

Supporting Information for:
What Have We Learned About Gender From Candidate
Choice Experiments?
A Meta-analysis of 67 Factorial Survey Experiments

Susanne Schwarz and Alexander Coppock*

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*Susanne Schwarz is a Doctoral Candidate in the Department of Politics, Princeton University. Alexander Coppock is Assistant Professor of Political Science, Yale University.

A Study-by-study CATEs by other candidate attributes

In this appendix, we show the effects of gender, conditional on other candidate characteristics for a subset of studies. Since most studies included in our analysis were not primarily concerned with the effects of candidate gender on vote choice, they included a wide range of other candidate characteristics. Table A.1 provides an overview of the attributes included in this analysis.

Figure A.1 shows the distribution of CATEs, conditional on each of the attributes listed in Table A.1. The figure tells a very consistent story. Not only do the average treatment effects of gender on vote choice tend to be positive, so too do the conditional average treatment effects of gender. Our main takeaway from Figure A.1 is that the effect of candidate gender on vote choice does vary somewhat depending on the level of the other candidate characteristics but is typically positive. In the remainder of the appendix, we show the study-by-study estimates that make up Figure A.1.

Table A.1: Overview of Attributes (Other Than Gender) Included in Study Designs

Study	Design Attributes
Aguilar, Cunow, and Desposato (2015), Sao Paulo	Race, ballot length
Bansak, Hainmueller, Hopkins, and Yamamoto (2018), USA - MTurk	State of Residence, Age, Race/Ethnicity, Annual Income, Marital status, Religion, College Education, Military Service, Political Party , Political experience, Largest campaign contributor, Position on Health Care, Position on Abortion, Position on Gay Marriage, Favorite Music, Favorite sport, Car
Bansak, Hainmueller, Hopkins, and Yamamoto (2018), USA - SSI	State of Residence, Age, Race/Ethnicity, Annual Income, Marital status, Religion, College Education, Military Service, Political Party , Political experience, Largest campaign contributor, Position on Health Care, Position on Abortion, Position on Gay Marriage, Favorite Music, Favorite sport, Car
Campbell, Cowley, Vivyan, and Wagner (2016), UK - Frequency of MP Dissent	Constituency Effort, Frequency of Dissent, Political Party, Tenure of Elected Office
Campbell, Cowley, Vivyan, and Wagner (2016), UK - Type of MP Dissent	Constituency Effort, Type of Dissent, Political Party, Views important for policy
Carnes and Lupu (2016), Argentina	Occupation , Education , Ideology , Experience
Carnes and Lupu (2016), UK	Occupation, Education, Party
Carnes and Lupu (2016), USA	Occupation, Office, Education, Race
Clayton, Robinson, Johnson, Muriaas (2019), Malawi	Education, leadership experience, family structure, occupation, policy priority, matrilineal vs. patrilineal kinship
Eggers, Vivyan, and Wagner (2018), UK	Party ID, age, profession, corruption history
Hainmueller, Hopkins, and Yamamoto (2014), USA	Age, race or ethnicity, education, income, profession, religion, military service
Henderson et al. (2019), USA	Personality, Endorsements, Issue Position 1, Issue Position 2, Political Record, Religion, Race, Profession
Holman, Merolla, and Zechmeister (2016), USA	Context, Opponent
Hopkins, Daniel (2014), USA	Race/ethnicity, party ID, religion, issue positions on health care, gun control, abortion, government spending and gay marriage, annual income
Kirkland and Coppock (2017), USA - MTurk	Age, Experience, Occupation, Race, Party
Kirkland and Coppock (2017), USA - YouGov	Age, Experience, Occupation, Race, Party
Mo (2015), Florida	Competition
Saha and Weeks (2019), DLABSS 1	Progressive, Political Agenda, Political Experience
Saha and Weeks (2019), USA, DLABSS 2	Profession, Age, Progressive, Political Agenda, Political Experience
Saha and Weeks (2019), USA, SSI	Personality traits, Family, Progressive, Political Agenda
Saha and Weeks (2019), UK, Prolific	Personality traits, Family, Progressive, Political Agenda
Sen (2017), USA, SSI 1	Political Party, Religion, Education, Court experience, Race/Ethnicity, Age, Profession
Sen (2017), USA, SSI 2	Religion, Education, Court experience, Race/Ethnicity, Age, Profession
Teele, Kalla, and Rosenbluth (2018), USA	Occupation, Experience, Age, Children, Spouse's Job
Visconti (2017), Chile	Ideology, age, profession, political experience, position on flood relief
Mares and Visconti (2020), Romania	Experience, Negative Inducement, Positive Inducement, Investigation, Policy/Public Goods, Income
Harris, Kao, and Lust (2020), Malawi	Election Type, Ethnicity, Living Status, Partisanship, Type of future promise, Endorser Endowment, Actions at campaign rallies, Target of distribution
Harris, Kao, and Lust (2020), Zambia	Election Type, Ethnicity, Living Status, Partisanship, Type of future promise, Endorser Endowment, Actions at campaign rallies, Target of distribution
Horne (2020), UK	Party, Occupation, Education, Ideology
Bischof and Senninger (2020), Germany	Knowledge, Eurozone reform, Absent days, Motivation, Experience, Party
Shaffner and Green (2020), YouGov Blue	Age, Environment, Health, Strategy, Background
Costa (2020), USA - Lucid	Constituent Relations, Latest Tweet, Party
Leeper and Robison (2020), US, SSI	Race, Religion, Occupation, Party, Military Service, Education, Trans-Pacific Partnership, ISIS, Cap and trade, Tax the rich, Path to citizenship
Clayton and Nyhan (2020), USA - Donors	Partisanship, Race, Voting, Investigations, Compromise, Courts, Discrimination, Taxes
Clayton and Nyhan (2020), USA - YouGov	Partisanship, Race, Voting, Investigations, Compromise, Courts, Discrimination, Taxes
Blackman and Jackson (2019), Tunisia - Face-to-Face	Party, Job, Town, Education, Age, Policy, Experience
Blackman and Jackson (2019), Tunisia - YouGov	Party, Job, Town, Education, Age, Policy, Experience
Ono and Yamada (2018), Japan	Education, Specialization, Social Issues, Economic Issues, Military Issues
Arnesen, Duell, and Johannesson (2019), Norway 1	Age, Education, Region, Relationship, Religion, Work
Arnesen, Duell, and Johannesson (2019), Norway 2	Age, Education, Region, Relationship, Religion, Work
Martin and Blinder (2020), UK, YouGov	Ethnicity, Entry into politics, Immigration policy, Law enforcement, Party
Goyal (2020), India	Party, Caste, Occupation, Background, Policy
Lemi (2020), USA, Qualtrics	Experience, Ideology, Nativity, Party

