Yuina Iseki

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EDUCATION

STANFORD UNIVERSITY **Palo Alto, CA**

Master of Science, Computer Science (Artificial Intelligence track) *Expected June 2027*

Coursework: Deep Learning, Human-Computer Interaction, Cross-platform Mobile App Development

GRINNELL COLLEGE **Grinnell, IA**

Bachelor of Arts, Computer Science (Cumulative GPA: 3.95/4.00, Major GPA: 3.96/4.00) *May 2025*

Honors: Phi Beta Kappa, Dean's List, Andrew Hsieh Career Exploration Grant, O.H. Snyder Scholarship

Coursework: Artificial Intelligence, Computer Vision, Software Design, Analysis of Algorithms, Automata

TECHNICAL EXPERIENCE

Research Intern | University of Tokyo Matsuo-Iwasawa Lab *June – Sept 2025*

- Developed automated LLM evaluation pipeline for RAG chatbots with Python and transformer models.
- Implemented custom metrics to predict pedagogical effectiveness prior to classroom deployment.
- Designed evaluation framework combining semantic similarity scores and pedagogical criteria.

Research Assistant | Grinnell College ELBICA Lab *May 2023 – Dec 2024*

- Implemented cognitively inspired AI in a multi-agent environment using neural network and PyTorch.
- Designed original framework of distributed representations to model human multi-modal reasoning.
- Analyzed how AI models' learning can aid our understanding of human reasoning and decision-making.

Software Engineer Intern | ExaWizards *Jun – Aug 2024*

- Developed an AI chatbot web app for an EdTech event to teach elementary school children about AI.
- Built interactive UI with HTML, JavaScript, and Live2D to enhance user experience.

PROJECTS

Constrained Generative Model for Origami Design (In Progress) | PyTorch autoencoder architecture that generates valid origami design variations by learning parametric representations and enforcing geometric folding constraints to ensure foldability.

EduRAG (https://github.com/yuinaiseki/EduRAG-eval) | Llama-based vanilla Retrieval-Augmented Generation (RAG) framework with a focus on educational chatbot applications and evaluation metrics.

Poisson Image Editing (https://github.com/yuinaiseki/PoissonCloning) | MATLAB interpolation tool that seamlessly integrates an object image into a background image by using Poisson blending techniques.

MAvis Project (https://github.com/yuinaiseki/MAvis) | Python multi-agent AI robot simulator in dynamic environments. Implements and tests different search algorithms and heuristics, such as A* and greedy algorithms.

TEACHING & LEADERSHIP

AI Tinkery Lab Mentor | Stanford Accelerator for Learning *Sept 2025 - Present*

- Lead workshops and 1:1 consultation to support students applying generative AI across disciplines.

Teaching Assistant | Grinnell College Computer Science *Aug 2023 – May 2025*

- Mentored 60+ students in object-oriented programming and computer architecture through weekly sessions and project assessments.

President | International Student Organization *Mar 2024 – May 2025*

- Led a team of 8 to organize campus events for 400+ students; collaborated with 20+ organizations.

SKILLS

Languages: English (native), Japanese (native), French (advanced)

Programming/Tools: Java, C, C#, Python, Kotlin, HTML, JavaScript, MATLAB, Unity, GitHub

AI/ML Frameworks: PyTorch, TensorFlow, scikit-learn, NumPy, Pandas, Langchain