

TECHNICAL SKILLS

Fields	Reinforcement Learning, Artificial Intelligence, Deep Learning, Deep Reinforcement Learning
Subfields	Value-based methods, Actor-Critic methods, Curriculum Learning, Multi-agent systems
Methodologies	Agile, Scrum, OOP, OOD, OOA, TDD, BDD
Languages	Python, Java, C++, C, C#, R
Frameworks	OpenAI Gym, Numpy, PyTorch, Scipy
Tools	AFSIM, git, Docker, Emacs, UNIX tools
OSs	Linux (Arch, RedHat, Debian), Windows, ESXi

FORMAL EDUCATION

Georgia Institute of Technology ETA 2025
 PhD in Computer Science – GPA -/4.00
 Machine Learning & Intelligent Systems Specialization

Georgia Institute of Technology May 2017
 MS in Computer Science – GPA 3.70/4.00
 Interactive Intelligence Specialization

Florida Atlantic University Dec 2010
 BS in Computer Science – GPA 3.88/4.00
 Upsilon Pi Epsilon – Computer Science Honors Society

Broward College Dec 2009
 AA in Computer Science – GPA 3.66/4.00

CERTIFICATES AND ADVANCED COURSES

Udacity Deep Learning Foundations Nanodegree	Jan 2018
Udacity Self-Driving Car Nanodegree	Oct 2017
Udacity Machine Learning Nanodegree	Jun 2016
GaTech Artificial Intelligence	May 2016
GaTech Machine Learning	May 2016
GaTech Reinforcement Learning and Decision Making	Dec 2015
GaTech Artificial Intelligence for Robotics	Dec 2014

EXTERNAL PROJECTS

Grokking Deep Reinforcement Learning book | Author Manning
<https://www.manning.com/books/grokking-deep-reinforcement-learning>
 • Authored a book on deep reinforcement learning.
 • Wrote all text, and created all figures to ensure challenging concepts were introduced in an approachable way.

Deep Reinforcement Learning SOTA algorithms | Engineer Manning
www.github.com/mimoralea/gdrl
 • Implemented from scratch reusable code for a wide variety of reinforcement learning algorithms, and data analysis tasks.
 • Used PyTorch for implementing deep reinforcement learning methods, such as DQN, PER, A3C, DDPG, SAC, PPO, GAE, and more.

Deep Reinforcement Learning AC lectures | Teacher Udacity
<https://www.udacity.com/course/deep-reinforcement-learning-nanodegree--nd893>
 • Developed the Actor-Critic lectures of the Deep Reinforcement Learning Nanodegree.
 • Created all draft animations and full scripts to explain the concepts in an intuitive way.

✉ mimoralea@gmail.com; +1 678 646 2583
 📄 LinkedIn, GitHub, StackOverflow, Twitter by **mimoralea**
 🌐 Website: <http://mimoralea.github.io/>

WORK EXPERIENCE

Lockheed Martin Littleton, CO & Full-Time Remote
 Machine Learning Engineer Sr Staff Nov 2021 – Current
 Research Engineer Staff Oct 2020 – Nov 2021
 Software Engineer Staff Sep 2019 – Oct 2020
 Software Engineer Senior Jun 2017 – Sep 2019

- Developed a framework for training deep reinforcement learning agents on military scenarios.
- Trained deep reinforcement learning agents on a variety of military scenarios and domains.
- Architected a prototype of a follow-me perception system for military applications.
- Implemented explainable AI agents, including deep reinforcement learning agents.
- Supported affordability IRAD projects by evaluating capabilities of cost-effective sensors.
- Developed perception pipeline of autonomous mining trucks.

Georgia Institute of Technology Remote
 Instructional Associate May 2017 – Current
 Head Graduate Teaching Assistant May 2016 – May 2017
 Graduate Teaching Assistant Jan 2016 – May 2016

- Taught a Reinforcement Learning and Decision Making graduate course since Spring 2016.
- Taught a Machine Learning undergraduate course in Summer 2020.
- Oversaw up to 20 Graduate Teaching Assistants per semester.

Udacity Remote
 Content Developer Jun 2018 – Dec 2018
 Project Reviewer Jun 2016 – Jun 2017
 Student Mentor Dec 2016 – Jun 2017

- Developed the Actor-Critic lectures for the Deep Reinforcement Learning Nanodegree.
- Provided actionable feedback to students around the world on self-driving car and machine learning projects.
- Recommended program design best practices in Python to improve code readability and maintainability.

Hewlett Packard Enterprise Plano, TX
 Firmware Engineer Jun 2015 – Apr 2016

- Initiated peer programming approach and mentored engineers on Java and program design principles.
- Supported release of server management software.
- Improve quality of production software by partnering with development groups of different business areas.

EXTENDED WORK EXPERIENCE

HomeCEUConnection | Senior Software Engineer Texas | 2014 – 2015
Cisco Systems | Software Engineer Georgia | 2013 – 2014
AT&T | Member of Technical Staff Texas | 2011 – 2013
DataCore | Test and Integration Florida | 2010 – 2011
ArchieMD | Test and Integration Florida | 2010
Freelancer | Web Developer Florida | 2007 – 2009
VideoNET | System Administrator Venezuela | 2003 – 2006