Figure A.1: 954 Estimates of the Effect of Candidate Gender, Conditional on Auxilliary Candidate Attributes

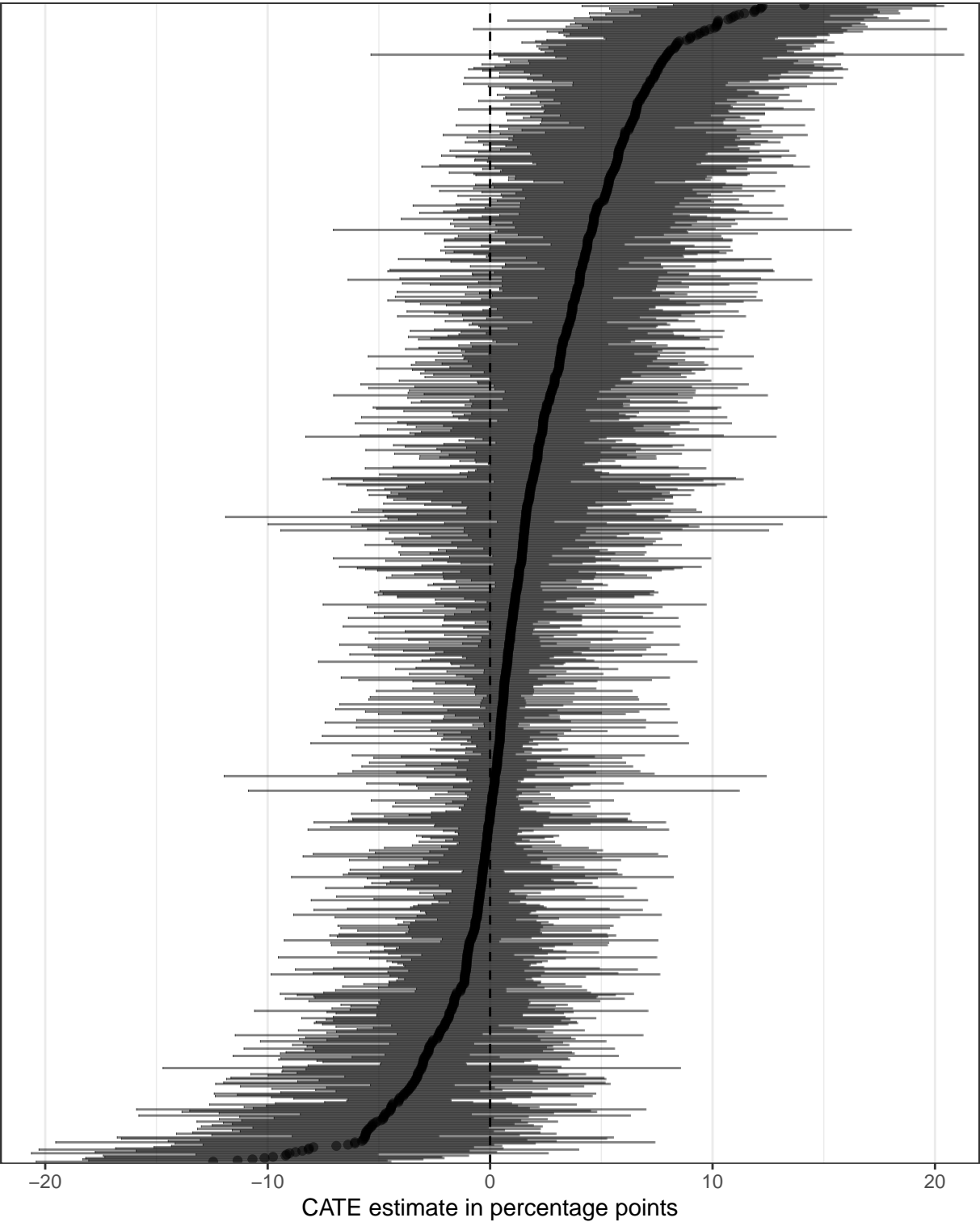


