

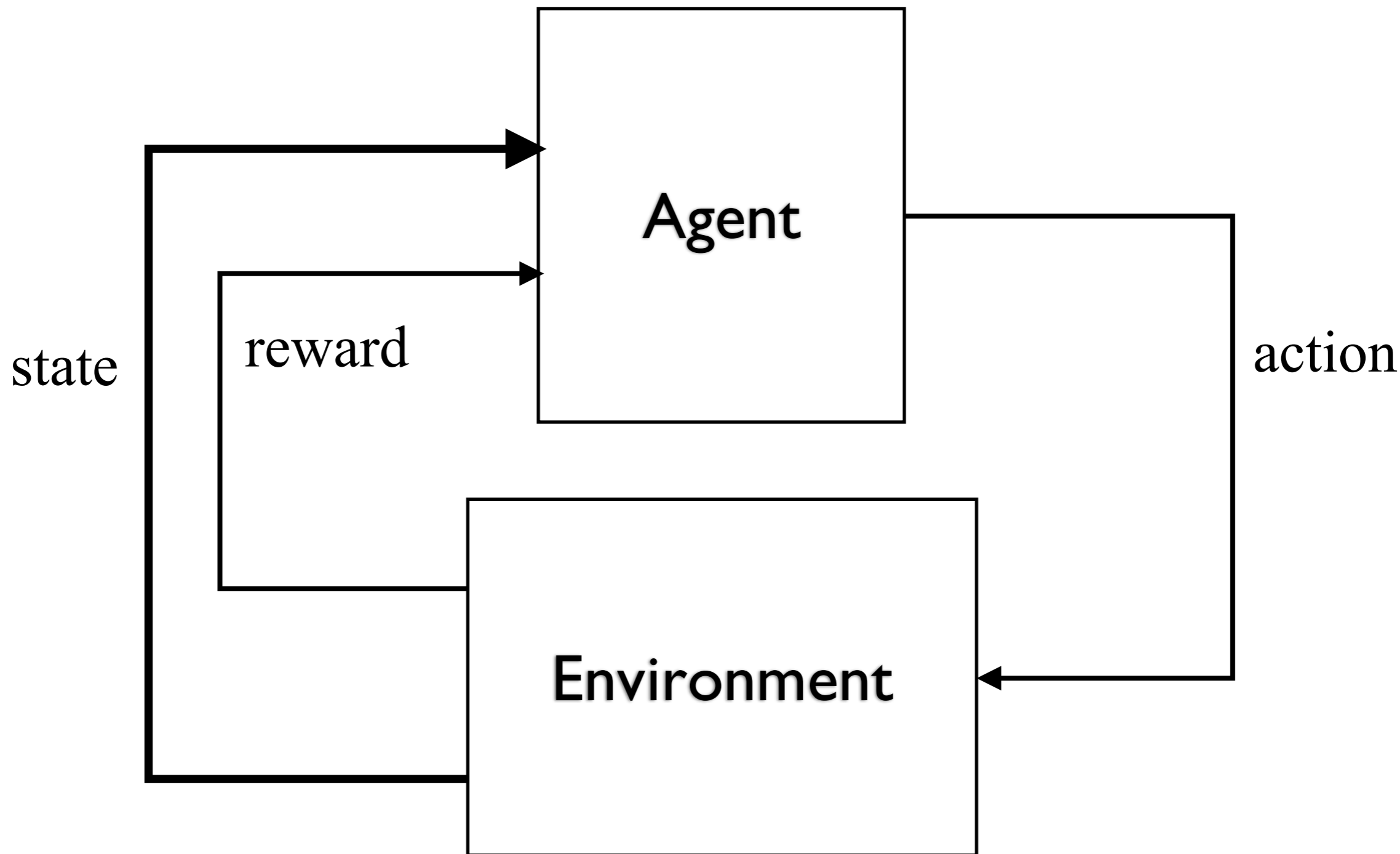
# Dan Lizotte

Computer Science | Epidemiology & Biostatistics

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# Research Interests

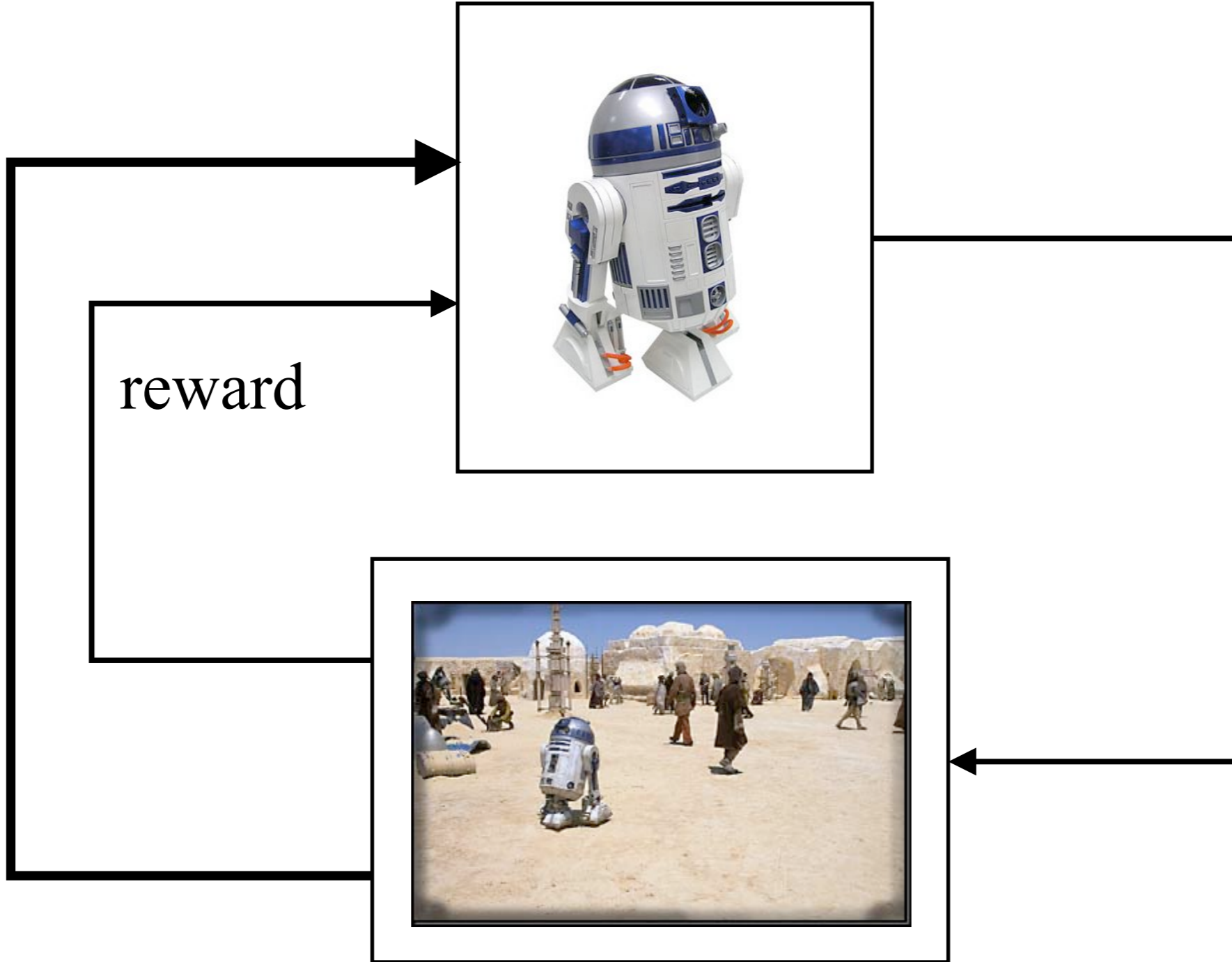
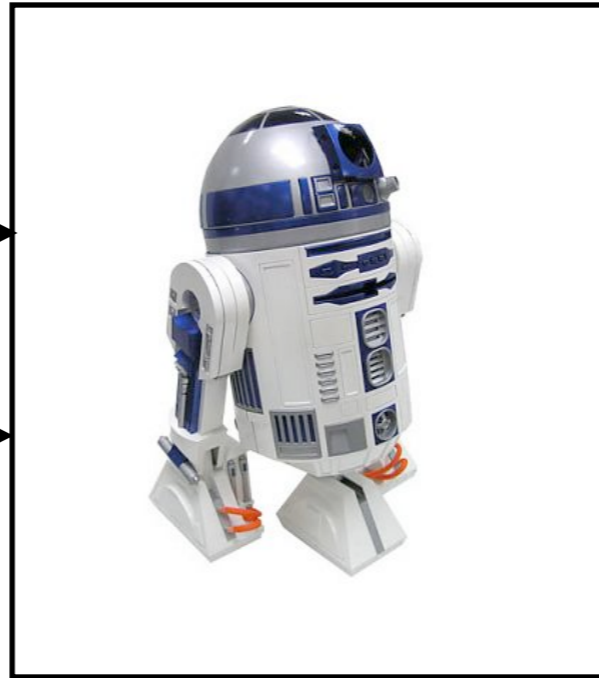
- **Machine learning** and **statistical** methods for prediction, inference, and decision support in **health care**
  - Risk modelling with multiple outcomes
  - Active learning/experimental design
  - Causal inference
  - Sequential decision-making



