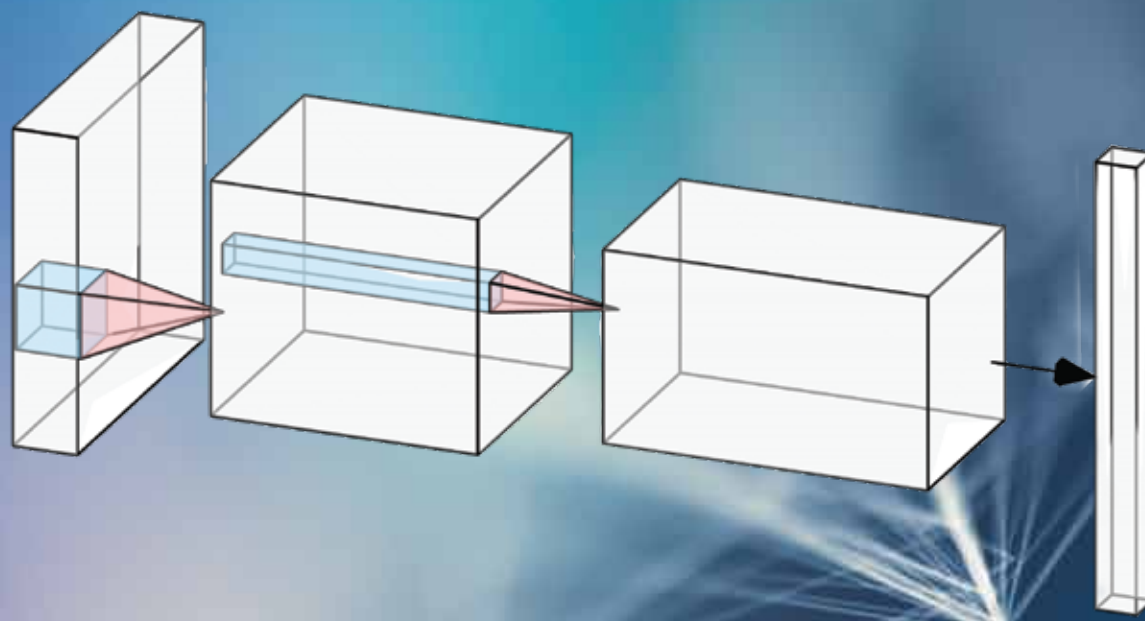# Statistical Theory of Deep Neural Network Models

November 7 - 9, 2024

About the Workshop

As deep learning has achieved breakthrough performance in a variety of application domains, a significant effort has been made to understand theoretical foundations of Deep Neural Network (DNN) models. Statisticians have devoted to understanding for example why deep neural networks models outperform classic nonparametric estimates and providing theoretical underpinning of DNN models from the lens of statistical theory. This workshop aims to bring together researchers in the field to discuss the pecent progress in statistical theory and foundations of DNN models, and chart possible future research directions.

Speakers

Arash Amini, *UCLA*
Peter Bartlett, *Berkeley*
Ismael Castillo, *Sorbonne*
Minwoo Chae, *Postech*
David Dunson, *Duke*
Jian Huang, *PolyU*
Yongdai Kim, *SNU*
Sophie Langer, *UT*
Wenjing Liao, *Georgia Tech*

Lu Lu, *Yale*
Rong Tang, *HKUST*
Matus Telgarsky, *NYU*
Jane-Ling Wang, *UC Davis*
Yixin Wang, *Michigan*
Yuting Wei, *U Penn*
Tong Zhang, *UIUC*
Yiqiao Zhong, *Wisconsin*

Organizers

Lizhen Lin, *Maryland*
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