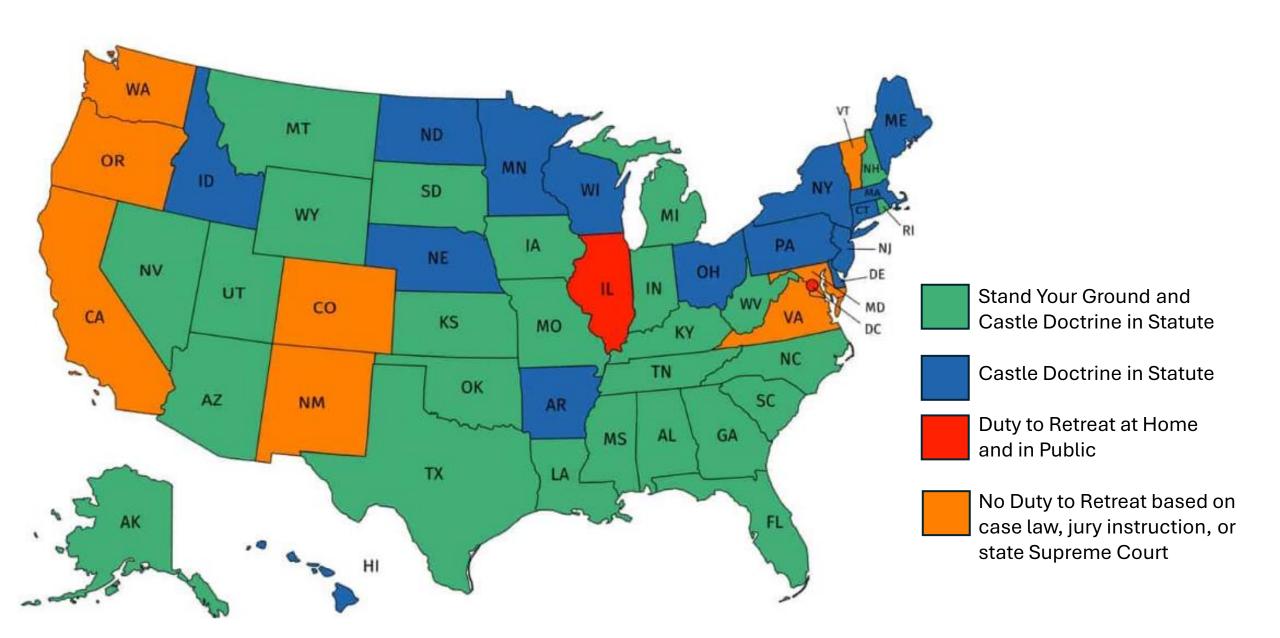


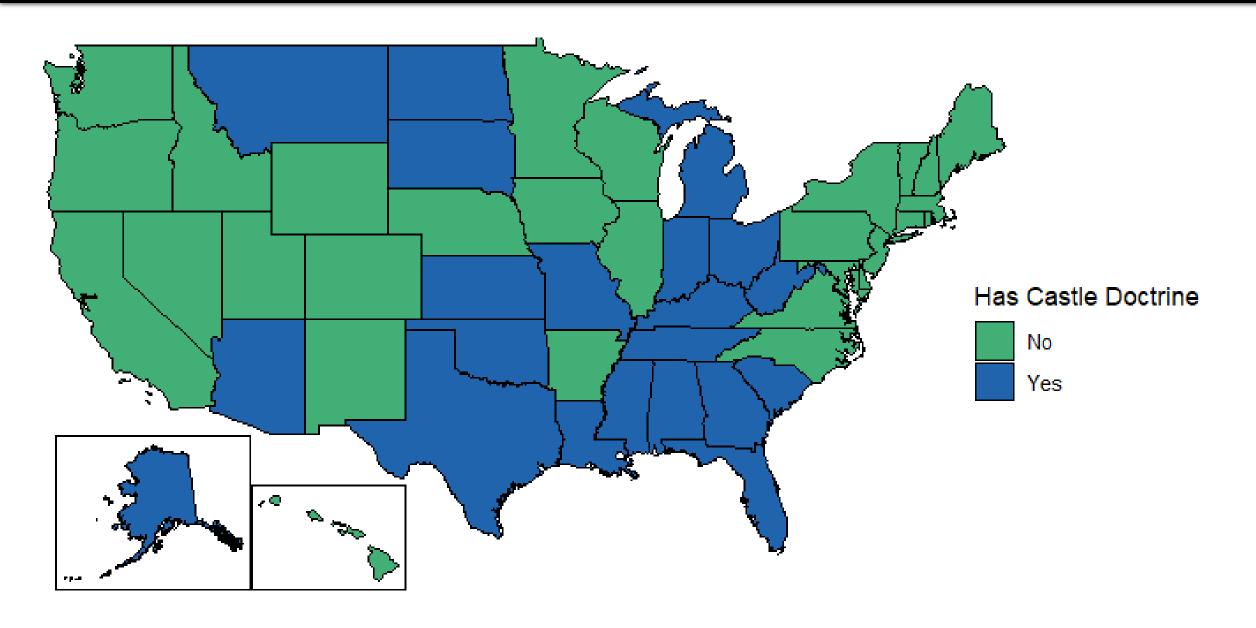
# Castle Doctrine 101

- Stems from English Common Law
  - > "A man's home is his castle"
- Removes one's duty to retreat
  - ➤ Varies State to State
  - Stand Your Ground:
    - Allows: <u>Defensive</u>, <u>proportional</u> force
    - Where: Any location one has a legal right to be
