

## Deep Reinforcement Learning and Hierarchical Reinforcement Learning

Good Curriculum here:

<https://medium.com/@yuxili/resources-for-deep-reinforcement-learning-a5fdf2dc730f>

RL

Deep Learning

Hierarchical RL

*Perspective*

- Read Introduction to RL by Barto and Sutton
- Read Deep Learning by Goodfellow, Bengio, and Courville
- Read Deep RL Hands-On by Maxim Lapan
- Read The Master Algorithm by Peter Domingos
- Implement Tabular Sarsa and Sarsa(Lambda) with Fourier Basis Functions
- Implement A2C (Actor-Critic)
- Implement DQN (Deep Q-Network)
- Watch course: Hierarchical RL – IIT Madras
- Watch course: Advanced Deep Reinforcement Learning – DeepMind UCL
- Watch course: RL by David Silver - UCL
- Watch course: DRL Bootcamp – UC Berkeley
- Watch course: DL/RL – CIFAR Vector Institute
- Watch course: Sergey Levine, UC Berkeley CS 294:
- Watch course: Deep Learning: Andrew Ng
- Watch course: Artificial General Intelligence -MIT
- Read papers:
  - Mastering the game of go
  - Atari with DQN
  - Option-Critic Network
  - Meta-Learning Shared Hierarchy
  - Exploration by Random Network Distillation
  - Differentiable Neural Computers
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- Implement:
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