Course schedule

CS280: Deep Learning

Schedule and Syllabus

- Lecture hours: 10:15am - 11:45am Tue, 10:15am - 11:45am Fri
- Location: Teaching Center 303
- Discussion sessions: TBA

Event	Date	Description	Course Materials	Assignments Quizzes
Lecture 1	Tuesday 10/09 Week 1	**Course Introduction** Deep learning overview Course logistics Machine Learning Basics	See Piazza	
Lecture 2	Thursday 12/09 Week 1	**Basic Neural Networks** Linear regression Perceptrons		
Lecture 3	Tuesday 17/09 Week 2	**Basic Neural Networks** Multi-class linear classifier Single-layer networks		**Quiz 1**
Lecture 4	Thursday 19/09 Week 2	**Basic Neural Networks** Multi-layer Perceptrons Forward and Bakcpropagation		**A1 Out**
Lecture 5	Tuesday 24/09 Week 3	**Convolutional Neural Networks - I** Convolution and pooling Equivariance		
Lecture 6	Thursday 26/09 Week 3	**Convolutional Neural Networks - II** CNN architectures		**Quiz 2**
National Days	Tuesday 01/10 Week 4	NO CLASS		
National Days	Thursday 04/10 Week 4	NO CLASS		
Lecture 7	Tuesday 08/10 Week 5	**Convolutional Neural Networks - III** Network Training Optimization		**Quiz 3**
Lecutre 8	Thursday 10/10 Week 5	**Convolutional Neural Networks - IV** Optimization Regularization		**A1 Due**
Lecture 9	Tuesday 15/10 Week 6	**CNN in Vision - I** Semantic segmentation		**Quiz 4** **A2 Out**
Lecture 10	Thursday 17/10 Week 6	**CNN in Vision - II** Object detection Object Segmentation		
Lecture 11	Tuesday 22/10 Week 7	**CNN in Vision - III** Visualizing and Understanding Interpretation		**Quiz 5**
Lecture 12	Thursday 24/10 Week 7	**CNN in Vision - IV** Style Transfer Adversarial examples		
ICCV	Tuesday 29/10 Week 8	NO CLASS		
ICCV	Tuesday 31/10 Week 8	NO CLASS		
Lecture 13	Tuesday 05/11 Week 9	**Recurrent Neural networks - I** Sequence modeling, RNN BP Through Time		**Quiz 6** **A2 Due**
Lecture 14	Thursday 07/11 Week 9	**Recurrent Neural Network - II** LSTM, GRU Attention		**Project Out (10/11)**

Event	Date	Description	Course Materials	Assignments Quizzes
Lecture 15	Tuesday 12/11 Week 10	**RNN in Vision and NLP** Neural MT，Image caption		**A3 Out** **Quiz 7**
Lecture 16	Thursday 14/11 Week 10	**Generative Models - I** Unsupervised learning Latent variable models, EM Autoencoder		
Lecture 17	Tuesday 19/11 Week 11	**Generative Models - II** Autoencoder, VAE		**Quiz 8**
Lecture 18	Thursday 21/11 Week 11	**Generative Models - III** VAE & GAN I: Basics		**Proposal Due**
Lecture 19	Tuesday 26/11 Week 12	**Generative Models - IV** GAN II: GAN in vision		**Quiz 9**
Lecture 20	Thursday 28/11 Week 12	**Generative Models - V** GAN III: Improving GAN		
Lecture 21	Tuesday 03/12 Week 13	**Generative Models - VI** Autoregressive models, PixelRNN		**A3 Due** **Quiz 10**
Lecture 22	Thursday 05/12 Week 13	**Deep Reinforcement Learning - I** Q learning, DQN		
Lecture 23	Tuesday 10/12 Week 14	**Deep Reinforcement Learning - II** Policy gradient, Control		
Lecture 24	Thursday 12/12 Week 14	**Recent Progress in Deep Learning** Transformer, Graph Neural Networks		
-	Tuesday 17/12 Week 15	Project		**Project Milestone**
-	Thursday 19/12 Week 15	Project		
-	Tuesday 24/12 Week 16	Project		
-	Thursday 26/12 Week 16	Project		
-	Tuesday 31/12 Week 17	NO CLASS		
-	Thursday 02/01 Week 17	**Project Presentations** Subject to Exam Schedule		
-	Tuesday 07/01 Week 18	NO CLASS		**Project Due**
-	Thursday 09/01 Week 18	NO CLASS		

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Updated 2 years ago by Haozhe Wang and Rongjie Li

followup discussions *for lingering questions and comments*