

# JAYDEN TEOH

[Email](#) ◇ [GitHub](#) ◇ [LinkedIn](#) ◇ [Google Scholar](#) ◇ [Website](#)

## PROFESSIONAL EXPERIENCE

### Microsoft

New York

Research Intern

05/2025 – Present

- Supervised by John Langford under the AI Frontiers group.
- Leading “Next-Latent Prediction Transformers Learn Compact World Models”, a project where I proposed a novel algorithm for improving the world-modeling and planning capabilities of transformer language models.

### CARE.ai Labs

Singapore

AI Researcher

05/2023 – Present

- Led research projects on deep reinforcement learning under the supervision of Prof. Pradeep Varakantham.
- Published first author publications accepted at ICLR 2025, NeurIPS 2024 (oral), and AAMAS 2024.

### London Initiative for Safe AI (LISA)

London

Research Assistant

06/2024 – 08/2024

- Research focusses on developing evaluations and elicitation mechanisms for AI sandbagging.
- Co-authored a publication accepted at ICML 2025.

### Continental

Singapore

Machine Learning Engineer Intern

04/2024 – 07/2024

- Developed a novel diffusion-based generative framework for creating tire tread patterns optimized for varying weather conditions.

## EDUCATION

### Singapore Management University

Singapore

Computer Science, Major in Artificial Intelligence

2023 – 2026

- Ranked 1st out of 154 students in cohort every year.
- GPA >4.0/4.0. Summa Cum Laude, Dean’s list for all semesters.

## SELECTED PUBLICATIONS

### Next-Latent Prediction Transformers Learn Compact World Models

Jayden Teoh, Manan Tomar, Kwangjun Ahn, Edward S. Hu, Pratyusha Sharma, Riashat Islam, Alex Lamb, John Langford

[View](#)

- Microsoft Research Preprint, work in progress.

### On Generalization Across Environments In Multi-Objective Reinforcement Learning

Jayden Teoh, Pradeep Varakantham, Peter Vamplew

[View](#)

- ICLR 2025

### The Elicitation Game: Evaluating Capability Elicitation Techniques

Felix Hofstätter\*, Teun van der Weij\*, Jayden Teoh\*, Henning Bartsch, Francis Rhys Ward

[View](#)

- ICML 2025

### Improving Environment Novelty Quantification for Effective Unsupervised Environment Design

Jayden Teoh, Wenjun Li, Pradeep Varakantham

[View](#)

- NeurIPS 2024 (Oral, Top 0.4%)

### Unifying Regret and State-Action Space Coverage for Effective Unsupervised Environment Design

Jayden Teoh, Wenjun Li, Pradeep Varakantham

[View](#)

- AAMAS 2024 (Extended Abstract)

### The Belief State Transformer

Edward S. Hu, Kwangjun Ahn, Qinghua Liu, Haoran Xu, Manan Tomar, Ada Langford, Jayden Teoh, Bryon Xu, David Yan, Dinesh Jayaraman, Alex Lamb, John Langford

[View](#)

- Contributed post-publication

## ACADEMIC SERVICE

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### Reviewer

2025 – Present

- ICLR 2025
- NeurIPS 2025 Datasets & Benchmarks Track
- World Modeling Workshop (WMW) 2026

## INVITED TALKS

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### NeurIPS 2024 Oral

2024

- Selected as one of top 72 papers (out of 15,671 submissions) for oral presentation: “Improving Environment Novelty Quantification for Effective Unsupervised Environment Design”. [Online Access](#).

### Talk @ Microsoft Research AI Frontiers

2025

- Presented “Next-Latent Prediction Transformers Learn Compact World Models”, a recent Microsoft Research project led by me.

### Talk @ Riot Games Singapore

2025

- Presented my research “Next-Latent Prediction Transformers Learn Compact World Models” to the Riot Games research team.

## TEACHING EXPERIENCE

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### Programs Lead, SMU A.I.

2024 – 2026

- I broaden access to education in A.I. within the school by teaching workshops, leading reading groups for ML research papers, and hosting talks by external industry experts.

### Programs Lead, SMU .Hack

2023 – 2024

- I organized and taught technical workshops for undergraduates on topics such as Python programming for freshmen, LeetCode problem-solving, MERN stack web development, etc.

### Volunteer Mentor, Project Heartcode

2023 – 2024

- I taught financially-underprivileged secondary school students basic web development skills such as HTML, CSS, and Javascript, and guided them towards presenting their own web application.

## AWARDS AND SCHOLARSHIPS

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### SMU School of Computing & Information Systems Achievements Scholarship

2023 – 2026

- University scholarship for students with strong academic results and character record.

### Outstanding First Year Student Award

2024

- Top student in Year 1 of CS undergrad cohort.

### GovTech Award for Top Second Year Computing & Information Systems Student

2025

- Top student in Year 2 of CS undergrad cohort.

## TECHNICAL SKILLS

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- **Programming Languages:** Python, Go, SQL, Javascript, Java, C
- **ML/AI:** Mathematical Statistics, PyTorch, Reinforcement Learning, Natural Language Processing, Generative AI