

# Yuting Yang General Exam Spring 2020

## TENTATIVE READING LIST:

### Denoising:

1. [Vogels 2018], [Denoising with Kernel Prediction and Asymmetric Loss Functions](#)
2. [Dorn 2015], [Towards Automatic Band-Limited Procedural Shaders](#)

### Image Processing + NN:

3. [Chen 2017], [Fast Image Processing with Fully-Convolutional Networks](#)
4. [Gharbi 2017], [Deep Bilateral Learning for Real-Time Image Enhancement](#)
5. [Li 2018], [Differentiable Programming for Image Processing and Deep Learning in Halide](#)  
(DSL and compiler, like ours)
6. [Thies 2019], [Deferred Neural Rendering: Image Synthesis using Neural Textures](#)
7. [Zhang 2018], [The Unreasonable Effectiveness of Deep Features as a Perceptual Metric](#)

### GANs:

8. [Wang 2018], [High-Resolution Image Synthesis and Semantic Manipulation with Conditional GANs](#)
9. [Wang 2018], [Video-to-Video Synthesis](#)

### Program Simplification:

10. [Sidiroglou 2011], [Managing Performance vs. Accuracy Trade-offs With Loop Perforation](#)
11. [Sitthi-amorn 2011], [Genetic Programming for Shader Simplification](#)

### Textbook:

12. [Goodfellow 2016], [Deep Learning](#)