I. Psychology as science

What makes a science?

- definition of science: intellectual, systematic endeavor
- natural, **empirical**, observable
- correlation v. causation
- determinism, non-determinism, indeterminism

Popper

- problems and methods
- principle of falsifiability
- risky predictions
- value of non scientific methods?

Theory

- conceptual system; guide scientific activity
- testability
- types of theories:
 - physical (mechanism and material) note positivism & logical positism
 - mathematical abstractive (relationships and formalisms)
 - · metaphorical and analogical
 - pitfalls
 - · general v. single domain
- Example of theory in psychology: Hullian Learning Theory (1943)
 - · formalized learning and behavior
- does psychology need a theory: Skinner v. Allport

Kuhn's description of science

- concerned with evolution of science and pointing out subjectivity of enterprise
- pre-paradigmatic → paradigm → revolution
- normal science / what would Popper say?
- "not yet disconfirmed"

- zeitgeist
- the paradigm shift... examples?

Psychology as science

- prevailing question throughout course...
- JS Mill: "Psychology as the science of elemental laws of mind"
- do we fit definitions of science?
 - · determinism: physical v. psychical
- we will see how this debate plays out in ideas and schools of thought in psychology