

Syllabus of CS152A

September 25, 2020

- Basic linear algebra, Least square, Numerical optimization;
- Basic geometry fitting, RANSAC;
- Filters, Basics of CNNs, Back-propagation;
- Corner detection;
- Camera model, PnP pose estimation, Fundamental matrix, Panorama;
- Image classification, Bias/variance tradeoff;
- PCA, Auto-encoder;
- Optical flow, Background removal.