



4 Courses

**Fundamentals of  
Reinforcement Learning**

**Sample-based Learning  
Methods**

**Prediction and Control with  
Function Approximation**

**A Complete Reinforcement  
Learning System (Capstone)**



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**Alfonso Cavallo**

has successfully completed the online, non-credit Specialization

# Reinforcement Learning

The Reinforcement Learning Specialization consists of 4 courses exploring the power of adaptive learning systems and artificial intelligence (AI). In this specialization, learners were taught to: Build a Reinforcement Learning system for sequential decision making; understand the space of Reinforcement Learning algorithms (Temporal- Difference learning, Monte Carlo, Sarsa, Q-learning, Policy Gradients, Dyna, and more); understand how to formalize a task as a Reinforcement Learning problem, and how to begin implementing a solution; understand how RL fits under the broader umbrella of machine learning. This learner is now prepared to take more advanced courses in AI or apply AI tools to real world problems.

Martha White  
Assistant Professor  
Computing Science  
Faculty of Science

Adam White  
Assistant Professor  
Computing Science  
Faculty of Science

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