香港浸會大學
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DEPARTMENT OF
COMPUTER SCIENCE
計算機科學系

DEPARTMENT OF COMPUTER SCIENCE
SEMINAR 2026 SERIES

FRONTIER SYSTEMS FOR SCIENTIFIC DISCOVERY AT SCALE

MR. NICO PELLERITI
Ph.D. Student
Technical University of Berlin

DATE & TIME

21 JUL 2026 (Tue)
5:00 PM - 6:00 PM

VENUE

DLB637, 6/F, DAVID C. LAM BUILDING, SHAW CAMPUS

ABSTRACT

What happens when AI systems move beyond answering questions and begin pursuing open scientific problems? This talk explores frontier agentic systems that can formulate hypotheses, write and execute code, run experiments, evaluate results, and iteratively improve both their strategies and the research environments in which they operate. Drawing on our work on The Agentic Researcher, evolutionary coding agents, and ongoing efforts to tackle open problems, particularly in mathematics, I will examine both the promise and the current limitations of these systems. Mathematics provides a particularly useful testbed because progress can often be verified precisely, but the underlying ideas extend to machine learning, algorithm design, and computational science. The central question is no longer simply whether AI can assist researchers, but whether it can become a reliable engine for open-ended scientific discovery.

SPEAKER'S BIOGRAPHY

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