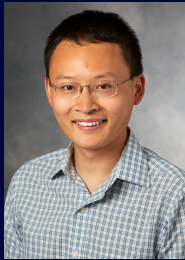


DAC WorkGroup on Scientific AI Agents

University of Notre Dame



James Zou
Stanford University

AI agents to accelerate scientific discoveries

AI agents - large language models equipped with tools and reasoning capabilities - are emerging as powerful research enablers. This talk will explore how agentic AI can accelerate scientific discoveries. I'll first introduce the Virtual Lab - a collaborative team of AI scientist agents conducting in silico research meetings to tackle open-ended research projects. As an example application, the Virtual Lab designed new nanobody binders to recent Covid variants that we experimentally validated. Then I will introduce Paper2Agent, a framework to automatically convert passive research papers into interactive AI agents. Finally I will discuss learnings from Agents4Science, the first conference where the authors and reviewers are primarily AI systems.

Mon, Apr. 6, 2026

3:30 – 4:30 PM

On Zoom

<https://notredame.zoom.us/j/3795256579>