

# Jason Lee

📍 Seattle, WA 📩 jason328@uw.edu 🌐 jasonlee328.github.io 🇹🇼 Taiwan Citizen

## Education

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### University of Washington

M.S. in Electrical and Computer Engineering (GPA:3.95/4.00)

**Advisors:** Dieter Fox and Ranjay Krishna

Seattle, WA

Sept 2024 – March 2026

### Boston University

B.A. in Computer Science (GPA:3.80/4.00)

*Cum Laude*

Boston, WA

Sept 2020 – May 2024

## Publications

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### Molmoact: Action Reasoning Models that can Reason in Space

**Jason Lee**, Jiafei Duan, Haoquan Fang, Yuquan Deng, Shuo Liu, Boyang Li, Bohan Fang, Jieyu Zhang, Yi Ru Wang, Sangho Lee, Winson Han, Wilbert Pumacay, Angelica Wu, Rose Hendrix, Karen Farley, Eli VanderBilt, Ali Farhadi, Dieter Fox, Ranjay Krishna

*Best Paper Award Nominee, Data @ CoRL 2025*

*Best Paper Award Runner-up, Rational Robotics @ CoRL 2025*

Under Review

### BranchOut: Capturing Realistic Multimodality in Autonomous Driving Decisions

Hee Jae Kim, Zekai Yin, Lei Lai, **Jason Lee**, Eshed Ohn-Bar

CoRL 2025

### PointArena: Probing Multimodal Grounding Through Language-Guided Pointing

Long Cheng, Jiafei Duan, Yi Ru Wang, Haoquan Fang, Boyang Li, Yushan Huang, Elvis Wang, Ainaz Eftekhar, **Jason Lee**, Wentao Yuan, Rose Hendrix, Noah A Smith, Fei Xia, Dieter Fox, Ranjay Krishna

Under Review

## Research Experience

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### Allen Institute for Artificial Intelligence

Research Intern, *Robotics Team* (Advisor: Prof. Dieter Fox)

Seattle, WA

Aug 2025 – Present

- Developing large-scale dataset/collection pipeline in IsaacSim + benchmarks for the Manipulation of Toy Blocks.
- Co-leading a procedural generation method of demonstration data based on TAMP and low-level RL policies.
- Leading efforts to incorporate force-sensing to the procedural datagen pipeline and distilled policies.

Student Collaborator, *PRIOR Team* (Advisor: Prof. Ranjay Krishna)

Mar 2025 - Present

- Led the development of MolmoAct, Ai2's First Robotics Foundation Model for Manipulation.
- Led the Action Reasoning data curation for pre-training, post-training and MolmoAct Dataset.
- Developed simulation evaluation infrastructure for pre-training and post-training.
- Led the real-world evaluations and simulation evaluations.

### Reasoning, AI, Vision Lab @ UW

Research Assistant (Advisor: Prof. Ranjay Krishna)

Seattle, WA

June 2024 – Present

- Originated and proposed the idea of MolmoAct, before it became an Ai2 Company Project.
- Early experimentation with robot data mixture that evolved into MolmoAct's final pre-training data mixture.
- Developed the early data, model, and simulation evaluation infrastructure that laid the foundation for MolmoAct.

### H2X Lab @ Boston University

Research Assistant (Advisor: Prof. Eshed Ohn-Bar)

Boston, MA

Sep 2023 - May 2024

- Designed and implemented BranchOut's teleoperation system in simulation with NeRFStudio to collect driving data in scenes reconstructed from NuScenes.

## Work Experience

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### Taiwan Semiconductor Manufacturing Company

Intern at R&D Department

Hsinchu, Taiwan

Jun 2022 - Aug 2022

- Trained CNN to detect wafer scratches during manufacturing process to improve repair and failure detection systems

### Taiwan Semiconductor Manufacturing Company

Intern at Manufacturing Department

Tainan, Taiwan

Jun 2021 - Aug 2021

- Implemented Genetic Algorithm to improve manufacturing efficiency addressing lot and equipment discrepancies

## Professional Services

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2025           **Reviewer for ICRA 2026**

2025           **Reviewer for Synthetic Data for Computer Vision @ CVPR 2025**

2025           **Workshop Organizer for 3D Vision Language Models for Robotic Manipulation @ CVPR 2025**

2021–2023      **Teaching Assistant at Boston University** (CS210 Computer Systems)

## Presentation & Talks

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Sep 2025       **National Cheng Kung University (Host: Prof. Jyh-Ching Juang)**

Sep 2025       **National Taiwan University (Host: Prof. Frank Wang)**

Aug 2025       **Genesis AI (Host: Johnson Wang)**

Aug 2025       **Google Deepmind (Host: Ted Xiao)**

Aug 2025       **UW SyFI lab (Host: Prof. Baris Kasikci)**

Jun 2025       **Allen Institute for AI (Host: Prof. Ali Farhadi)**

## Honors & Awards

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2025           **Best Paper Runner-up: Rational Robotics @ CoRL 2025**

2025           **Best Paper Nominee: Data @ CoRL 2025**

2020–2024      **Dean's List, Boston University**

## Selected Media Coverage

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*The Robot Report* – "Ai2 says new MolmoAct 7B model brings AI into the physical world" [link](#)

*GeekWire* – "Ai2 unveils MolmoAct: Open-source robotics system reasons in 3D and adjusts on the fly" [link](#)

*Buisness Wire* – "Ai2 Unveils MolmoAct, a New Class of AI Model That Reasons in 3D Space" [link](#)

*Venture Beat* – "Ai2's MolmoAct model 'thinks in 3D' to challenge Nvidia and Google in robotics AI" [link](#)

*Silicone Angle* – "Ai2 releases an open AI model that allows robots to 'plan' movements in 3D space" [link](#)

*State of AI Report 2025* – [link](#)

## References

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### Dieter Fox

Professor at the University of Washington, Seattle

Senior Research Director of Robotics at the Allen Institute for AI

### Ranjay Krishna

Assistant Professor at the University of Washington, Seattle

Research Director of Computer Vision at the Allen Institute for AI

### Florian Shkurti

Assistant Professor at the University of Toronto

Visiting Research Scientist at Allen Institute for AI