

## PAPER LIST

### November 6: Training Deep Neural Networks

[Peri-LN: Revisiting Normalization Layer in the Transformer Architecture](#)

Jeonghoon Kim, Byeongchan Lee, Cheonbok Park, Yeontaek Oh, Beomjun Kim, Taehwan Yoo, Seongjin Shin, Dongyoon Han, Jinwoo Shin, Kang Min Yoo. ICML 2025.

### November 13 Convolutional Neural Networks

[ShiftwiseConv: Small Convolutional Kernel with Large Kernel Effect](#)

Dachong Li, Li Li, Zhuangzhuang Chen, Jianqiang Li. CVPR 2025.

<https://github.com/lidc54/shift-wiseConv>

### November 20: Understanding and Visualizing CNNs

[Direct Ascent Synthesis: Revealing Hidden Generative Capabilities in Discriminative Models](#)

Stanislav Fort, Jonathan Whitaker. ArXiv Preprint ArXiv:2502.07753v1, February 2025.

[https://github.com/stanislavfort/Direct\\_Ascent\\_Synthesis](https://github.com/stanislavfort/Direct_Ascent_Synthesis)

### November 27: Recurrent Neural Networks

[Vision-LSTM: xLSTM as Generic Vision Backbone](#)

Benedikt Alkin, Maximilian Beck, Korbinian Pöppel, Sepp Hochreiter, Johannes Brandstetter. ICLR 2025.

<https://github.com/nx-ai/vision-lstm>

### December 4: Attention and Transformers

[An Image is Worth More Than 16x16 Patches: Exploring Transformers on Individual Pixels](#)

Duy Kien Nguyen, Mido Assran, Unnat Jain, Martin R. Oswald, Cees G. M. Snoek, Xinlei Chen. ICLR 2025.

<https://github.com/insitro/ChannelViT>

### December 11: Graph Neural Networks

[Improving the Effective Receptive Field of Message-Passing Neural Networks](#)

Shahaf E. Finder, Ron Shapira Weber, Moshe Eliasof, Oren Freifeld, Eran Treister. ICML 2025.

<https://github.com/BGU-CS-VIL/IM-MPNN>

### December 18: *Project Progress Presentations*

### December 25: Language Model Pretraining

[BERTs are Generative In-Context Learners](#)

David Samuel. NeurIPS 2024.

<https://github.com/ltgoslo/bert-in-context>

### January 1: *No Classes - New Year's Day*

### January 8: Large Language Models

[SFT Memorizes, RL Generalizes: A Comparative Study of Foundation Model Post-training](#)

Tianzhe Chu, Yuexiang Zhai, Jihan Yang, Shengbang Tong, Saining Xie, Dale Schuurmans, Quoc V Le, Sergey Levine, Yi Ma. ICML 2025.

<https://github.com/LeslieTrue/SFTvsRL>