  - > Castle Doctrine:
    - Allows: <u>Deadly</u> force, even if disproportionate
    - Typically, the presence of an intruder automatically satisfies the reasonable fear requirement
    - Where: Varies—always include the home, often includes place of work or vehicle

#### The Current State of the Law



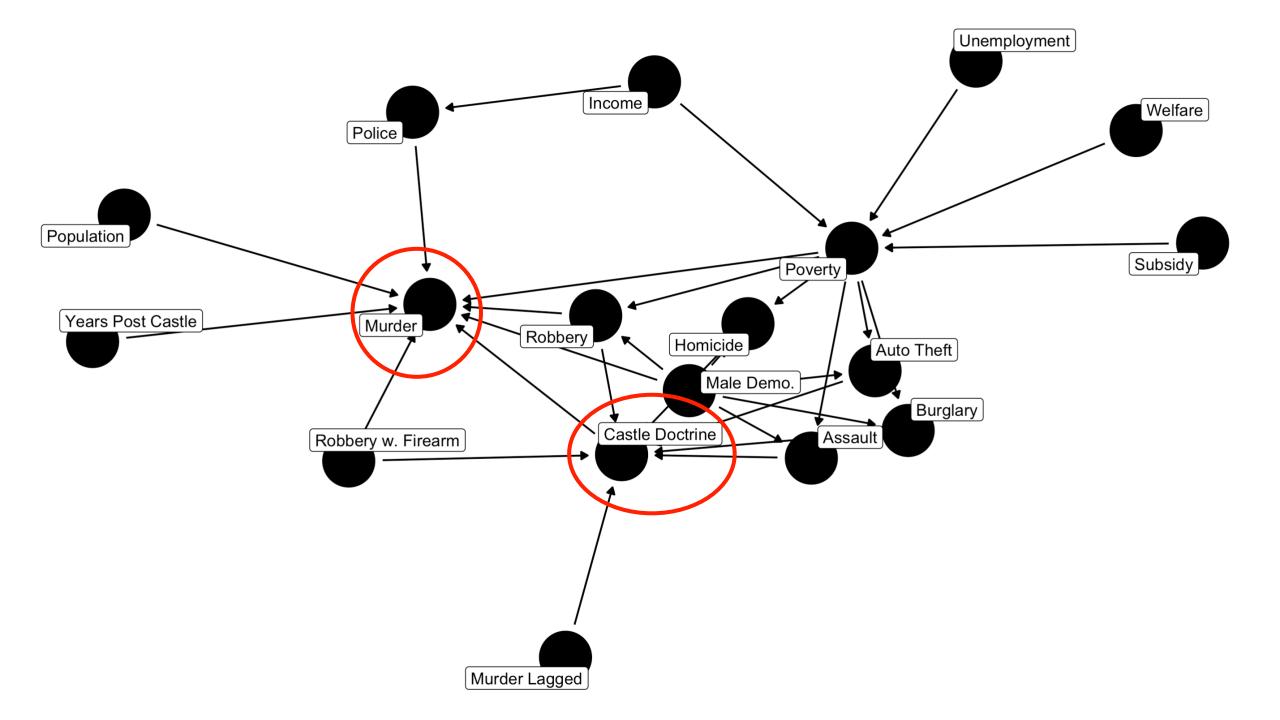
#### The Law in Our Data (2010)

