

SITE HU

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EDUCATION

- University of Osaka**, Systems Innovation, *Ph.D* 2021.10 - 2025.09
Johns Hopkins University, Mechanical Engineering, *M.S.* 2017.09 - 2019.05
Shanghai Jiao Tong University, Mechanical Engineering, *B.S.* 2013.09 - 2017.07
- **Minor**: Japanese
 - **GPA**: 3.77/4.3 (4/54, top 10%)

RESEARCH INTEREST

Explainable Autonomous Robot: Human-Robot Interaction, World Model, Interpretability
Robot Manipulation: Reinforcement Learning, Imitation Learning, Diffusion Policy

WORK EXPERIENCE

- University of Osaka** (Osaka, Japan), Project Researcher 2025.10 - Present
- Yoshikawa Laboratory, Graduate School of Engineering Science
 - Engaged in research and development activities for *Moonshot Goal 1 R&D Projects: The Realization of an Avatar-Symbiotic Society where Everyone Can Perform Active Roles without Constraint*(PM: Prof. Hiroshi Ishiguro)
- Huawei Technologies Co., Ltd.** (Dongguan, China), Single-Board Hardware Engineer / Optical Technology Engineer 2019.09 - 2021.09
- Access Network Hardware Optical Access Technology Development Group
 - (2020.04 - 2021.04) Designed a new Combo OLT miniaturized optical device with a small size, high coupling efficiency, and high structural reliability
 - (2019.12 - 2021.09) Enhanced existing automated testing systems and developed new testing frameworks for optical modules using Python, Tcl, and Ruby, covering over 80% of testing scenarios and improving efficiency by 50%
 - (2019.09 - 2020.09) Established a prototyping laboratory for optical components, accelerating the prototyping process and supporting the rapid validation of over 10 new products
 - (2019.09 - 2020.09) Designed and implemented a cost-reduction solution for GPON ONU BOSA, achieving approximately 10% cost savings, which was successfully adopted in the next-generation GPON products; This work was recognized with the Excellence Award at the 2020 Huawei Songshan Lake Research Institute Innovation Competition

RESEARCH EXPERIENCE

- University of Osaka**, Yoshikawa Laboratory 2025.10 - Present
- *Project Researcher*
 - Integrated foundation models with imitation learning to improve the performance and interpretability of autonomous robot policies
- University of Osaka**, Nagai Laboratory / Yoshikawa Laboratory 2021.10 - 2025.10
- *Ph.D. Student, Advisors: Prof. Takayuki Nagai / Prof. Yuichiro Yoshikawa*
 - Proposed a framework that leverages language instructions and visual inputs to enable autonomous multi-task execution without expert demonstrations, enhancing generalization and interpretability
 - Developed explanation generation methods for autonomous robots based on world models, enhancing both policy performance and interpretability

- *M.S. Student, Advisor: Prof. Dennice Gayme*
- Designed and implemented posture control for a self-balancing robot and a LiDAR-based SLAM system, and investigated multi-system coordination and control with robotic manipulator

PUBLICATIONS

TARAD: Task-Aware Robot Affordance-centric Diffusion Policy Learned from LLM-Generated Demonstrations *RA-L 2025.08*

- **Authors:** Site Hu, Takayuki Nagai, Takato Horii
- To be presented at ICRA 2026

Adaptive and Transparent Decision-Making in Autonomous Robots Through Graph-Structured World Models *Advanced Robotics 2024.10*

- **Authors:** Site Hu, Takato Horii, Takayuki Nagai

Explainable autonomous robots in continuous state space based on graph-structured world model *Advanced Robotics 2023.07*

- **Authors:** Site Hu, Takayuki Nagai
- Presented at ICRA 2023 Workshop on ‘Avatar-Symbiotic Society’

HONORS

Excellence Award (Huawei Songshan Lake Research Institute Innovation Competition)	2020
Future Star Award (Huawei)	2020
Future Star Award (Huawei)	2019
Outstanding Project Award (8th SJTU Innovation Program)	2014

SKILLS

Programming: Python, C/C++, MATLAB, PyTorch, Docker, TypeScript, Next.js, Ruby, Tcl
Engineering: ABAQUS, SolidWorks, Siemens NX, AutoCAD
Other: Valid driver’s licenses in China and Japan

LANGUAGES

Chinese: Native
English: Proficient, (TOEFL-iBT: 99/120, 2016; GRE: 318/340, 2016; CET-6, 2014)
Japanese: Proficient, (JLPT N1: 133/180, 2016)