MLSS: June 17-21, 2019

Monday	Tuesday	Wednesday	Thursday	Friday
Morning session: 9:00 – 10:15am and 10:45 – noon each day				
Instructor: David Carlson	Instructor: Tim Dunn	Instructor: Larry Carin	Instructor: Ricardo Henao	Instructor: Larry Carin
Introduction to MLModel buildingBackpropagationScaling up	Deep CNNsImage analysis	 Natural language processing (NLP) Word embeddings Recurrent neural networks Transformer network 	 Generative adversarial network (GAN) Different perspectives on GAN Applications of GAN 	 Reinforcement learning (RL) Applications of RL
Early-afternoon session: 1:30 – 2:45pm each day				
Instructor: Rachel Draelos	Instructor: Matt Engelhard	Instructor: Dinghan Shen	Instructor: Jessilyn Dunn	Instructor: Henry Pfister
Case study: MLPs for electronic health record analysis	Case study: CNNs & health	Case study: NLP in practice	 Case study: Arrhythmia detection from electrocardiograms using deep neural networks 	 Introduction to theoretical issues in ML
Late-afternoon session: 3:15 – 4:45pm on Monday-Thursday				
Instructor: Alex Lew	Instructor: Johnny Sigman	Instructor: Alex Lew	Instructor: Alex Lew	

TensorFlow for NLP

TensorFlow for GANs

• Basics of TensorFlow

TensorFlow for CNNs

and image analysis