

# PULKIT GOPALANI

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## EDUCATION

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### University of Michigan, Ann Arbor

Aug '23 – Present

Doctor of Philosophy (PhD), Computer Science & Engineering

Working on theoretical foundations of deep learning.

Advisor: [Prof. Wei Hu](#)

### Indian Institute of Technology, Kanpur

Jul '18 – Jul '23

Bachelor of Technology, *Double Major* (5-year program)

Grade: **9.4/10**

Electrical Engineering, Computer Science & Engineering

*Honors* – Academic Excellence Award (top 10% grade) for 2018, '18–19, '19–20, '21–22; graduated with Distinction.

## PUBLICATIONS

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- [1] **Global Convergence of SGD On Two Layer Neural Nets.** [\[Paper\]](#)  
Pulkit Gopalani, Anirbit Mukherjee.  
*DeepMath 2022* (Extended abstract).
- [2] **Capacity Bounds for the DeepONet method of solving Differential Equations.** [\[Paper\]](#)  
Pulkit Gopalani, Sayar Karmakar, Anirbit Mukherjee.  
*DeepMath 2022* (Extended abstract).
- [3] **Investigating Overparameterization while solving the Pendulum with DeepONets.** [\[Paper\]](#)  
Pulkit Gopalani, Anirbit Mukherjee.  
*NeurIPS 2021 Workshop on The Symbiosis of Deep Learning and Differential Equations* (DLDE).

## SKILLS

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Programming Languages	Python, C/C++
Frameworks & Libraries	PyTorch, JAX
Utilities	Git, $\text{\LaTeX}$

## RELEVANT COURSEWORK

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Topics in Learning Theory	Topics in Stochastic Processes	Convex Optimization
Information Theory	Introduction to Machine Learning	Intro to Reinforcement Learning
Probability & Statistics	Linear Algebra & ODEs	Multivariate Calculus

## VOLUNTEERING

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- **Course Mentor**, *Introduction to Machine Learning* (CS771), Aug–Nov '22, IIT Kanpur.
- **Reviewer**, *Symbiosis of Deep Learning and Differential Equations* (NeurIPS 2021 Workshop).