Russell Mendonca

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EDUCATION

Carnegie Mellon University 2020 -
PhD - Robotics Institute

University of California, Berkeley 2016 - 2020
B.S. in Electrical Engineering and Computer Science, Honors

Selected Coursework : Probabalistic Graphical Models, Computer Vision, Convex Optimization, Kinematics Dynamics & Control, Advanced Robotics, Linear Systems Theory, Deep Reinforcement Learning, Machine Learning, Optimal Control

HONORS/AWARDS

Finalist, CRA Outstanding Undergraduate Researcher Award 2019
UC Berkeley EECS Honors Degree 2020
UC Berkeley College of Engineering Honors to Date 2016 - 2020

EXPERIENCE

Ph.D. Student, Robotics Institute 2020 -
Advised by Prof. Deepak Pathak
I am interested in robots that continually improve with experience, including by autonomously exploring their environments with minimal supervision, and bootstrapping from human videos.

Undergraduate Researcher, Berkeley Artificial Intelligence Research 2017 - 2020
Advised by Prof. Sergey Levine
Worked on multi-task and meta-reinforcement learning for continuous control.

PUBLICATIONS

Structured World Models from Human Videos
Russell Mendonca*, Shikhar Bahl*, Deepak Pathak
Robotics Sciences and Systems (RSS) 2023

Efficient RL via Disentangled Environment and Agent Representations
Kevin Gmelin, Shikhar Bahl, **Russell Mendonca**, Deepak Pathak
International Conference on Machine Learning (ICML) 2023

Vision-Robotics Bridge: Robot Learning from Visual Affordances
Shikhar Bahl*, **Russell Mendonca***, Lili Chen, Unnat Jain, Deepak Pathak
Conference on Computer Vision and Pattern Recognition (CVPR) 2023

Autonomously Exploring Robotic Agents in the Real World
Russell Mendonca, Shikhar Bahl, Deepak Pathak
International Conference on Robotics and Automation (ICRA) 2023

Discovering and Achieving Goals via World Models
Russell Mendonca*, Oleh Rybkin*, Kostas Daniilidis, Danijar Hafner, Deepak Pathak
Neural Information Processing Systems (NeurIPS) 2021
Unsupervised RL & Self-supervised RL workshops at ICML 2021, Oral

Guided Meta-Policy Search
Russell Mendonca, Abhishek Gupta, Rosen Kralev, Pieter Abbeel, Sergey Levine, Chelsea Finn
Neural Information Processing Systems (NeurIPS) 2019, Spotlight talk

Meta Reinforcement Learning of Structured Exploration Strategies
Abhishek Gupta, **Russell Mendonca**, YuXuan Liu, Pieter Abbeel, Sergey Levine
Neural Information Processing Systems (NeurIPS) 2018, Spotlight talk

Meta-Reinforcement Learning Robust to Distributional Shift via
Model Identification and Experience Relabeling
Russell Mendonca*, Xinyang Geng*, Chelsea Finn, Sergey Levine
Inductive biases, invariances and generalization in RL Workshop ICML 2020

Decoupled Meta Learning with Structured Latents
Russell Mendonca, Sergey Levine, Chelsea Finn
Meta-Learning Workshop NeurIPS 2019

PROFESSIONAL SERVICE

Paper Reviewing :

- Conference on Neural Information Processing Systems (NeurIPS) 2020-23
- International Conference on Machine Learning (ICML) 2021-23
- International Conference on Learning Representations (ICLR) 2021-23
- Conference on Robot Learning (CoRL) 2022-23
- International Conference on Robotics and Automation (ICRA) 2022