

# Aravind Rajeswaran

Researcher with expertise in AI Agents,  
World Models, and Robotics  
Location: Seattle, Washington, USA

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## Employment

<b>Microsoft</b> - Principal Researcher Grounding, SFT, and RL for computer use agents (CUA)	<i>July 2025 - present</i>
<b>Meta Platforms (FAIR)</b> - Research Scientist Foundation models for Embodied AI	<i>April 2021 - April 2025</i>
<b>Google Brain</b> - Research Internship World models and reinforcement learning for robotics	<i>June 2019 - May 2020</i>
<b>OpenAI</b> - Research Internship Algorithms for dexterous robot hands and multi-agent RL	<i>June 2017 - Sep 2017</i>

## Education

<b>University of Washington Seattle</b> Ph.D. in Computer Science & Engineering Advisers: Profs. <a href="#">Sham Kakade</a> and <a href="#">Emo Todorov</a>	<i>Sep 2016 – June 2021</i>
<b>Indian Institute of Technology Madras</b> , BTech (Hons.) Advisers: Profs. <a href="#">Balaraman Ravindran</a> and <a href="#">Shankar Narasimhan</a>	<i>Aug 2011 – July 2015</i>

## Academic awards

• Best paper award at the ICRA 2022 Scaling Robot Learning Workshop	<i>2022</i>
• Best paper award finalist at the RSS 2022 Scaling Robot Learning Workshop	<i>2022</i>
• J. P. Morgan PhD Fellowship in AI	<i>2020</i>
• Facebook PhD fellowship finalist in ML	<i>2020</i>
• Best paper award at IEEE SIMPAR	<i>2018</i>
• University of Washington PhD fellowship	<i>2016</i>
• Bhagyalakshmi and Krishna Ayengar award for best undergraduate thesis.	<i>2015</i>

## Publications

- [1] *Locate 3D: Real-World Object Localization via Self-Supervised Learning in 3D*  
S. Arnaud et al. [A. Rajeswaran\\*](#), F. Meier\* (\* equal contributions)  
International Conference on Machine Learning (**ICML**) 2025. (**Spotlight**)
- [2] *OpenEQA: Embodied Question Answering in the Era of Foundation Models*  
A. Majumdar, et al. [A. Rajeswaran](#)  
Computer Vision and Pattern Recognition (**CVPR**) 2024.
- [3] *From LLMs to Actions: Latent Codes as Bridges in Hierarchical Robot Control*  
Y. Shentu, P. Wu, [A. Rajeswaran](#), P. Abbeel  
International Conference on Intelligent Robots and Systems (**IROS**) 2024.
- [4] *Modem-v2: Visuo-Motor World Models for Real-World Robot Manipulation*  
P. Lancaster, N. Hansen, [A. Rajeswaran](#), V. Kumar  
International Conference on Robotics and Automation (**ICRA**) 2024.

