

# CS 182 Papers Referenced

lec	Paper	Learned Topic
2	Enabling Zero-shot Translation (Google, 2016)	Representations
2	AlexNet (2012)	DL
2	Unsupervised learning models of primary cortical receptive fields... (2013)	Does DL learn like our brain
4	Visualizing the Loss Landscape of Neural Nets (2017)	Optimization
4	The loss surfaces of multilayer networks (2015)	Optimization
6	ResNet (2015)	CNNs
7	BatchNorm (2015)	Batch Normalization
7	Snapshot Ensembles: Train 1, Get M For Free (2017)	Ensembles
8	OverFeat (2018)	CV
8	You only look once (2015)	CV
8	Fast R-CNN (2015)	CV
8	Faster R-CNN (2015)	CV
8	SSD: Single Shot Multibox Detector (2015)	CV
8	Fully CNNs for Semantic Segmentation (2014)	CV
8	U-Net (2015)	CV
9	Rich Feature Hierarchies for accurate object detection and semantic segmentation (2014)	Visualization
9	Striving for Simplicity: The All Convolutional Net (2014)	Visualization
9	Deep Inside Convolutional Networks: Visualizing Image Classification Models and Saliency Maps (2013)	Visualization
9	Understanding Neural Networks Through Deep Vis (2015)	Visualization
9	A Neural Algorithm of Artist style (2015)	Visualization
10	Scheduled sampling for Sequence Prediction with Recurrent Neural Networks (2015)	RNNs
12	Attention Is All You Need (2017)	Transformers
12	Generating Wikipedia by summarizing long sequences (2018)	Transformers
13	Linguistic Regularities in Continuous Space Word Representations	NLP
13	Deep Contextualized word representations	NLP
14	End To End Learning for Self-Driving Cars	Imitation Learning
14	A Reduction of Imitation Learning and Structured Prediction to No-Regret Online Learning	Imitation Learning
15	Simple Statistical Gradient-Following Algorithms for Connectionist RL	Policy Gradients
15	Recurrent Models of Visual Attention (2014)	Policy Gradients
15	Guided Policy Search (2013)	Policy Gradients
15	Trust region policy approximation (2015)	Policy Gradients
15	Proximal policy optimization (2017)	Policy Gradients
16	TD-Gammon (1992)	Actor-Critic / Q-Learning
16	Mastering the Game of Go without Human Knowledge (2016)	Actor-Critic / Q-Learning



Lec	Paper	Learned Topic
17	Pixel Recurrent Neural Networks (2016)	Generative Models
17	Image Transformer (2018)	Generative Models
17	Autonomous reinforcement learning from raw visual data (2012)	Generative Models
18	NICE: Nonlinear Independent Component Estimation (2014)	Latent Variable Models
18	Real-NVP: Non-Volume Preserving Transformation (2016)	Latent Variable Models
19	Generative adversarial networks (2014)	GANs
19	Progressive Growing of GANs (2017)	GANs
19	Large-Scale GAN Training... (2018)	GANs
19	Image-to-Image Translation with Conditional Adversarial Nets (2017)	GANs
19	Conditional generative adversarial nets (2014)	GANs
19	Unpaired image-to-image translation using cycle-consistent adversarial networks (2017)	GANs
19	Least Squares Generative Adversarial Networks (2017)	GANs
19	Wasserstein generative adversarial networks (2017)	GANs
19	Which Training Methods for GANs do Actually Converge? (2018)	GANs
19	Improved Training of Wasserstein GANs (2017)	GANs
19	Spectral Normalization for Generative Adversarial Networks (2018)	GANs
20	"Why should I Trust You?" Explaining the Predictions of Any Classifier (2016)	Adversarial Examples
20	Explaining and Harnessing Adversarial Examples (2014)	Adversarial Examples
20	Robust Physical-World Attacks on DL Visual Classification (2018)	Adversarial Examples
20	Synthesizing Robust Adversarial Examples (2017)	Adversarial Examples
20	Adversarial Examples that Fool both Computer Vision and Time-Limited Humans (2018)	Adversarial Examples
20	Adversarial Examples are Not Bugs, They Are Features (2019)	Adversarial Examples
20	Transferability in ML: from Phenomena to BlackBox Attacks using Adversarial Examples (2016)	Adversarial Examples
20	Delving into Transferable Adversarial Examples and BlackBox Attacks (2017)	Adversarial Examples
21	Meta-Learning with Memory-Augmented Neural Networks (2016)	Meta-Learning
21	A Simple Neural Attention Meta-Learner (2018)	Meta-Learning
21	Matching Networks for One-Shot Learning (2017)	Meta-Learning
21	Prototypical Networks for Few-Shot Learning (2018)	Meta-Learning
21	Model-Agnostic Meta-Learning (2017)	Meta-Learning
21	Memory-based control with recurrent neural networks (2015)	Meta-Learning
21	Learning to Reinforcement Learning (2016)	Meta-Learning
21	RL <sup>2</sup> : Fast Reinforcement Learning via Slow Reinforcement Learning (2016)	Meta-Learning
21	Efficient off-Policy Meta-RL via Probabilistic Context Variables (2019)	Meta-Learning