What I haven't talked about

How do we estimate E[Y | S, do(A)]?

- Model checking procedures
- Heterogeneous treatment effect estimators
- Doubly robust estimators
- Neural networks for causal effects

How do we choose $P(A \mid S)$?

- Randomized experiments
- Off-Policy Evaluation
- Adaptive experimentation
- Bandit algorithms
- Bayesian Optimization

How do we $\operatorname{argmax}_{A}E[Y|S, \operatorname{do}(A)]$?

- Optimization
- Differentiable programming
- Defining and aligning on goal metrics
- Estimating tradeoffs
- Eliciting preferences from users

How do we estimate $Var[\hat{E}[\ldots]]$?

- Gaussian process models
- Bayesian inference
- Conformal inference
- Deep ensembles
- Bayesian neural networks