

AMANDA TAN, Ph.D.

AI ADOPTION | RESEARCH PARTNERSHIPS | AI ENABLEMENT | TECHNICAL STRATEGY

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PROFESSIONAL SUMMARY

AI adoption leader with 12+ years helping research institutions evaluate, adopt, and operationalize emerging technologies. Combines a Ph.D. research background with hands-on AI product development, translating complex research workflows into practical AI solutions that accelerate scientific discovery and institutional capability.

Builder as well as educator: designs AI-native learning experiences and hands-on agentic AI workshops that help researchers understand how AI-assisted development can accelerate scientific workflows. Trusted advisor to principal investigators, research computing organizations, cloud providers, federal agencies, and executive leadership, with a track record of moving organizations from experimentation to sustained adoption.

CORE EXPERTISE

AI Adoption Strategy • Research Partnerships • Research Computing • Technical Program Leadership • Executive Stakeholder Engagement • Strategic Partnerships • Customer Discovery • AI Learning Experiences • Cloud Computing • Vendor Management

PROFESSIONAL EXPERIENCE

Associate Director, Research Development | Internet2

2025 – Present

- Lead AI strategy, institutional engagement, and research development for a national consortium representing 300+ higher education institutions.
- Lead a national portfolio of AI adoption initiatives spanning executive engagement, faculty programs, workshops, hackathons, webinars, digital learning experiences, and agentic AI demonstrations that help researchers move from experimentation to practical implementation.
- Created and continue to lead the open-source Agentic AI Workshop (github.com/ms-cc-org/AGENTIC-AI-Workshop), a hands-on curriculum introducing researchers and educators to agentic AI, tool use, multi-step reasoning, and AI-assisted software development.
- Partner with principal investigators, CIOs, research computing leaders, faculty, and executive sponsors to identify AI opportunities and develop practical adoption strategies including AI ethics and cybersecurity.
- Direct cross-functional initiatives spanning engineering, curriculum development, communications, cloud providers, vendors, and external partners.
- Develop strategic partnerships with NSF, the National AI Research Resource (NAIRR), AWS, Microsoft, NVIDIA, Oracle, and national research organizations.
- Invited speaker on AI adoption, research computing, and institutional strategy at NAIRR events and other national forums.

Program Manager, Cloud and Research Computing Learning | Internet2

2021 – 2025

- Directed AI and cloud adoption programs supporting 40+ research institutions annually.
- Grew annual participation by 30% across a portfolio of 72+ partner organizations.
- Designed digital learning experiences using AWS Academy and Canvas (Instructure), integrating GitHub, Jupyter notebooks, assessments, and cloud laboratories.
- Partnered with AWS, Microsoft, NVIDIA, and Oracle to integrate GPU computing and generative AI into research workflows.

Senior Data Science Fellow | University of Washington eScience Institute

2019 – 2021

- Co-PI on NASA- and NSF-funded grants to advance cloud-native computational science and reproducible research practices.
- Managed graduate researchers and cross-institutional collaborations.
- Designed faculty engagement programs supporting adoption of cloud computing and research cyberinfrastructure.

Lead Cloud Developer | University of Washington

2016 – 2019

- Served as technical lead for cloud-native platforms supporting global climate, water, and resilience research, including the \$3M NSF-funded Ocean Observatories Initiative.
- Delivered regional workshops and technical consulting supporting cloud adoption.

SELECTED IMPACT

- Led AI adoption initiatives supporting a national consortium representing 300+ higher education institutions.
- Designed and delivered 20+ national AI and cloud computing programs.
- Created and published the open-source Agentic AI Workshop curriculum, used to introduce researchers and educators to agentic AI and AI-assisted development.
- Established strategic partnerships with AWS, Microsoft, NVIDIA, Oracle, NSF, ACCESS, and national research organizations.

TECHNICAL EXPERTISE

Artificial Intelligence: ChatGPT, OpenAI Codex, LLMs, Agentic AI, RAG

Cloud & Infrastructure: AWS, Azure, Jetstream2, Docker, GPU Computing, HPC

Developer & Learning Platforms: GitHub, Jupyter, AWS Academy, Canvas (Instructure), Python

EDUCATION

- Ph.D., Civil & Environmental Engineering — University of Washington
- M.S., Civil & Environmental Engineering — University of Washington
- B.Eng., Civil & Environmental Engineering — Universitas Tenaga Nasional