- [5] *Robohive: A Unified Framework for Robot Learning*  
V. Kumar, R. Shah, G. Zhou, V. Moens, V. Caggiano, A. Gupta, A. Rajeswaran  
Advances in Neural Information Processing Systems (**NeurIPS**) 2023.
- [6] *Where are we in the search for an Artificial Visual Cortex for Embodied Intelligence?*  
A. Majumdar, et al., A. Rajeswaran\*, F. Meier\*  
Advances in Neural Information Processing Systems (**NeurIPS**) 2023.
- [7] *Masked Trajectory Models for Prediction, Representation, and Control*  
P. Wu, A. Majumdar, K. Stone, Y. Lin, I. Mordatch, P. Abbeel, A. Rajeswaran  
International Conference on Machine Learning (**ICML**), 2023
- [8] *On Pre-Training for Visuo-Motor Control: Revisiting a Learning-from-Scratch Baseline*  
N. Hansen, Z. Yuan, Y. Ze, T. Mu, A. Rajeswaran, H. Su, H. Xu, X. Wang  
International Conference on Machine Learning (**ICML**), 2023
- [9] *MoDem: Accelerating Visual Model-Based Reinforcement Learning with Demonstrations*  
N. Hansen, Y. Lin, H. Su, X. Wang, V. Kumar, A. Rajeswaran  
International Conference on Learning Representations (**ICLR**) 2023.
- [10] *Real World Offline Reinforcement Learning with Realistic Data Source*  
G. Zhou, L. Ke, S. Srinivasa, A. Gupta, A. Rajeswaran, V. Kumar  
International Conference on Robotics and Automation (**ICRA**) 2023.
- [11] *R3M: A Universal Visual Representation for Robot Manipulation*  
S. Nair, A. Rajeswaran, V. Kumar, C. Finn, A. Gupta  
ICRA 2022 Scaling Robot Learning Workshop (**Best Paper Award**)  
Conference on Robot Learning (**CoRL**), 2022.
- [12] *The (Un)Surprising Effectiveness of Pre-Trained Vision Models for Control*  
A. Rajeswaran\*, S. Parisi\*, S. Purushwalkam, A. Gupta  
International Conference on Machine Learning (**ICML**), 2022. (**Long Oral**)
- [13] *CIC: Contrastive Intrinsic Control for Unsupervised Skill Discovery*  
M. Laskin, H. Liu, X.B. Peng, D. Yarats, A. Rajeswaran, P. Abbeel  
Advances in Neural Information Processing Systems (**NeurIPS**) 2022.
- [14] *Can Foundation Models Perform Zero-Shot Task Specification For Robot Manipulation?*  
Y. Cui, S. Niekum, A. Gupta, V. Kumar, A. Rajeswaran  
RSS 2022 Scaling Robot Learning Workshop. (**Best Paper Award Finalist**)  
Learning for Dynamics and Control (**L4DC**), 2022.
- [15] *Decision Transformer: Reinforcement Learning via Sequence Modeling*  
L. Chen\*, K. Lu\*, A. Rajeswaran, K. Lee, A. Grover, M. Laskin,  
P. Abbeel, A. Srinivas, I. Mordatch  
Advances in Neural Information Processing Systems (**NeurIPS**), 2021.
- [16] *Visual Adversarial Imitation Learning using Variational Models*  
R. Rafailov, T. Yu, A. Rajeswaran, C. Finn  
Advances in Neural Information Processing Systems (**NeurIPS**), 2021.
- [17] *COMBO: Conservative Offline Model-Based Policy Optimization*  
T. Yu\*, A. Kumar\*, R. Rafailov, A. Rajeswaran, S. Levine, C. Finn  
Advances in Neural Information Processing Systems (**NeurIPS**), 2021.
- [18] *Reinforcement Learning with Latent Flow*  
W. Shang\*, X. Wang\*, A. Srinivas, A. Rajeswaran, Y. Gao, P. Abbeel, M. Laskin  
Advances in Neural Information Processing Systems (**NeurIPS**), 2021.