Figure A.2: Aguilar, Cunow, and Desposato (2015), Sao Paulo

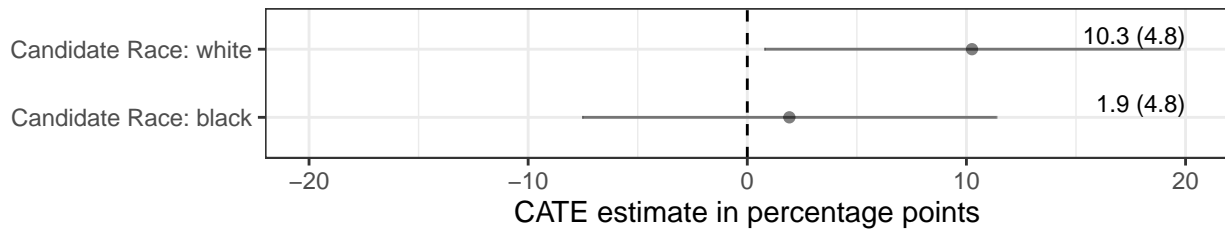


Figure A.3: Arnesen, Duell, and Johannesson (2019), Norway

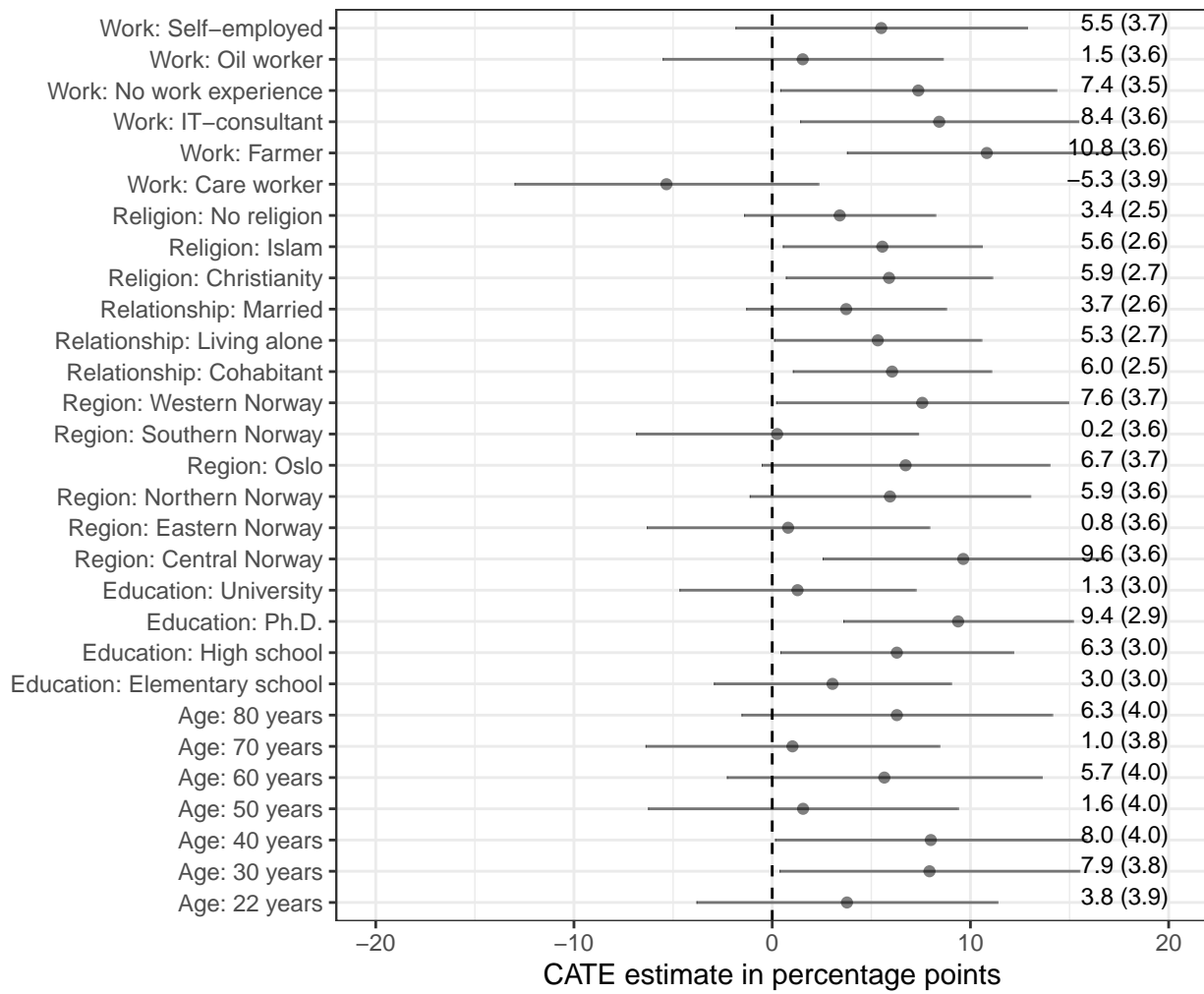


Figure A.4: Arnesen, Duell, and Johannesson (2019), Norway

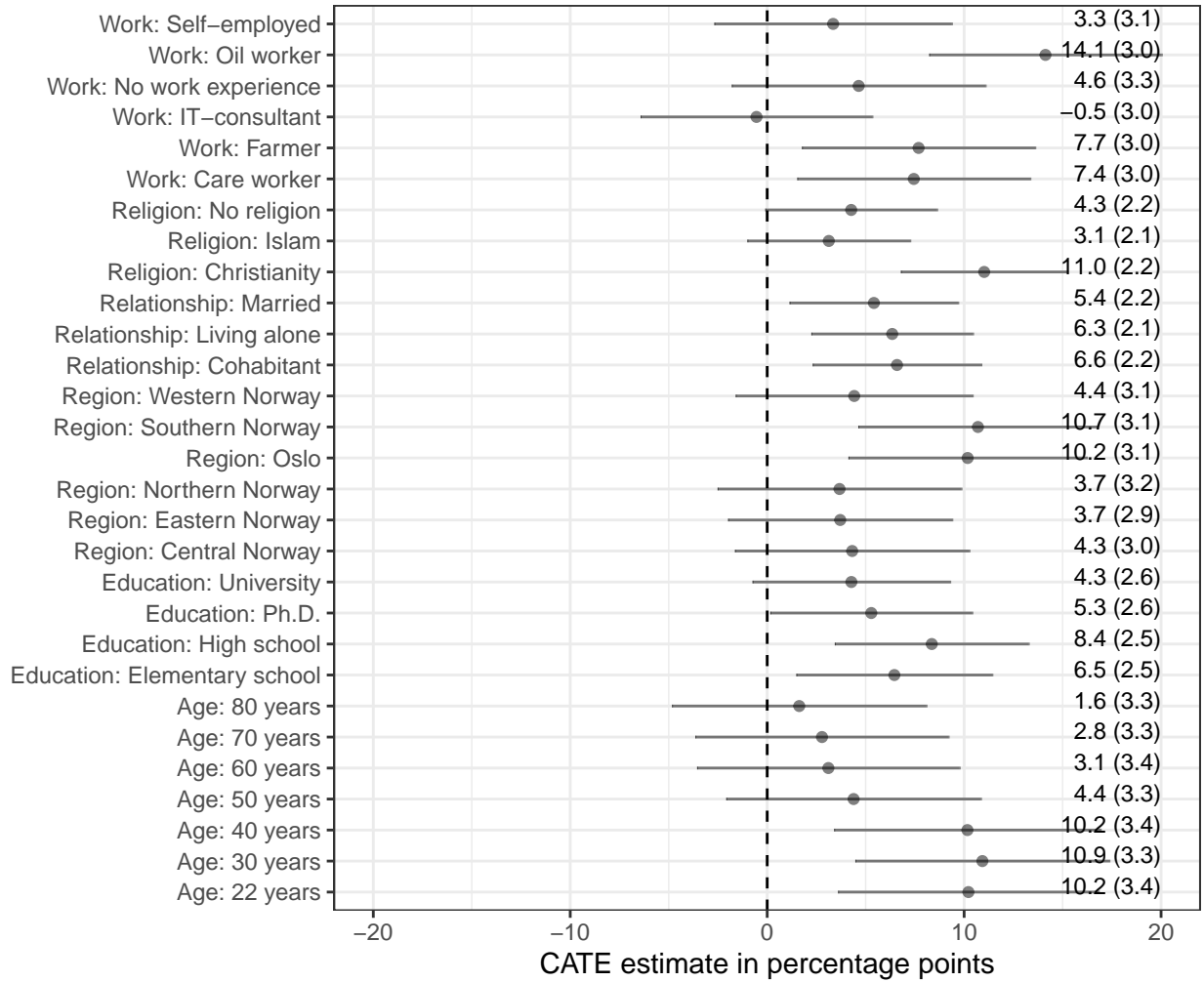


