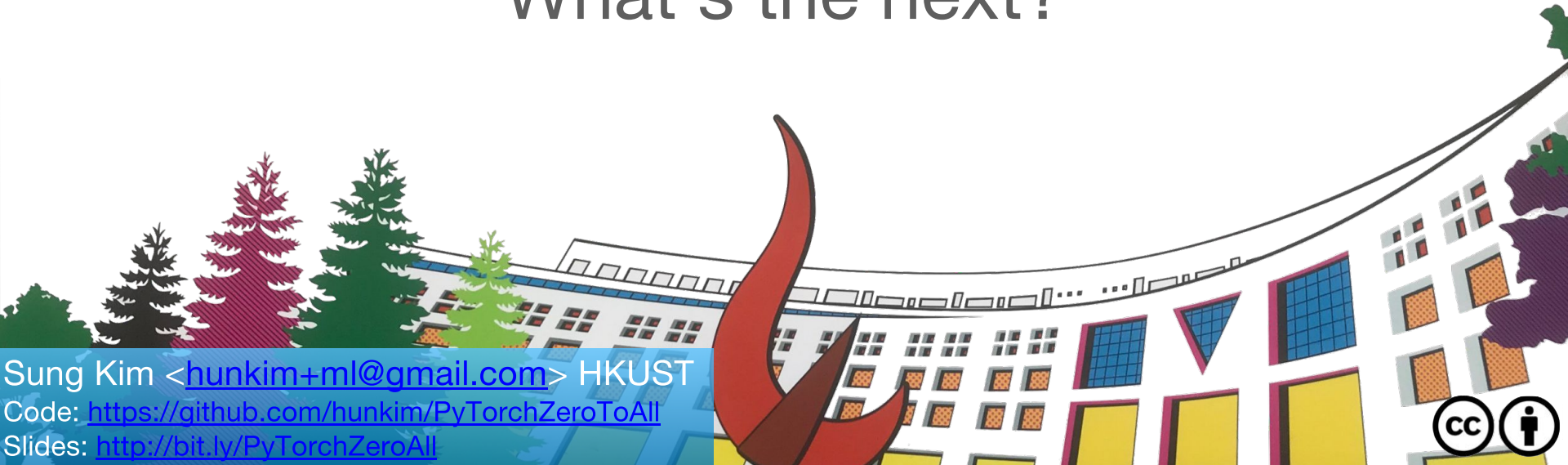
ML/DL for Everyone with PYTORCH

Epilogue:
What's the next?



Sung Kim <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

Picture from http://www.tssablog.org/archives/3280

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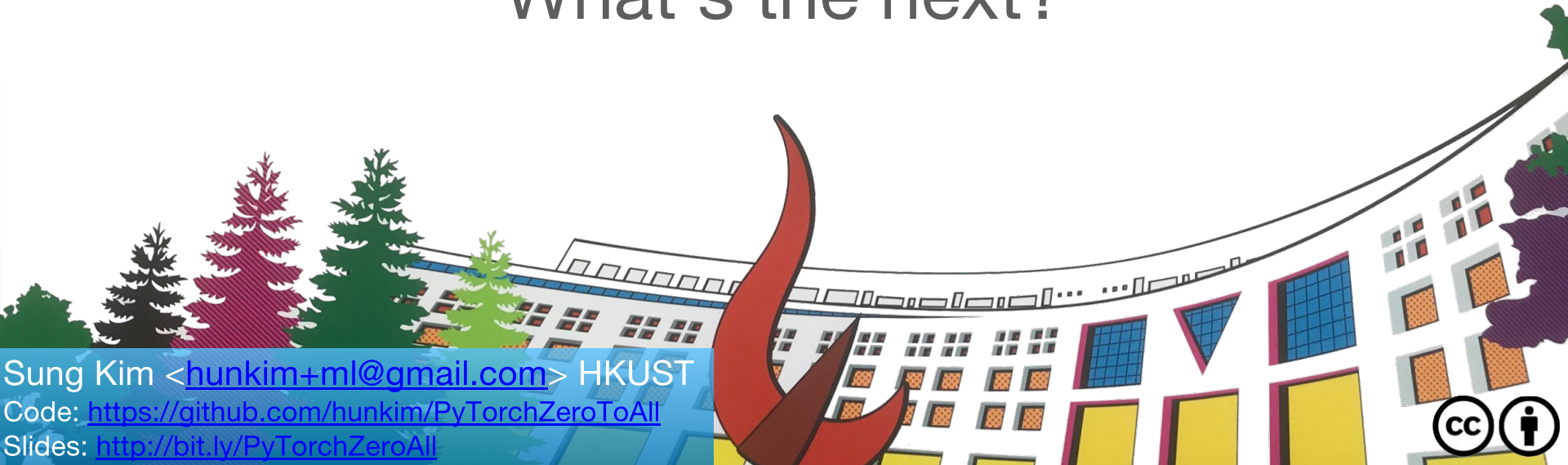

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Many more fun networks

- 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

https://github.com/yunjey/pytorch-tutorial

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)

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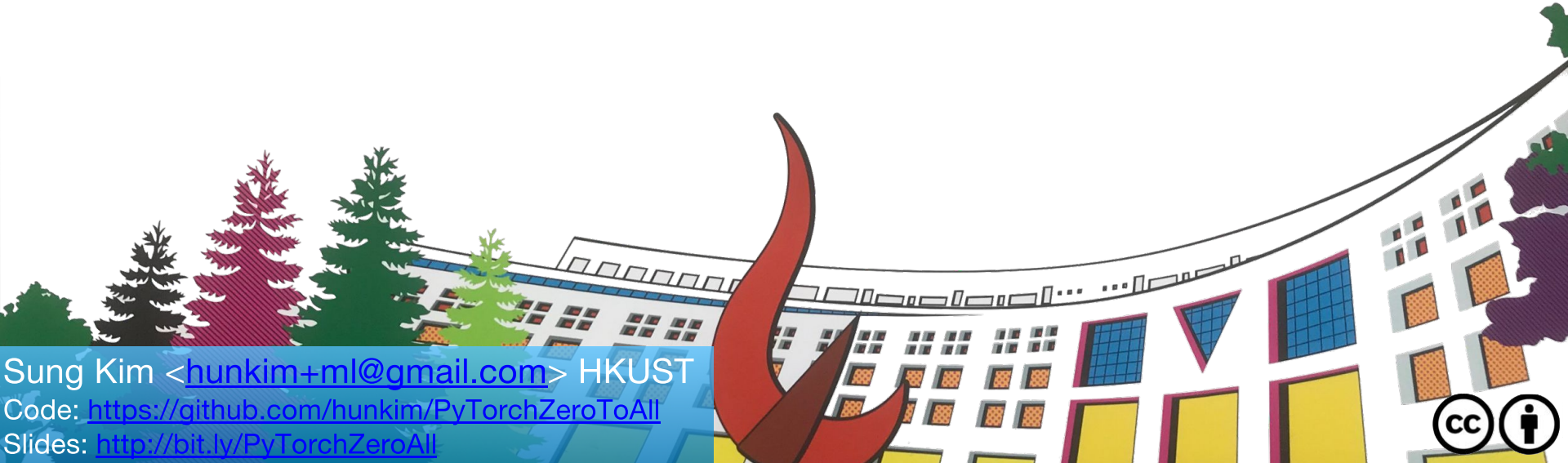
Will be back!



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