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# https://junjungoal.github.io

## RESEARCH INTERESTS

Robot Learning, Representation Learning, Computer Vision

#### **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

 $10/2019 \sim 10/2021$ 

• Visiting scholar at Cognitive Learning for Vision and Robotics (CLVR) lab, Supervisor: Professor Joseph J. Lim

# University College London: London, United Kingdom

 $09/2018 \sim 09/2019$ 

- 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

#### **PUBLICATIONS**

- J Yamada, M Rigter, J Collins, I Posner, "TWIST: Teacher-Student World Model Distillation for Sim-to-Real Transfer", under review at ICRA 2024
- J Yamada, J Collins, I Posner, "Efficient Skill Acquisition for Industrial Insertion Tasks in Obstructed Environments", under review at RA-L
- 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
- 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
- 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
- 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.
- J Yamada, K Pertsch, A Gunjal, JJ Lim, "Task-Induced Representation Learning", International Conference on Learning Representation (ICLR), 2022.
- 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.

• 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.

#### PROFESSIONAL EXPERIENCE

## **OMRON SINIC X, Inc.** · Tokyo, Japan

03/2021 - 09/2021

Research Intern with Dr. Kazutoshi Tanaka and Dr. Masashi Hamaya

• Research in imitation learning for bimanual manipulation (IEEE Humanoid Robotics, 2023)

#### **University of Southern California** · , United States

10/2019 - 10/2021

Visiting Researcher with Professor Joseph J. Lim

• Research in "Motion Planner Augmented Reinforcement Learning for Robot Manipulation in Obstructed Environments" (CoRL 2020) and "Task-Induced Representation Learning" (ICLR 2022)

SE4, Inc. · Tokyo, Japan

09/2019 - 10/2019

Research Intern with Dr. Hirokatsu Kataoka and Dr. Shunsuke Saito

• Research in computer graphics

Grid, Inc. · Tokyo, Japan

08/2017 - 08/2018

Machine Learning Engineer

KitchHike, Inc. · Tokyo, Japan

04/2016 - 08/2016

Software Engineer Intern

WealthNavi, Inc. · Tokyo, Japan

04/2015 - 08/2015

Software Engineer Intern

**Div, Inc.** · Tokyo, Japan *Software Engineer Intern* 

09/2014 - 04/2016

### HONOURS AND AWARDS

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

#### REVIEWING SERVICE

- International Conference on I Robotics and Automation (ICRA), 2024
- International Conference on Intelligent Robotics and Systems (IROS), 2023.
- International Conference on Ubiquitous Robots (UR), 2023
- International Conference on Robotics and Automation (ICRA), 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*,