Figure A.5: Bansak, Hainmueller, Hopkins, and Yamamoto (2018), USA - MTurk

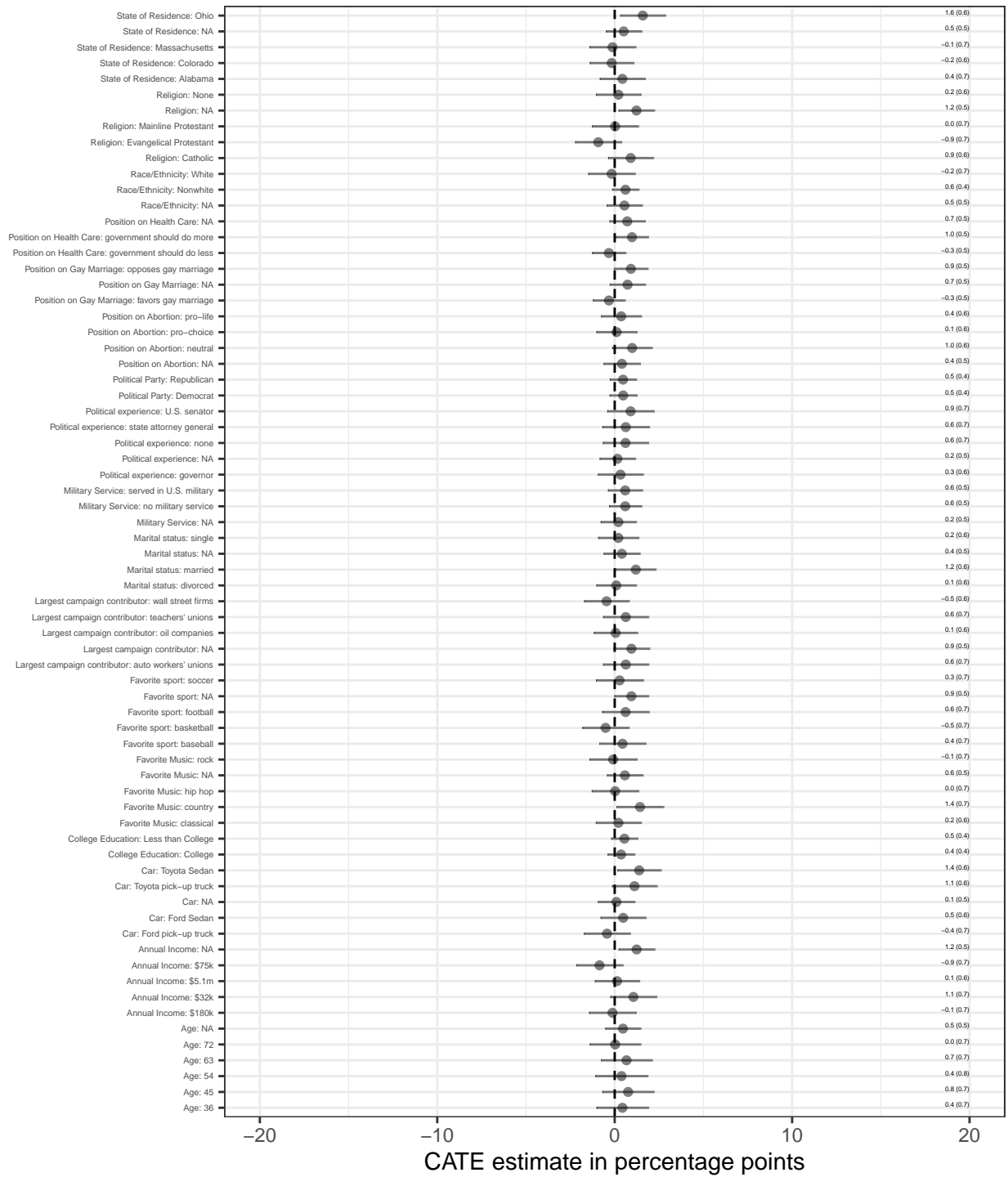