- [19] *Behavioral Priors & Dynamics Models: Improving Performance and Domain Transfer in Offline RL*  
C. Cang, A. Rajeswaran, P. Abbeel, M. Laskin  
Pre-print 2021, *arXiv: 2106.09119*
- [20] *Offline Reinforcement Learning from Images with Latent Space Models*  
R. Rafailov\*, T. Yu\*, A. Rajeswaran, C. Finn  
Learning for Dynamics and Control (**L4DC**), 2021.
- [21] *MOReL: Model-Based Offline Reinforcement Learning*  
R. Kidambi\*, A. Rajeswaran\*, P. Netrapalli, T. Joachims  
Advances in Neural Information Processing Systems (**NeurIPS**), 2020.
- [22] *A Game Theoretic Framework for Model Based Reinforcement Learning*  
A. Rajeswaran, I. Mordatch, V. Kumar  
International Conference on Machine Learning (**ICML**), 2020.
- [23] *Lyceum: An efficient and scalable ecosystem for robot learning.*  
C. Summers, K. Lowrey, A. Rajeswaran, S. Srinivasa, E. Todorov  
Learning for Dynamics and Control (**L4DC**), 2020.
- [24] *Meta-Learning with Implicit Gradients.*  
A. Rajeswaran\*, C. Finn\*, S. Kakade, S. Levine  
Advances in Neural Information Processing Systems (**NeurIPS**), 2019.
- [25] *Online Meta-Learning.*  
C. Finn\*, A. Rajeswaran\*, S. Kakade, S. Levine  
International Conference on Machine Learning (**ICML**), 2019.
- [26] *Plan Online, Learn Offline: Efficient Learning and Exploration via Model-Based Control.*  
K. Lowrey\*, A. Rajeswaran\*, S. Kakade, E. Todorov, I. Mordatch  
International Conference on Learning Representations (**ICLR**), 2019.
- [27] *Dexterous Manipulation with Deep Reinforcement Learning: Efficient, General, and Low Cost.*  
H. Zhu, A. Gupta, A. Rajeswaran, S. Levine, V. Kumar  
International Conference on Robotics and Automation (**ICRA**), 2019.
- [28] *Reinforcement learning for non-prehensile manipulation: Transfer from simulation to physical system.*  
K. Lowrey, S. Koley, J. Dao, A. Rajeswaran, E. Todorov,  
IEEE SIMPAR, 2018 (**Best Paper Award**)
- [29] *Variance Reduction for Policy Gradient Using Action-Dependent Factorized Baselines.*  
C. Wu, A. Rajeswaran, Y. Duan, V. Kumar, A. Bayen, S. Kakade, I. Mordatch, P. Abbeel  
International Conference on Learning Representations (**ICLR**), 2018. (**Full Oral**)
- [30] *Divide-and-Conquer Reinforcement Learning.*  
D. Ghosh, A. Singh, A. Rajeswaran, V. Kumar, S. Levine  
International Conference on Learning Representations (**ICLR**), 2018.
- [31] *Learning complex dexterous manipulation with deep reinforcement learning and demonstrations.*  
A. Rajeswaran\*, V. Kumar\*, A. Gupta, G. Vezzani, J. Schulman, E. Todorov, S. Levine  
Proceedings of Robotics: Science and Systems (**RSS**), 2018.
- [32] *Towards generalization and simplicity in continuous control.*  
A. Rajeswaran, K. Lowrey, E. Todorov, S. Kakade  
Advances in Neural Information Processing Systems (**NIPS**), 2017.
- [33] *EPOpt: Learning robust neural network policies using model ensembles.*  
A. Rajeswaran, S. Ghotra, B. Ravindran, S. Levine  
International Conference on Learning Representations (**ICLR**), 2017.

- [34] *Identifying Topology of Power Distribution Networks Based on Smart Meter Data.*  
S. Jayadev, N. Bhatt, R. Pasumathy, A. Rajeswaran  
IEEE Transactions on Smart Grid, 2017.
- [35] *A Graph Partitioning Approach for Leak Detection in Water Distribution Networks.*  
A. Rajeswaran, S. Narasimhan, S. Narasimhan  
Computers & Chemical Engineering, 2017.

## Mentoring

### Interns & Residents

- Arjun Majumdar (PhD at GeorgiaTech)
- Anurag Ajay (PhD at MIT)
- Philipp Wu (PhD at UC Berkeley)
- Shikhar Bahl (PhD at CMU)
- Nicklas Hansen (PhD at UCSD)
- Mandi Zhao (PhD at Columbia)
- Suraj Nair (PhD at Stanford)
- Allan Zhou (PhD at Stanford)
- Liyiming Ke (PhD at UW Seattle)

- Yuchen Cui (PhD at UT Austin)

### University Students

- Gaoyue Zhou (CMU MS → NYU PhD)
- Rafael Rafailov (Stanford MS → Stanford PhD)
- Kevin Lu (UC Berkeley BS → Stanford PhD)
- Catherine Cang (UC Berkeley BS → Plaid)
- Ben Evans (UW BS/MS → NYU PhD)
- Divye Jain (UW BS/MS → Google SWE)
- Sarvjeet Ghotra (IIT-M → MILA PhD)

## Professional Service and Teaching

### Course Instructor and TA

- Fully designed and **taught** a special topics course at UW on deep RL for robotics. [\[course website\]](#)
- Teaching assistant for advanced graduate level machine learning courses at UW.

### Workshops Organized

- Pretraining for Robot Learning ([website](#)), CoRL 2022.
- 3rd Offline RL workshop: Offline RL as a “Launchpad” ([website](#)), NeurIPS 2022.
- Object Representations for Learning and Reasoning ([website](#)), NeurIPS 2020.
- Generative Modeling and Model-Based Reasoning for Robotics and AI ([website](#)), ICML 2019.

### Reviewing and Program Committee

- NeurIPS (2018, 2019, 2020, 2021, 2022, 2024, 2025)
- ICML (2018, 2019, 2020, 2021, 2023)
- ICLR (2019, 2020, 2021)
- CoRL (2019, 2020, 2021, 2023)