ME 599/AA 546/EE 546:
Biology-inspired robot control

Lecture 9
Sawyer B. Fuller

Goals:
- address feedback/questions
- points to include in mid-quarter updates, schedule
- Presentation and discussion of Paper 5 by Evan Schuster and Carl Svanevik

Office Hours time change

- old: Thurs 3:30-4:30

- new: Thurs 2:30-3:30

- Location: MEB321

- (updated on online syllabus)

learning objectives for the course

paper readings and presentation

- tools, methods, and approaches in academic research

- how to read a paper

term project

- experience creating a simulated world

- good software practices

- presentation skills

how to read a paper

1. read the abstract - 2-5 min

2. look through the figures - 5-10 min

3. read the introduction - 5-20 min

4. read the conclusion - 10 min

5. read the rest of the paper - 1-10 hrs

midterm project presentations Friday and Wednesday

- outline of what to include:
  - **goal(s)**: high-level.
    - example: "my vehicle will be able to alternate between different food sources that replenish at different rates using simple rules"
    - this is research, so keep your goal in mind to inform exploration, but you don't have to stick to it if a different direction seems more promising. there is value in open-ended research!
  - **objectives**: measurable outcomes
    - example: "vehicle visits each site at least twice. it will spend a longer time at the larger food source"
  - **initial results**, such as a simulation
  - **timeline** for rest of the term
- 10 min each + 2-5 min questions
- Friday, October 28:
  - 1. Sam and Nathaniel, 2. Tianqi, 3. Qiong, 4. Bryan
- Wednesday, November 2:
  - 1. Evan, 2. Siva, Joon, Liam, 3. Carl, 4. Yogesh