Figure A.6: Bansak, Hainmueller, Hopkins, and Yamamoto (2018), USA - SSI

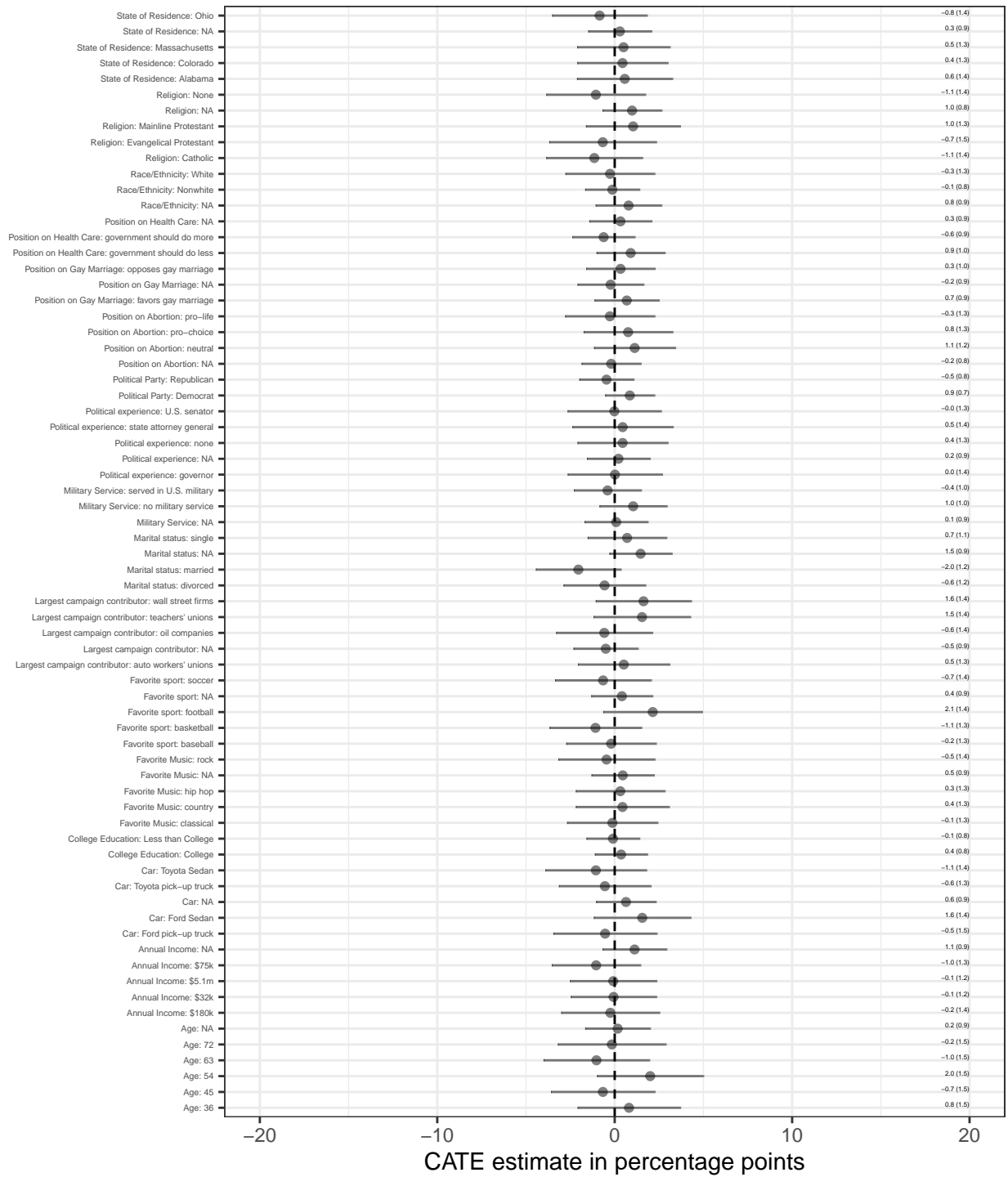


Figure A.7: Bischof and Senninger (2020)

