Advance Theory Seminar
Spring 2020
Organized by Rainer Engelken

Meetings: Wednesdays, 10.15 - 11.45am

See course website for updated schedule

Control Theory and Reinforcement Learning
1/29/2020  Examples of control theory in neuroscience
           (Bettina Hein, Laureline Logiaco)
2/5/2020   Methods in control theory
           (Bettina Hein, Laureline Logiaco)
2/12/2020  Reinforcement learning
           (James Murray)
2/19/2020  From optimal control theory to reinforcement learning
           (Samuel Muscinelli)
2/26/2020  COSYNE Break
3/4/2020   COSYNE Break

Latent Variable Models
3/11/2020  Hidden Markov Models
           (Matt Whiteway)
3/18/2020  Latent Dynamical Systems
           (Josh Glaser)
3/25/2020  Gaussian Processes
           (Rainer Engelken)
4/1/2020   Modeling of Behavior
           (Juri Minxha)
4/8/2020   Hackathon on Latent Variable Models

Miscellaneous
4/15/2020  Phenomenological Renormalization Group
           (Serena Di Santo)
4/22/2020  Additional and diverse perspectives in neuroscience
           (Laureline Logiaco, Matt Whiteway, Juri Minxha)
4/29/2020  Introduction to replica theory
(SueYeon Chung)

5/6/2020  Classification and Geometry of General Perceptual Manifolds
(SueYeon Chung)