

# ML/DL for Everyone with PYTORCH

## Epilogue: What's the next?

Sung Kim <[hunkim+ml@gmail.com](mailto:hunkim+ml@gmail.com)> HKUST

Code: <https://github.com/hunkim/PyTorchZeroToAll>

Slides: <http://bit.ly/PyTorchZeroAll>



# Call for Comments

Please feel free to add comments directly on these slides.

Other slides: <http://bit.ly/PyTorchZeroAll>



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# Many more fun networks

- [Language Model \(RNN-LM\)](#)
- [Generative Adversarial Network](#)
- [Image Captioning \(CNN-RNN\)](#)
- [Deep Convolutional GAN \(DCGAN\)](#)
- [Variational Auto-Encoder](#)
- [Neural Style Transfer](#)
- NLP: <https://github.com/spro/practical-pytorch>



# Upcoming topics (TBA)

- [Wasserstein GAN](#)
- [OptNet: Differentiable Optimization as a Layer in Neural Networks](#)
- [Paying More Attention to Attention: Improving the Performance of Convolutional Neural Networks via Attention Transfer](#)
- [Wide ResNet model in PyTorch](#)
- [Task-based End-to-end Model Learning](#)
- [An End-to-End Trainable Neural Network for Image-based Sequence Recognition and Its Application to Scene Text Recognition](#)
- [Scaling the Scattering Transform: Deep Hybrid Networks](#)
- [Adversarial Generator-Encoder Network](#)
- [Conditional Similarity Networks](#)
- [Multi-style Generative Network for Real-time Transfer](#)
- [Image-to-Image Translation with Conditional Adversarial Networks](#)
- [Unpaired Image-to-Image Translation using Cycle-Consistent Adversarial Networks](#)
- [Inferring and Executing Programs for Visual Reasoning](#)
- [On the Effects of Batch and Weight Normalization in Generative Adversarial Networks](#)
- [Train longer, generalize better: closing the generalization gap in large batch training of neural networks](#)
- [Neural Message Passing for Quantum Chemistry](#)
- [DiracNets: Training Very Deep Neural Networks Without Skip-Connections](#)
- [Deal or No Deal? End-to-End Learning for Negotiation Dialogues](#)

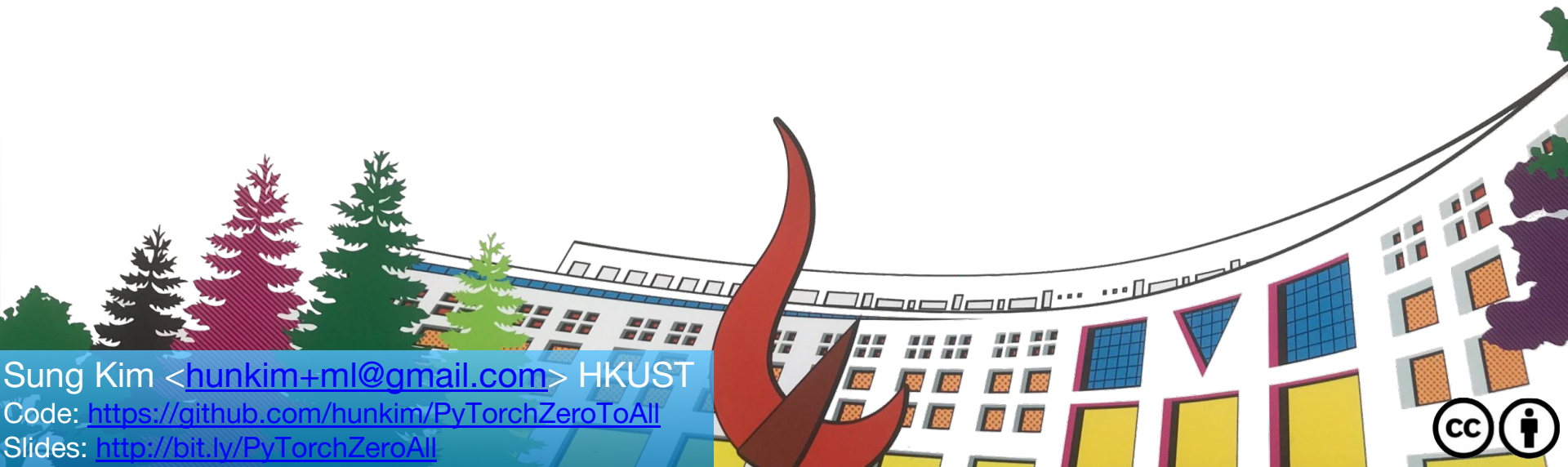
<https://github.com/ritchieng/the-incredible-pytorch>

# References

- <http://pytorch.org/>
  - <https://github.com/pytorch/examples>
  - <https://github.com/ritchieng/the-incredible-pytorch>
  - <https://github.com/yunjey/pytorch-tutorial>
  - <https://github.com/znxlwm/pytorch-generative-model-collections>
- 
- <https://www.facebook.com/groups/TensorFlowKR/> (in Korean)
  - <https://www.facebook.com/groups/PyTorchKR/> (in Korean)

# ML/DL for Everyone with PYTORCH

Will be back!



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