

# Data Analysis and Machine Learning for Real-World Decision Making

STAT 214

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## Contents

### ❖ Lecture 1

#### 1.1 Information

Instructor: - Bin Yu ([binyu@berkeley.edu](mailto:binyu@berkeley.edu))

Tu/Th 11:00am-12:30pm 20 Social Sciences Building

Office hours: Thursday 1-2pm 317 Evans

#### **Grading:**

- 45% lab assignments
  - Lab 1: Single-person project (20%)
  - Lab 2: Team project (25%)
- 10% reading assignments and selected problems from VDS book
- 2.5% peer lab review performance
- 2.5% class participation
- 5% paper presentations

- 35% final project (team project)

**GSI:**

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**Textbooks**

1. “Veridical data science: the practice of responsible data analysis and decision-making” by Bin Yu and Rebecca Barter (MIT Press, in-press) (free online version at vdsbook.com) (required)
2. Statistical models, David Freedman (Cambridge Press, 2009, 2nd Ed.) (required). (open-source pdf)
3. The elements of statistical learning, Trevor Hastie, Rob Tibshirani, Jerome Friedman (Springer, 2016, 2nd Ed.) (recommended). (open-source pdf)