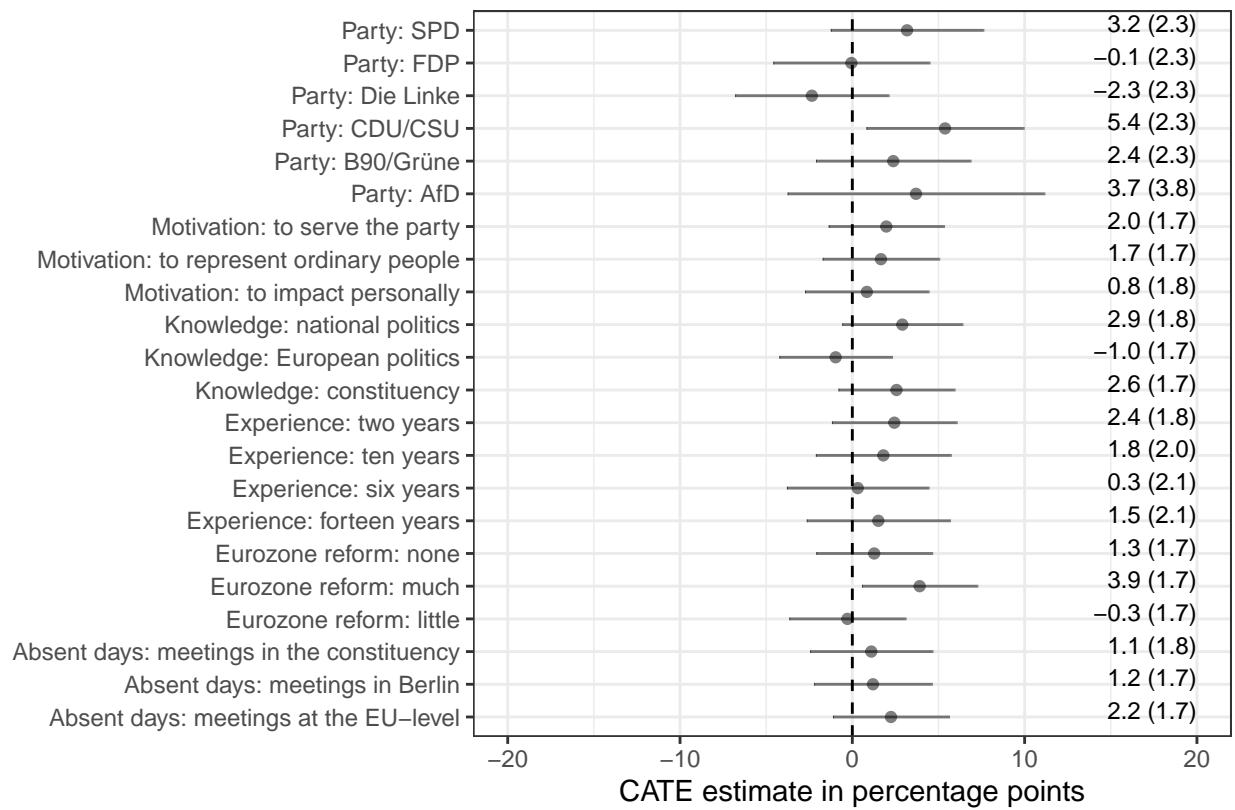


Figure A.8: Blackman and Jackson (2019), Tunisia - Face-to-Face

