

SES 494/598: Fundamentals of Complexity

Final Presentations: Information Processing in Complex Networks

May 5th 2016

10am – 1pm, PSF 566

Talks are 10min w/ 5min for Q&A. There is time allotted for general discussion at the end of each session.

10AM	Coffee/donuts and introduction to scope of work (Sara Walker)
10:10AM	Information Processing in Physical and Chemical Systems
10:10	Information Measures and Criticality in the Ising Model on Scale Free Topology (Jake Hanson)
10:25	Information Processing in Cooperative RNA Networks (Cole Mathis)
10:40	General Discussion
10:50AM	Information Processing in Gene Regulatory Networks
10:50	C. Elegans Gene Regulatory Network (Kelle Dhein)
11:05	Modeling the Mammalian Cell Cycle as a Boolean Gene Regulatory Network (Tesss Fisher)
11:20	Dynamics of a Simplified p53 Network (Bradley Karas)
11:35	General Discussion
11:45AM	Information Processing in Social and Technological Systems
11:45	Delay Propagation through the 20 Busiest US Airports (Alicia Gonzalez)
12	Boolean Delay in Economic Models (Emmanuel Banda)
12:15	LoLIntelligence: Alpha Development (Alyssa Adams)

12:30	Shakespearian Information: Transfer Entropy of Associated Character Interactions within Much Ado About Nothing (Tucker Ely)
12:45	General Discussion