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Type: Talk

## Low-rank tensor and matrix methods and machine learning

Thursday, September 4, 2025 4:00 PM (30 minutes)

In this talk, I will describe several recent results that use low-rank approximation and machine learning together. There are two stories that I will discuss:

- 1. Using low-rank approximation to speedup machine learning applications (hybrid models)
- 2. Using machine learning algorithms to compute certain classes of low-rank decomposition algorithms (including a AlphaEvolve and AlphaTensor papers that use different variants of RL and ML for compute tensor decompositions for difficult tensors).

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