Due to recent breakthroughs, machine learning, especially deep learning, is pervasively serving areas such as autonomous driving, game playing, and virtual assistants. Recently however, significant security and privacy concerns have been raised in deploying deep learning algorithms.

In his talk, Yuan will provide an overview of security and privacy issues in deep learning, then focus on his recent research on a data-agnostic model stealing attack against deep learning. He will conclude with a discussion of some future research directions to address security and privacy concerns in deep learning and potential countermeasures.

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