## Supervised Learning: Linear Regression

## April 6, 2021

- 1 Motivation
- 2 Fitting a Line
- 3 Moving a Line Towards a Point
- 3.1 Absolute Trick
- 3.2 Square Trick
- 4 Gradient Descent
- 4.1 Types of Gradient Descent
- 5 Generalizing to Higher Dimensions
- 6 Warnings
- 7 Polynomial Regression
- 8 Regularization
- 9 Feature Scaling