

# PUBLIC LECTURES IN MATHEMATICS



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**Thursday Sept. 26, 2024  
4:15 -5:15 p.m. Nord 410**

Reception to follow in the lobby

## *How AI detects cats in photos using elementary school math*

Modern artificial intelligence (AI) can produce text and images so realistic that it's sometimes hard to distinguish them from human creations. How does it do that? Surprisingly, AI is powered by elementary school math, such as addition and multiplication. In this talk we take a look at very simple models of human nerve cells and see how they can be combined to build up higher-level AI understanding: first telling summer apart from winter, and then detecting cats in photos. Also, we use Jane Austin's texts for creating a DIY AI chatbot.



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