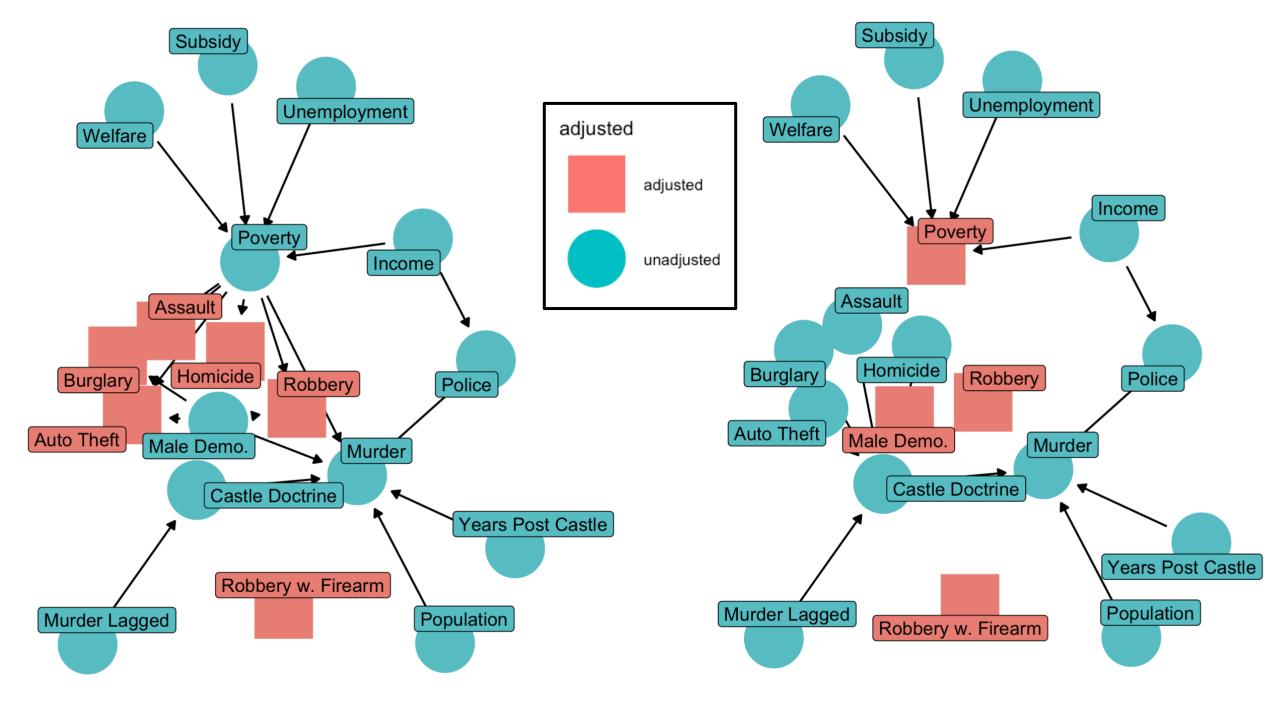


#### Causal Question

Among U.S. states that had passed a Castle Doctrine law between 2001 and 2010, what is the effect of those laws on the states' murder rates?

