10 | Jay Fineberg (The Hebrew University of Jerusalem) | The Fundamental Physics of the Onset of Frictional Motion: How do laboratory earthquakes nucleate? |
| 12:10 - 2:00 | Lunch Break | |
| 2:00 - 2:40 | Flash Talks Session B | |
| 2:40 - 3:15 | Mason Porter (UCLA) | Bounded-Confidence Models of Opinion Dynamics on Networks |
| 3:15 - 3:35 | Bryan Daniels (Arizona State University) | Navigating bifurcations in collective decisions |
| 3:35 - 4:05 | Coffee Break | |
| 4:05 - 4:40 | Melike Sirlanci (University of Colorado Anschutz) | Dynamic System Modeling to Quantify Sex Differences in Type 2 Diabetes Pathogenesis |
| 4:40 - 5:15 | Andrea Bertozzi (UCLA) | To be determined |
| 5:15 - 7:30 | Dinner Break | |
| 7:30 - 9:30 | Poster Session B | |

| Time | Sunday, January 5 | |
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| 8:00 - 8:45 | Registration with coffee and pastries | |
| 8:45 - 9:20 | Lou Pecora (University of Maryland) | Statistics for Differential Topological Properties between Data Sets with an Application to Reservoir Computers |
| 9:20 - 9:40 | Chris Curtis (San Diego State University) | Time Stepping in Dynamic Mode Decomposition via Machine Learning |
| 9:40 - 10:00 | Cody Fitzgerald (Northwestern University) | Physiological Models of Heterothermy |
| 10:15 - 10:45 | Coffee Break | |
| 10:45 - 11:05 | Daniel Cooney (University of Illinois Urbana-Champaign) | Spatial Pattern Formation and the Evolution of Cooperative Behavior |
| 11:05 - 11:40 | John Crimaldi (CU Boulder) | Scalar transport is rigged: Complex stirring and ecologic destiny |
| 11:40 - 12:00 | Heather Cihak (University of Minnesota) | Remember to forget: a mechanistic bump-attractor model of optimal forgetting with respect to serial bias |
| 12:00 - 1:50 | Lunch Break | |
| 1:50 - 2:25 | David Campbell (Boston University) | Periodic Orbits in Fermi-Pasta-Ulam-Tsingou Systems |
| 2:25 - 2:45 | Johannes Kassel (Max Planck Institute - Dresden) | Utilizing long memory and circulation patterns for stochastic forecasts of temperature extremes |
| 2:45 - 3:05 | Heather Zinn-Brooks (Harvey Mudd College) | Learning interaction kernels in asynchronous opinion dynamics on networks |
| 3:05 - 3:35 | Coffee Break | |
| 3:35 - 4:10 | Björn Sandstede (Brown University) | Data-driven methods for inference in dynamical systems |
| 4:10 - 4:30 | Tim Sauer (George Mason University) | Robust methods for coupling detection in nonlinear time series |
| 4:30 - 4:40 | Closing Remarks | |