

Research Topics/Questions for FYS

Regulating the development of AI

- Should governments control or regulate AI development? Is it permissible for a private company to develop its own AGI?

Alex

Narrow AI (for beating humans at games)

Josh

Developing intelligent machines

Austin?

- In what sense are the bots in video games intelligent? Conscious? [Nemesis?] Zac
- What is the difference between a brain and a computer?
- Could we develop a machine that becomes conscious on its own, through evolution?
- What different approaches are being taken right now to create a thinking AI? (Which of these seems most promising?)

The nature of intelligence

- In what ways or senses could present-day machines be considered intelligent?

Mind-Body connection/interaction

Austin?

The nature of consciousness

JT Butler

- Is consciousness a property of a kind of thing (like a mental substance) or of a physical system?

The nature of personhood

Rohan

- Is the ability to think a requirement of being a person?

AI in the legal profession

Sha'kera

AI in healthcare

Caleb, Lexy U.

- Will the increased use of AI improve or harm our healthcare system? Where will the changes occur?

AI in transportation

Lexi P.

- How close are we to self-driving vehicles that are road safe?
- What are the biggest hurdles for self-driving vehicles?
- Are self-driving vehicles worth pursuing?

Uses of AI in journalism and social media

The effects of AI on the human jobs

Sam, Pat

- What jobs are least likely to be taken over by AI?
- What would a society without work look like?
- What kind of AI might be used to supplement or replace human work? [Sam]

The effects of AI on the wealth distribution

Social AI and service robots

Sage, Michael

Use of AI in the financial sector

Cyborgs and hybrot

Braden, Jake

- What is the difference between cyborgs and hybrot?
- Which is more beneficial to human society? [Braden]

Human clones and their moral status

Connor B

Weaponized AI

Blake

- How will they be controlled and paid for? [Blake]
- Should we allow the development of weaponized AI?
- How might we best control/regulate the use of weaponized AI?
- Should weaponized AI be limited to warfare? Policing? Not used at all?

Will

- What are the advantages/disadvantages of weaponized AI?

Uses of AI in agriculture

Uses of AI in space exploration

- Should all space exploration be unmanned vehicles with AI?

AI and security

- How well can AI identify individuals?
- Can we program adequate safety-rules into AI so that it doesn't harm us?
- Can AI be programmed to be "moral"?

The ethical treatment of AI

- At what point would AI have rights against us, or we have duties towards these beings?

Consciousness in non-human animals

- How might we best understand consciousness (or detect it) in other beings?