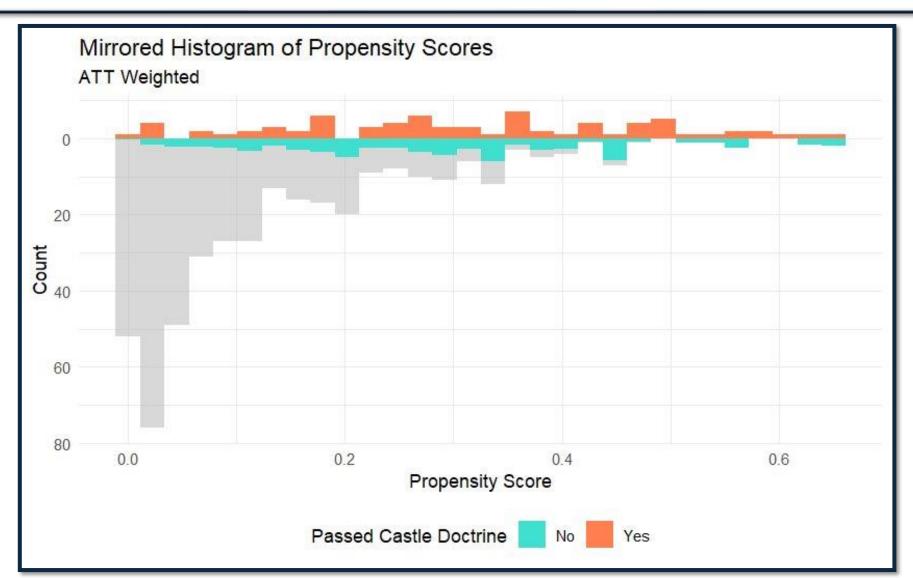
Should states with Castle
Doctrine laws repeal them
in order to lower
their murder rates?

