245C Fall 2022: Real Analysis

Time and Place: MWF 11-11:50am, MS 6201
Instructor: Inwon Kim, ikim at math.ucla.edu
Office Hours: MW 1-2 and by appointment.
Topics covered:

$L^p$ spaces and interpolations, (basic) Fourier analysis, Distributions and Sobolev spaces, Radon measure, BV spaces and isoperimetric inequality.

Textbook:


Homework and Exams:
There will be no exam. There will be 3-4 sets of homework, due in class. While collaboration among students are encouraged, you must write up your solutions using your own words.