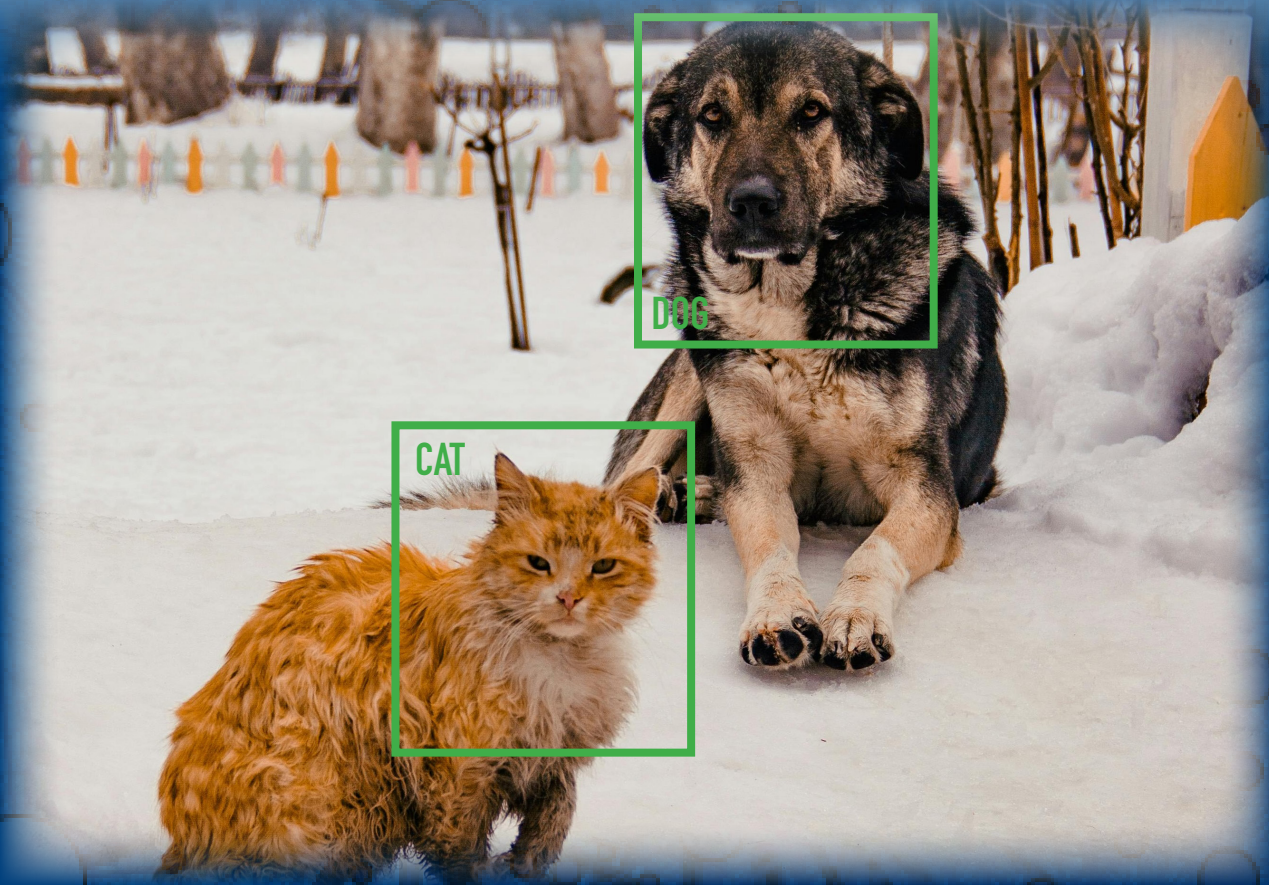# MATH ENCOUNTERS

UNDER *the* HOOD:
the MATHEMATICS *of* AI

Speaker: Rebecca Willett

Wednesday, June 4, 2025

Afternoon Presentation
4:00 pm ET (New York)

Evening Presentation
7:00 pm ET (New York)

National Museum of Mathematics
225 Fifth Avenue
New York City

Investing in applied artificial intelligence (AI) without understanding the underlying mathematical foundations is like investing in biotech without understanding biology. Join University of Chicago Professor Rebecca Willett and learn how mathematics is having a tremendous impact on AI and machine learning. In this engaging, hands-on presentation, Dr. Willett will highlight the core mathematical ideas underlying AI and their impacts on applications, including an exploration of the basics of learning, how Netflix decides what movie to recommend next, how ChatGPT writes stories, how AI helps predict weather more accurately, and how math and statistics help protect fairness and privacy in AI systems. Dr. Willett is the Worah Family Professor of Statistics and Computer Science in the Wallman Society of Fellows at the University of Chicago.

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