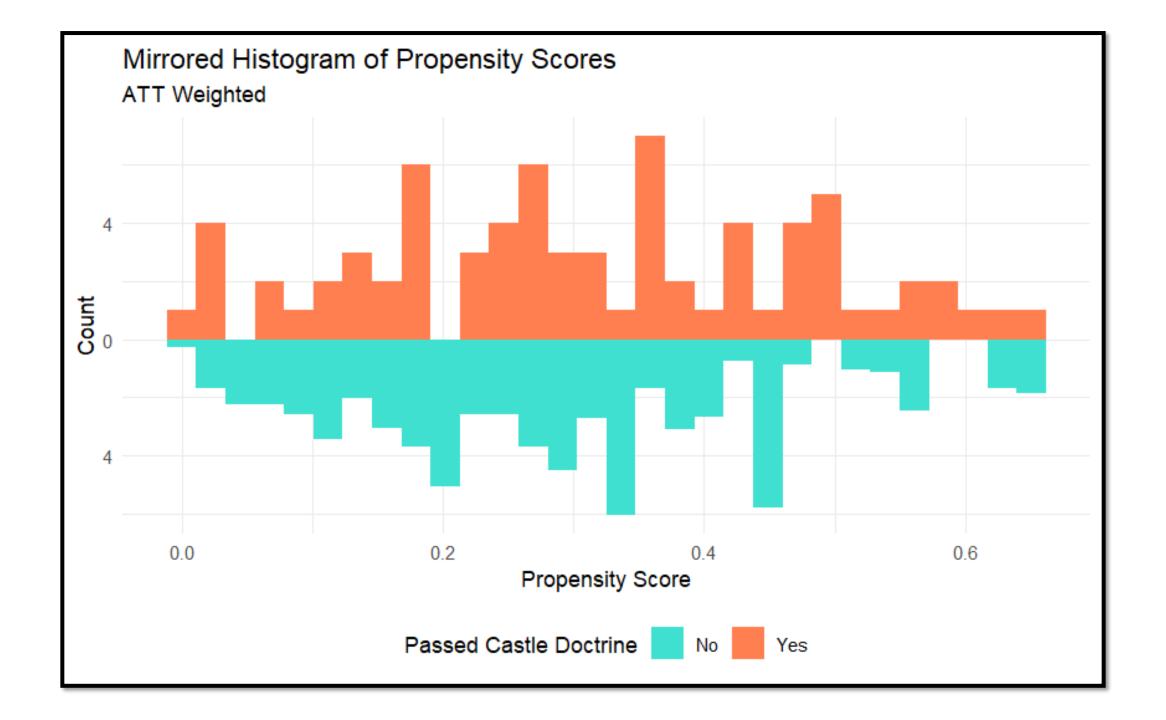


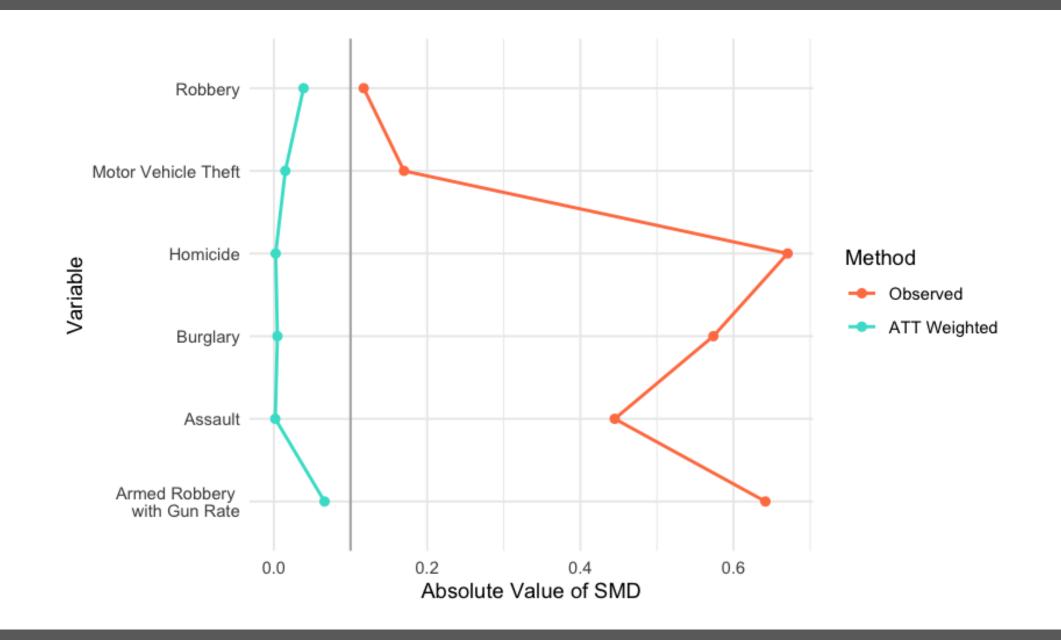


## Inverse Propensity Weighting

 $log\_odds_i = S_{1:3}(Homicide_i) + S_{1:2}(Burglary_i) + Assault_i + MotorTheft_i + Robbery_i + ArmedRobbery_i$ 



