

Max Kamachee

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Education

University of Wisconsin-Madison

Madison, WI

Expected Graduation: Fall 2026

Majors: Computer Science, Data Science

GPA: 3.7

Courses: Operating Systems, Algorithms, Data Structures, Probability

Professional Experience

Machine Alignment Transparency & Security (MATS)

Berkeley, CA

Summer 2026 Fellow - Mentored by Stephen Casper

June 2026-Present

- Working on preventing dual-use catastrophic misuse via technical governance and improving model tamper resistance

University of Chicago XLab

Remote

Affiliate Researcher

October 2025-March 2026

- Generated transferable adversarial examples across vision model families (CNNs, ViTs, YOLO) to expose autonomous weapon system vulnerabilities
- Built adversarial training pipelines and combined synthetic/genuine drone-angle image dataset for military camouflage detection

Quantum Intelligence Group

Remote

Software Engineering Intern

February 2025-July 2025

- Achieved 50x system performance improvement by porting solutions into Elixir for concurrency gains and system fault tolerance
- Built enterprise RAG service processing 1000+ documents in under 5 minutes with sub-3-second query response times using Azure Kernel Memory framework with advanced performance optimizations including semantic caching, smart chunking, and semantic ranking
- Developed comprehensive observability stack for a multi-agent application using OpenTelemetry and Langfuse to trace 100+ API calls and agent communications, reducing debugging time by 60%

UW-Madison Department of Computer Science

Madison, WI

Undergraduate Researcher - advised by Professor Sharon Li

November 2024-February 2025

- Advanced LLM hallucination detection research resulting in a published paper in a peer-reviewed journal by conducting an empirical investigation of uncertainty-based methods at the entity level (**See Publications**)

Publications

- Min-Hsuan Yeh, **Max Kamachee**, Seongheon Park, and Yixuan Li. "HalluEntity: Benchmarking and Understanding Entity-Level Hallucination Detection", published in *Transactions on Machine Learning Research 2025 (TMLR)*, presented at *International Conference on Learning Representations 2026 (ICLR)*, <https://openreview.net/pdf?id=494k7e9R5D>
- Max Kamachee**, Stephen Casper, et al., "Video Deepfake Abuse: How Company Choices Predictably Shape Misuse Patterns", <https://dx.doi.org/10.2139/ssrn.5829303>

Projects & Involvement

Litigation Matters

Remote

Expert Consultant

June 2026-Present

- Retained as expert consultant in multiple lawsuits concerning AI product safety and foreseeable misuse of generative image models drawing on co-authored research on how company design choices shape deepfake abuse patterns.

Horizon Institute for Public Service Career Accelerator

Washington D.C./ Remote

Selected Member

December 2025-Present

- Selected for a competitive AI policy career accelerator preparing candidates for positions in AI policy

Anthropic

Madison, WI

Claude Campus Ambassador

September 2025-May 2026

- Official Anthropic representative promoting Claude and leading the Claude Builder Club for 100+ students

Advanced AI Demonstration with the Center for AI Policy

Washington D.C

Member

December 2024-February 2025

- Built multi-agent system from scratch demonstrating security vulnerabilities in AI systems through agent-to-agent jailbreak transfers
- Presented to congressional staffers at Advanced AI Exhibition

Skills and Interests

Programming: Python (NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch, Einops), Java, SQL, REST API Development (Postman), Git, C++, Linux, R, Elixir, React, ROS

Languages: English (Fluent), Russian (Fluent), French (Advanced)

Soft Skills: Public Speaking, Leadership, Project Management, Bilingual Communication, Research

Interests: Water Polo, Mixed Martial Arts(MMA), Improv, Entrepreneurship, Traveling, Reading