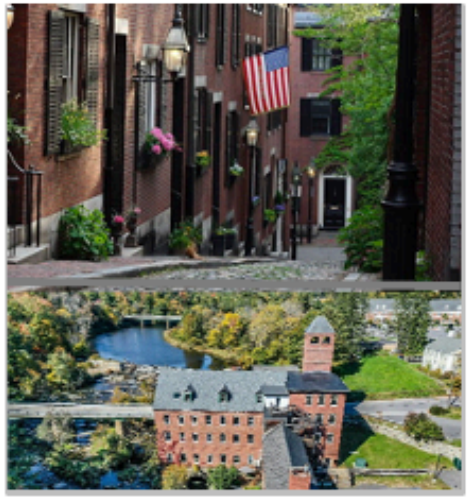
Class 1

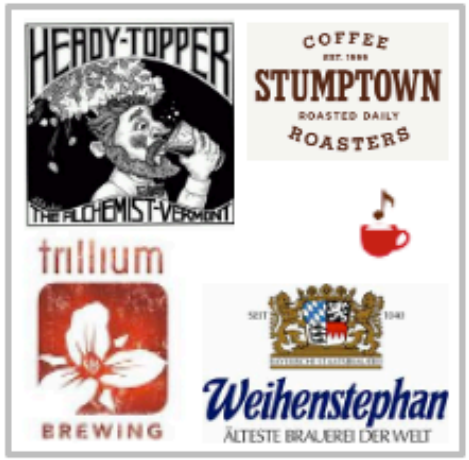
Agenda

- Introductions
  - Getting to Know Each Other
  - Syllabus Review
  - General Course Flow
  - Break
- Readings for Today
- Integration
  - Key principles
  - Some alternatives