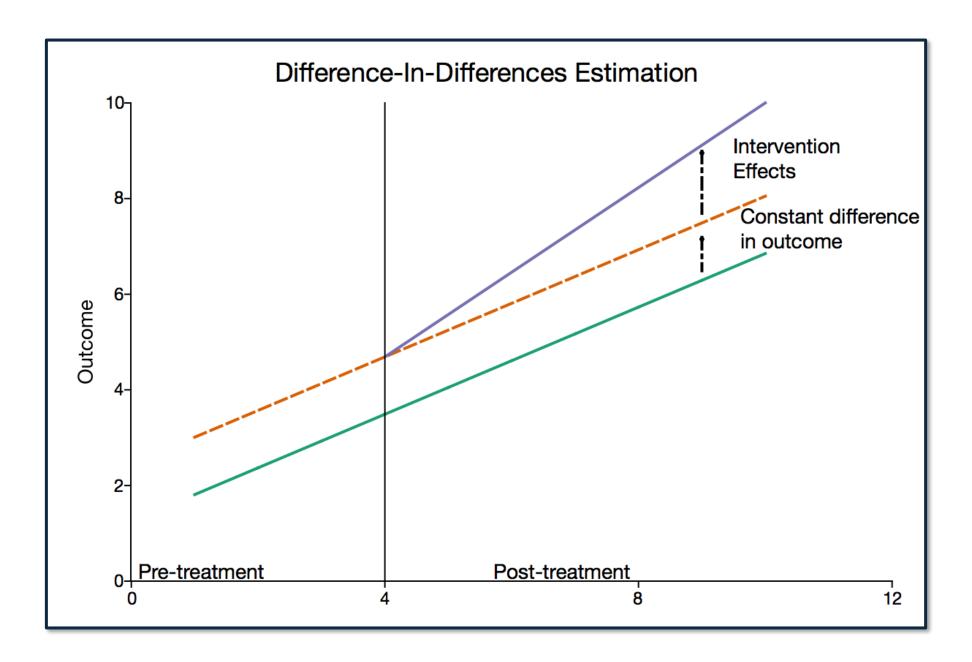




## G-Computation + Difference in Differences

 $Murder_i = CastleDoctrine_i + Years_i + CastleDoctrine_i : Years_i$ 

ATT Point Est.	Years Before After Castle Doctrine
-0.797	1
-1.593	2
-2.390	3
-3.186	4



Years Before After Castle Doctrine	ATT Estimate	ATT Standard Dev.	95% CI Lower Bound	Upper Bound
1	-0.781	0.584	-1.881	0.342
2	-1.546	1.137	-3.847	0.535
3	-2.323	1.737	-5.580	1.180
4	-3.110	2.370	-7.829	1.510

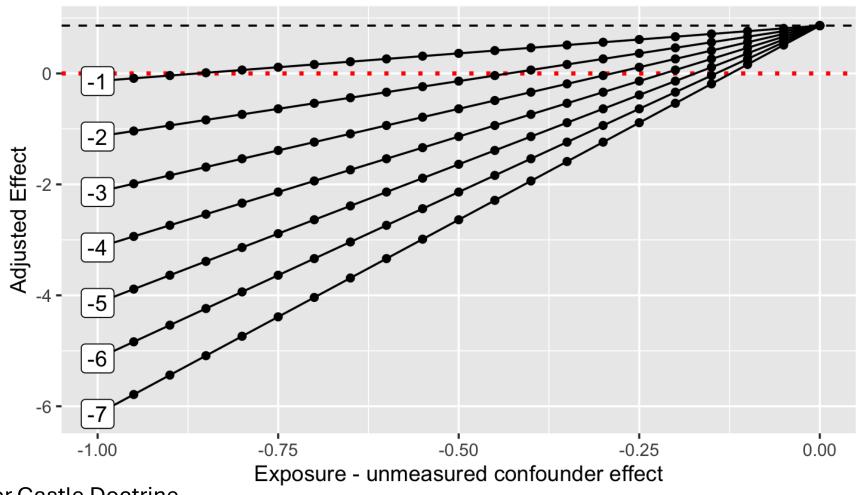
#### Sensitivity Analysis

 $log\_odds_i = S_{1:5}(Poverty_i) + Robbery + S_{1:4}(RobberyFirearm_i) + WhiteMales15to24_i + \\ BlackMales15to24_i + WhiteMales25to44_i + BlackMales25to44_i$ 

Years Before After Castle Doctrine	ATT Estimate	ATT Standard Dev.	95% CI Lower Bound	Upper Bound
1	-0.399	0.618	-1.559	0.862
2	-0.810	1.190	-3.101	1.462
3	-1.193	1.769	-4.362	2.490
4	-1.616	2.385	-6.166	2.761

#### **Tipping Point Analysis**

Effect of Unmeasured Confounder on Treatment Effect



## Conclusions, Limitations, and Future Directions

As far as our analysis shows, implementing Castle Doctrine does not significantly increase or decrease a state's murder rate

Reconsider DAG structure

Add other potentially important covariates, such as gun ownership rates or state political leaning

Examine the effect of implementing Castle Doctrine on burglary or overall homicide rates

#### References

- Cheng, Cheng, and Mark Hoekstra. 2013. "Does Strengthening Self-Defense Law Deter Crime or Escalate Violence? Evidence from Expansions to Castle Doctrine." Journal of Human Resources 48 (3): 821–54.
- Huntington-Klein, N., & Barrett, M. (2024, October 24). Castle Dataset. R
   PACKAGES. <a href="https://r-packages.io/datasets/castle">https://r-packages.io/datasets/castle</a>