Jun Yamada
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EDUCATION

University of Oxford· Oxford, United Kingdom **10/2021 ~ Present**
DPhil Engineering Science
The Applied AI Lab (A2I), Supervisor: Professor Ingmar Posner

University of Southern California· Los Angeles, United States **10/2019 ~ 10/2021**
Visiting scholar at Cognitive Learning for Vision and Robotics (CLVR) lab,
Supervisor: Professor Joseph J. Lim

University College London· London, United Kingdom **09/2018 ~ 09/2019**
MSc Data Science and Machine Learning in the Department of Computer Science
Distinction Honor

Keio University · Tokyo, Japan **04/2014 – 03/2018**
B.Eng. in Administration Engineering (computer science, applied mathematics, and statistics)

KTH Royal Institute of Technology · Stockholm, Sweden **08/2016 – 07/2017**
Exchange student, School of Computer Science

CONFERENCE PAPERS

[C8] **J Yamada**, J Collins, I Posner, "Efficient Skill Acquisition for Industrial Insertion Tasks in Obstructed Environments", *Learning for Dynamics & Control Conference (L4DC)* , 2024.

[C7] **J Yamada**, M Rigter, J Collins, I Posner, "TWIST: Teacher-Student World Model Distillation for Sim-to-Real Transfer", *International Conference on Robotics and Automation (ICRA)*, 2024.

[C6] M Kobayashi*, **J Yamada***, M Hamaya, K Tanaka, "LfDT: Learning Dual-Arm Manipulation from Demonstration Translated from Human and Robotic Arm", *IEEE-RAS International Conference on Humanoid Robotics,* 2023

[C5] AL Mitchell, OP Jones, **J Yamada**, W Merkt, I Havoutis, I Posner, "From Primates to Robots: Emerging Oscillatory Latent-Space Dynamics for Sensorimotor Control", *Conference on Cognitive Computational Neuroscience (CNN),* 2023

[C4] **J Yamada***, C Hung*, J Collins, I Havoutis, I Posner, "Leveraging Scene Embeddings for Gradient-Based Motion Planning in Latent Space", *International Conference on Robotics and Automation (ICRA)*, 2023.

[C3] **J Yamada**, K Pertsch, A Gunjal, JJ Lim, "Task-Induced Representation Learning", *International Conference on Learning Representation (ICLR)*, 2022.

[C2] **J Yamada***, Y Lee*, G Salhotra, K Pertsch, M Pflueger, GS Sukhatme, JJ Lim, P Englert, "Motion Planner Augmented Reinforcement Learning for Robot Manipulation in Obstructed Environments", *Conference on Robot Learning (CoRL)*, 2020.

[C1] **J Yamada**, J Shawe-Taylor, Z Fountas, "Evolution of a Complex Predator-Prey Ecosystem on Large-Scale Multi-Agent Deep Reinforcement Learning", *International Joint Conference on Neural Network (IJCNN),* 2020.

JOURNAL PAPERS

[J3] M Rigter, **J Yamada**, I Posner, "World Models via Policy-Guided Trajectory Diffusion", *Transaction of Machine Learning Research (TMLR), 2024*

[J2] O Parker Jones, A L Mitchell, **J Yamada**, W Merkt, M Geisert, I Havoutis, I Posner, "Oscillating latent dynamics in robot systems during walking and reaching", *Scientific Reports, 2024*

[J1] J Collins*, M Robson*, **J Yamada***, M Sridharan, K Janik, I Posner, "RAMP: A Benchmark for Evaluating Robotic Assembly Manipulation and Planning", *Robotics and Automation Letters (RA-L),* 2023

TECHNICAL PAPERS

[T1] **J Yamada**, A L Mitchell, J Collins, I Posner, "COMBO-Grasp: Learning Constraint-Based Manipulation for Bimanual Occluded Grasping", *arXiv Preprint arXiv: 2502.08054*

[T2] **J Yamada**, Shaohong Zhong, J Collins, I Posner, "D-Cubed: Latent Diffusion Trajectory Optimisation for Dexterous Deformable Manipulation", *arXiv Preprint arXiv: 2403.12861*

PROFESSIONAL AND RESEARCH EXPERIENCE

NVIDIA - Seattle Robotics Lab · United States **07/2024 – 10/2024**
Research Intern supervised by Dr. Balakumar Sundaralingam, Dr. Ajay Mandlekar, Dr. Adithya Murali, and Dr. Yashraj Narang

OMRON SINIC X, Inc. · Tokyo, Japan **03/2021 – 09/2021**
Research Intern with Dr. Kazutoshi Tanaka and Dr. Masashi Hamaya

University of Southern California · , United States **10/2019 – 10/2021**
Visiting Researcher with *Professor* Joseph J. Lim

Grid, Inc. · Tokyo, Japan **08/2017 – 08/2018**
Machine Learning Engineer

HONOURS AND AWARDS

- Best Poster Award at The 4th UK Manipulation Workshop
- Scholarship: Learning Real-World Collaborative Assembly Tasks Through Observation, Action and Interaction

ACADEMIC SERVICE

- Workshop Organiser, ICRA 2025 - "Beyond Pick and Place — Unifying Learning-Based and Model-Based Approaches for Contact-Rich Manipulation"
- International Conference on Robotics and Automation (ICRA), 2023, 2024, 2025
- International Conference on Intelligent Robotics and Systems (IROS), 2023.
- International Conference on Ubiquitous Robots (UR), 2023
- Asian Conference on Machine Learning (ACML), Workshop on Machine Learning for Mobile Robot Vision and Control (MRVC), 2021.

TEACHING SERVICE

- B20 Machine Learning, Department of Engineering Science, University of Oxford

PRESS COVERGAGE

- An open-source benchmark to evaluate the manipulation and planning skills of assembly robots, by Ingrid Fadelli, *Tech Explore,*