

Schedule

	Modeling the Invisible workshop			
	Wednesday June 3 - Saturday June 6, 2026			
	Georgia State University, Atlanta, Georgia			
	Mathematics Interactive Learning Environment (MILE) Lab, 25 Park Place NE			
	Wednesday	Thursday	Friday	Saturday
	June 3	June 4	June 5	June 6
8:00 AM		Breakfast	Breakfast	Breakfast
8:00 AM		Registration		
9:00 AM		Welcome and start	Start	"When can we trust a model: FAIR, CURE, VVUQ and more", Speakers: Drs. Jiang and Sluka
9:15 AM		Speaker: Alessandro Vespignani, Northeastern Univ., "From the Unseen to Foresight: Epidemic Modeling in the Age of Computing and AI"	Speaker: Nicolò Gozzi, Northeastern Univ., "Introducing Epydemix, The ABC of Epidemics"	
10:00 AM		1st Challenge: Release of first set of data	1st Challenge Results. 2nd Challenge: Release of first set of data	1. Group Photo 2. Reveal our model, Dr. Zamitsyna 3. Workshop summary 4. Scoring results 5. Awards
11:00 AM		Attendees presentations (15 min each) 1. Mahdi Mazloum "Inferring Multi-Regional Network Models from Whole-Brain Neural Recordings" 2. Sunday Gbodogbe "Synchronization of Recurrent Epidemic Waves in Coupled Nonlinear Two-Patch Models" 3. Xinyi Liu, "Modeling the growth and esophageal disease progression" 4. Rueda Cediel, "A metapopulation model of polyploids"	Speaker: Shihao Yang, Georgia Tech, "Infectious Disease Forecasting with Digital Data Streams"	
12:00 PM		Lunch (provided)	Lunch (provided) Challenge 2, release 2	Adjourm
		2nd set of data	3rd set of data	
1:00 PM		Speaker: Sarabeth Mathis, CDC/NCIRD/ID, "Surveillance, Influenza, and Forecasting"	Attendees presentations Teams present summary of their models (5 minutes)	
2:00 PM		3rd set of data	4th set of data	
3:00 PM		Attendees presentations (15 min each) 1. Leroy Jia "Mechanistic analysis of esophageal corkscrewing driven by active contraction" 2. Bryan Barrios, "Modeling Sepsis Progression with an Immune-Cardiovascular ODE System and Predicting ICU Sepsis Risk with LSTM Networks Part 1" 3. Raj Subedi, "Phenomenological growth models to fit and forecast disease outbreaks" 4. Ammar Yasir	Attendees presentations (15 min each) 1. Bryan Barrios, "Modeling Sepsis Progression with an Immune-Cardiovascular ODE System and Predicting ICU Sepsis Risk with LSTM Networks Part 2" 2. Sunday Gbodogbe 3. Maruf Lawal "Modeling the interplay of Covid 19 dynamics and vaccine hesitancy" 4. Sydney Shimizu, "How telehealth shaped substance use treatment during the COVID 19 pandemic"	
4:00 PM		4th set of data	Release solution to 4th data set	
5:00 PM				
6:00 PM	Registration and reception, MILE Lab, 25 Park Place NE	Dinner (on your own)	Dinner (on your own)	
7:00 ~ 9:00 PM		Posters: 1. Taiwo Ayeni "Quadratic Transformation of the Exponential-Gamma Distribution" 2. Dilmini Warnakulasooriya "Comparative Analysis of β -Adrenergic Stimulation of Myocyte Contraction by Different Agonists" 3. Kayode Okunola "An Empirical Comparison of Grouped Variable Selection Methods Using Community Crime Data" 4. Manav Arora "Topological Data Analysis Combined With Machine Learning For Predicting Permeability Of Porous Media"	Posters continue	