## Instrumental Variables

## Practice Problems

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## IV + 2SLS

## Practice problems

- 1. Generate a dataset such that (1) treatment is correlated with the disturbance and (2) there a valid instrument.
- 2. Estimate the treatment effect using 2SLS—both through iv\_robust() and through two stages of lm().
- 3. What does IV recover when the treatment effect is heterogeneous? Show analytically and/or through your numerical example.
- 4. Set up (or at least outline) a data-generating process with compliers, always takers, never takers, and defiers.