state

reward

action

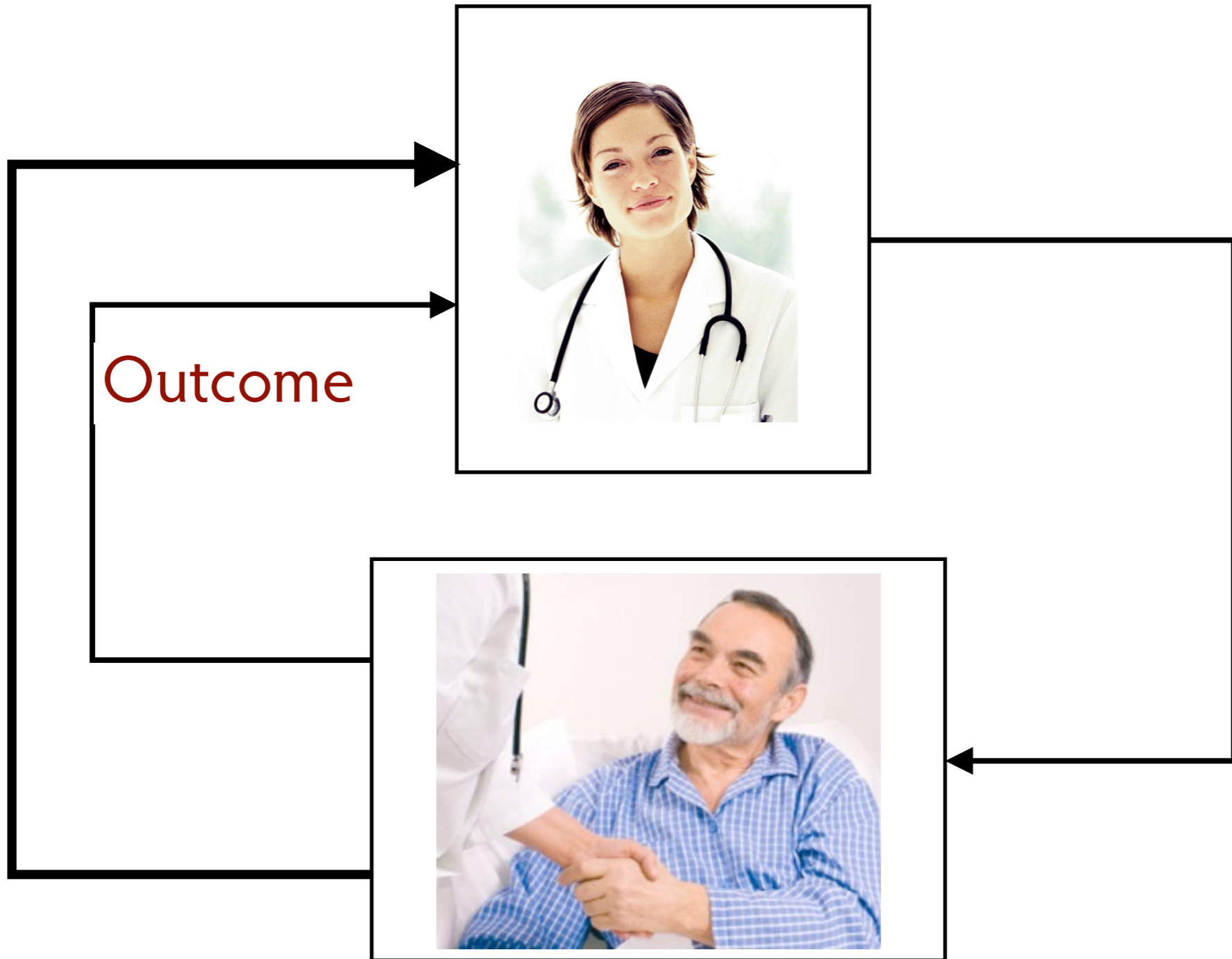


Status

Outcome



Treatment



# CS-based Projects

- Disease Surveillance through Twitter
  - Brent Davis (PhD student co with Kamran Sedig)
  - Partners: Middlesex-London Health Unit, Ottawa Public Health, Canadian Public Health Association, Carleton
- Smart Healthy Campus Initiative
  - Elham Harirpoush (MSc student)
  - Partners: Student Health Services, Psychological Services, Student Recreation Services, faculty across campus...

# Intro. to Data Science

9637B/4437B Tu 11:30-13:30 Th 15:30-16:30

- **Machine Learning Methods for Prediction, Inference, and Decision Support**
  - Statistical background
  - Methods for supervised and unsupervised learning
  - Feature/representation Selection
  - Rigorous evaluation
  - Course is application-driven