# EECS 127/227A:
# Optimization Models In Engineering

## Discussion 0

*Laura Hallock & Vignesh Subramanian*

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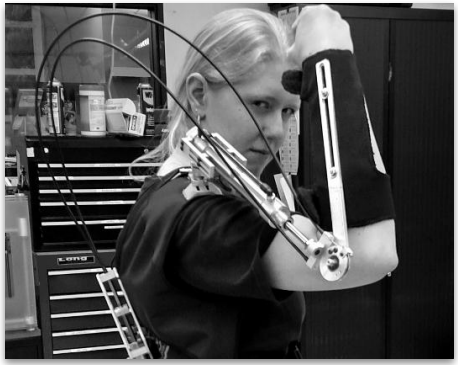
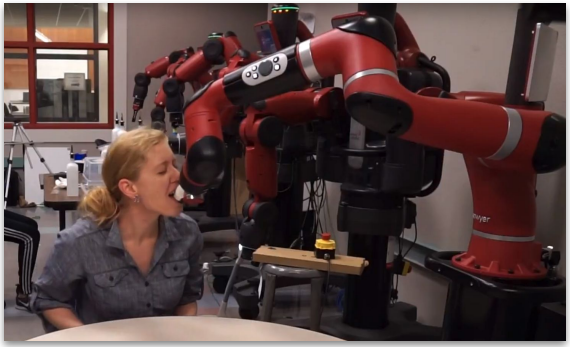
# About Us: Laura Hallock

- 5th year PhD student (EECS) with Ruzena Bajcsy
- S.B. EECS ’15 (MIT)
- Work on **human musculoskeletal modeling** for exoskeletons and assistive robots
- Former head GSI for **EECS 106A (Introduction to Robotics)**
- Took this class — and 227B — 4 (!) years ago
- Hobbies: martial arts/self defense, computational origami, hiking, climbing, skating





# **About Us**: Vignesh Subramanian

- 3rd year PhD student (EECS) with Anant Sahai
- Research Interests: application of **machine learning** to **wireless communication**, **control**
- Content/discussion GSI for this same course (127) in Spring 2019
- Worked as a **quantitative finance researcher** (2 years)
- Undergraduate from IIT Bombay in EE (2015)
- Likes: hiking, cooking, visiting places to admire nature, badminton, frisbee

# Contact Us

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# What about you?

**Reminder**:

This discussion is about you.

We're here to help you learn.

# **Today**: Intros & Linear Algebra (Review)

1. Introduce ourselves
2. Some toy problems from our experience
3. Discussion handout questions

# **Today**: Intros & Linear Algebra (Review)

1. Introduce ourselves
2. Some toy problems from our experience
3. Discussion handout questions

→ **If today is boring, you're well prepared!**

→ **If today is challenging, you have review to do!**

**Toy Problem 1**:

How do humans perform (physical) tasks?

**Toy Problem 2**:
How should I allocate my financial assets?

# Any final logistical questions?

**Sidenote**: Stick around after class if you need homework partners!