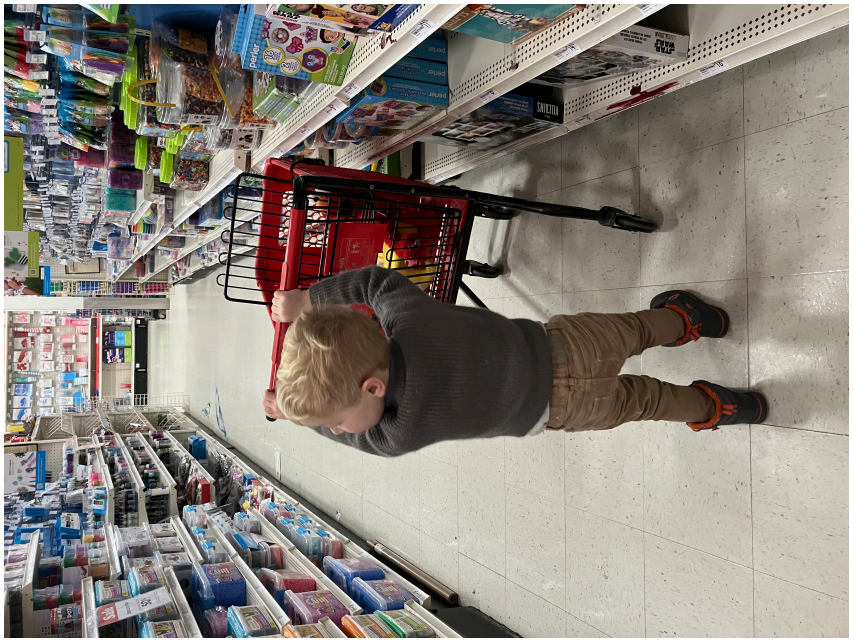
Introductions

A little about me

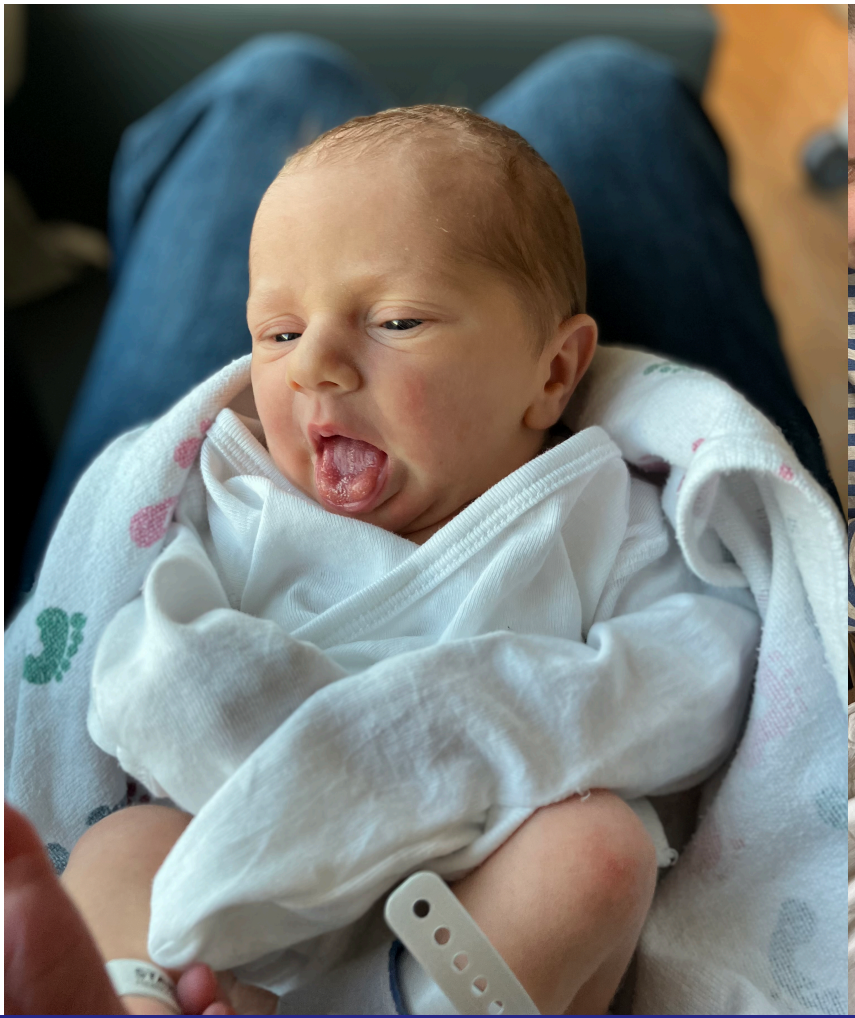


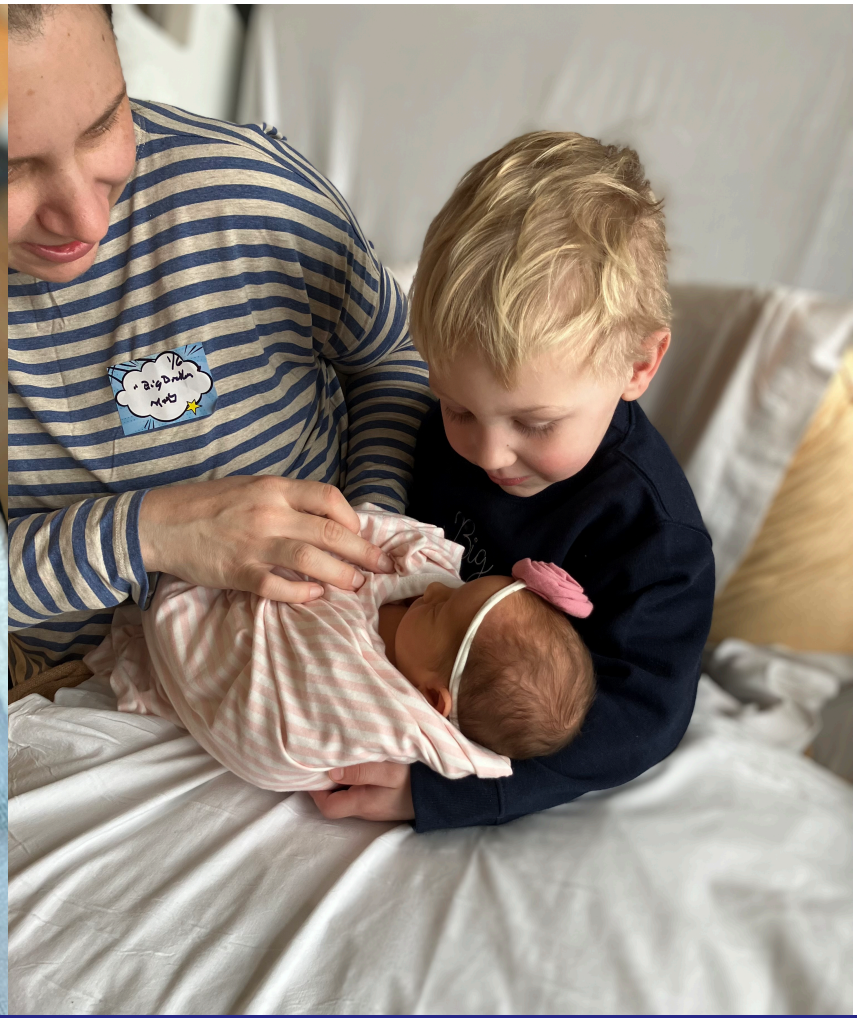


A little about me



A little about me





A little about you

Let's fill out an introductory survey:Pollev.com/drfox

Syllabus Review

- Syllabus
- Brightspace

Break

COFFEE BREAK

Readings for Today

Popper, K. R. (2002).

The Logic of Scientific Discovery. Routledge. [Ch .1]

Mantere, S., and Ketokivi, M. 2013.

Reasoning in Organization Science. Academy of Management Review, 38(1), 70-89.

Nosek, B. A. and Errington, T. M. 2020.

What is replication? PLOS Biology: 1-8.

Rynes, S. L., and Bartunek, J. M. (2017).

Evidence-Based Management: Foundations, Development, Controversies and Future. Annual Review of Organizational Psychology and Organizational Behavior, 4(1), 235-261.

Popper (2002)

Mantere and Ketokivi (2013)

4 levels of research - basic disciplines, management, applied - lit review data-driven decision making, HBR

Integration

Some key principles

- Falsifiability: Popper, K. R. (2002)
- Defensibility: Mantere, S., and Ketokivi, M. (2013)
- Replicability: Nosek, B. A. and Errington, T. M. (2020)
- Applicability: Rynes, S. L., and Bartunek, J. M. (2017)

Falsifiability

My proposal is based upon an asymmetry between verifiability and falsifiability; an asymmetry which results from the logical form of universal statements. For these are never derivable from singular statements, but can be contradicted by singular statements. - Popper (1962: 19)

Falsifiability

- Falsifiability provides a basis for abductive reasoning pure deductive reasoning is true a priori if the premises and statements are valid. We can transform our understanding of the system but generate additional truths - we may uncover them.
- We worry about the defensibility of our arguments to be able to act upon the conclusions with confidence
- But our arguments and conclusions are irrelevant if they aren't applcable to real-world problems; worries about inside baseball.
- Finally, the structure of our empirical base presumes that the research was performed in good order and that the findings are replicable within their domain of applicability. This gets to

An alternative: Bayesian reasoning and degrees of belief