## ECE C143A/C243A, Spring 2023

Homework #6
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Due Friday, 09 Jun 2023, uploaded to Gradescope. Covers material up to Kalman Filter II. 100 points total.

- 1. (20 points) Reaching data and neural data Please complete hw6p1.ipynb, which could be downloaded from BruinLearn. Please print the Jupyter Notebook and attach to your HW.
- 2. (30 points) Optimal linear estimator
  Please complete hw6p2.ipynb, which could be downloaded from BruinLearn.
  Please print the Jupyter Notebook and attach to your HW.
- 3. (15 points) Wiener filter
  Please complete hw6p3.ipynb, which could be downloaded from BruinLearn.
  Please print the Jupyter Notebook and attach to your HW.
- 4. (35 points) Kalman filter Please complete hw6p4.ipynb, which could be downloaded from BruinLearn. Please print the Jupyter Notebook and attach to your HW.