



# VIDY Reading Group

## Uniform Convergence

**Longfeng Wu**  
**CS, Virginia Tech**  
**April 17th, 2024**



**COMPUTER SCIENCE**  
VIRGINIA TECH.

# Uniform Convergence

- ❑ How does the complexity of the hypothesis space impact the learning process?  
For example, the trade-offs between choosing a simple versus a complex hypothesis space.
- ❑ What's the limitation of uniform convergence sample complexity?
- ❑ How do the theoretical insights about the generalization error influence our practical approach evaluating machine learning models?