Human-Robot Relations
https://www.youtube.com/watch?v=h1E-FIgwugGw
Mumm & Mutlu

Physical and psychological distancing
  Reciprocity
  Compensation/equilibrium
  Attraction-mediation
  Attraction-transformation

More on proxemics during Vázquez lecture...
Gender effects: males reacted to robot gaze
Robot likeability matters

Net physical distance (Personal Space)

Net robot distance (Gaze)

Net psychological distance (Self-Disclosure)

Likeable

Unlikeable

Likeable

Unlikeable
The SantaBot Experiment
A Pilot Study of Human-Robot Interaction

Søren Tranberg, Center for Robot Technology, Danish Technological Institute
Mikael Svenstrup, Department of Electronic Systems, Aalborg University
Hans Jørgen Andersen, Department for Media Technology, Aalborg University
Thomas Bak, Department of Electronic Systems, Aalborg University
Ole B. Jensen, Department of Architecture & Design, Aalborg University
Sparrow: March of the Robot Dogs

Sparrow: March of the Robot Dogs

Embodiment of …
A memory of a prior relationship
A vision of what it should be like

Robot and Frank | Humans

Aaron Steinfeld (adapted from Illah Nourbakhsh) | CMU Robotics Institute | Grad HRI
Sparrow: March of the Robot Dogs

Behavior drift

2016 could be the first year in more than two decades with 6,000* pedestrian deaths.

*2016 estimate based on preliminary data

Source: GHSA

http://www.ghsa.org/sites/default/files/2017-03/2017ped_FINAL.pdf
Sparrow: March of the Robot Dogs

Experience Machine

Reality versus Artifice
- Deception, awareness
- Accepted suspension of disbelief: movies
Sparrow: March of the Robot Dogs

Existential considerations…

Shared experiences
Authentic choice
Euthanasia
Group Design Challenge

Robot in a Cage

Design the form and interaction story for a robot that lives in a cage, in a six to eight year-old’s bedroom:

1. What does it look like?
2. How does it interact?
3. What are its positive impacts on the child/owner/caregiver?

Then we vote!
Next Three Classes

Education
Jenn Cross

Non-verbal Communication of Robot States
Kim Baraka

CEO of Me, Inc.
Illah Nourbakhsh