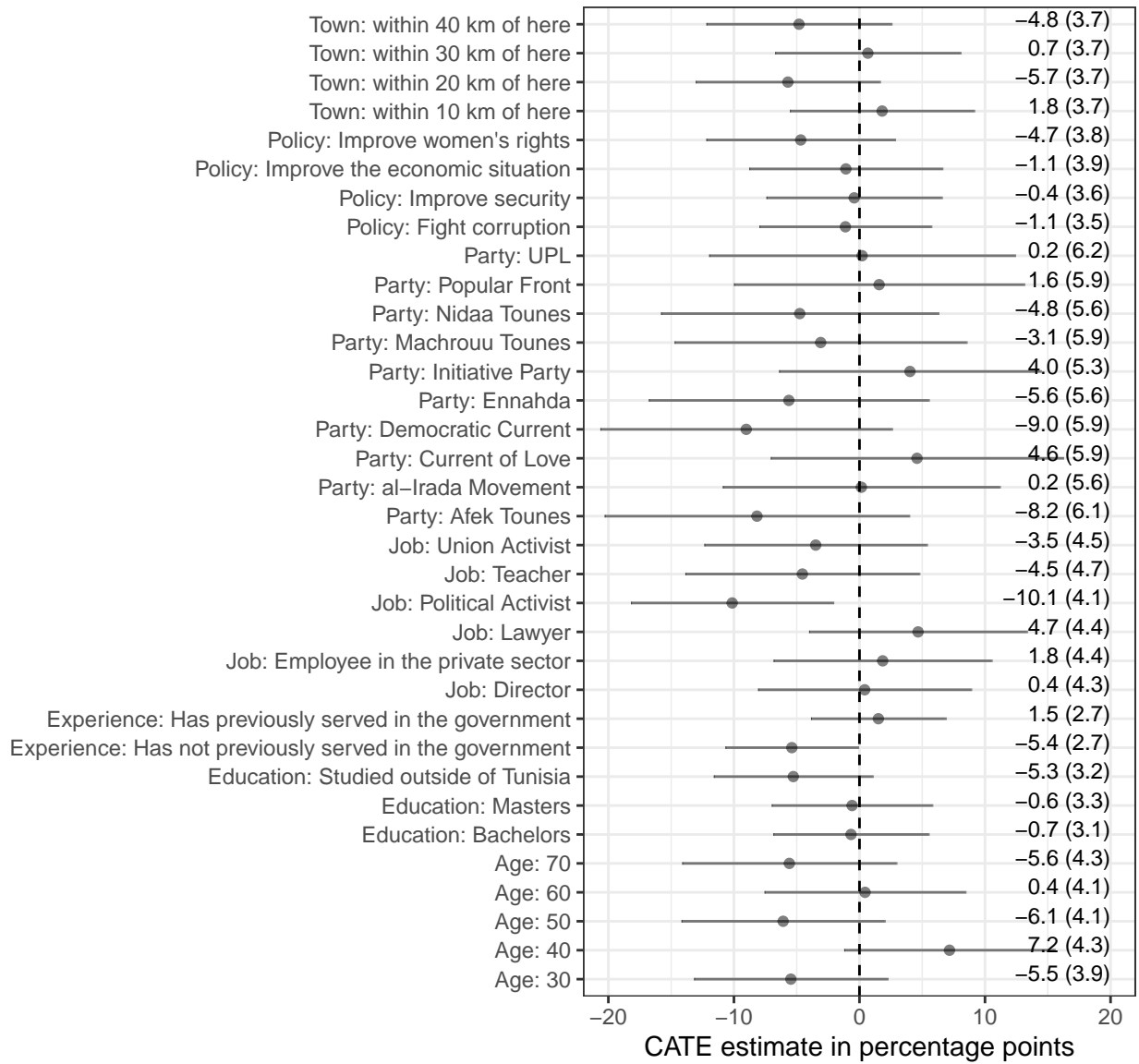


Figure A.9: Blackman and Jackson (2019), Tunisia - YouGov

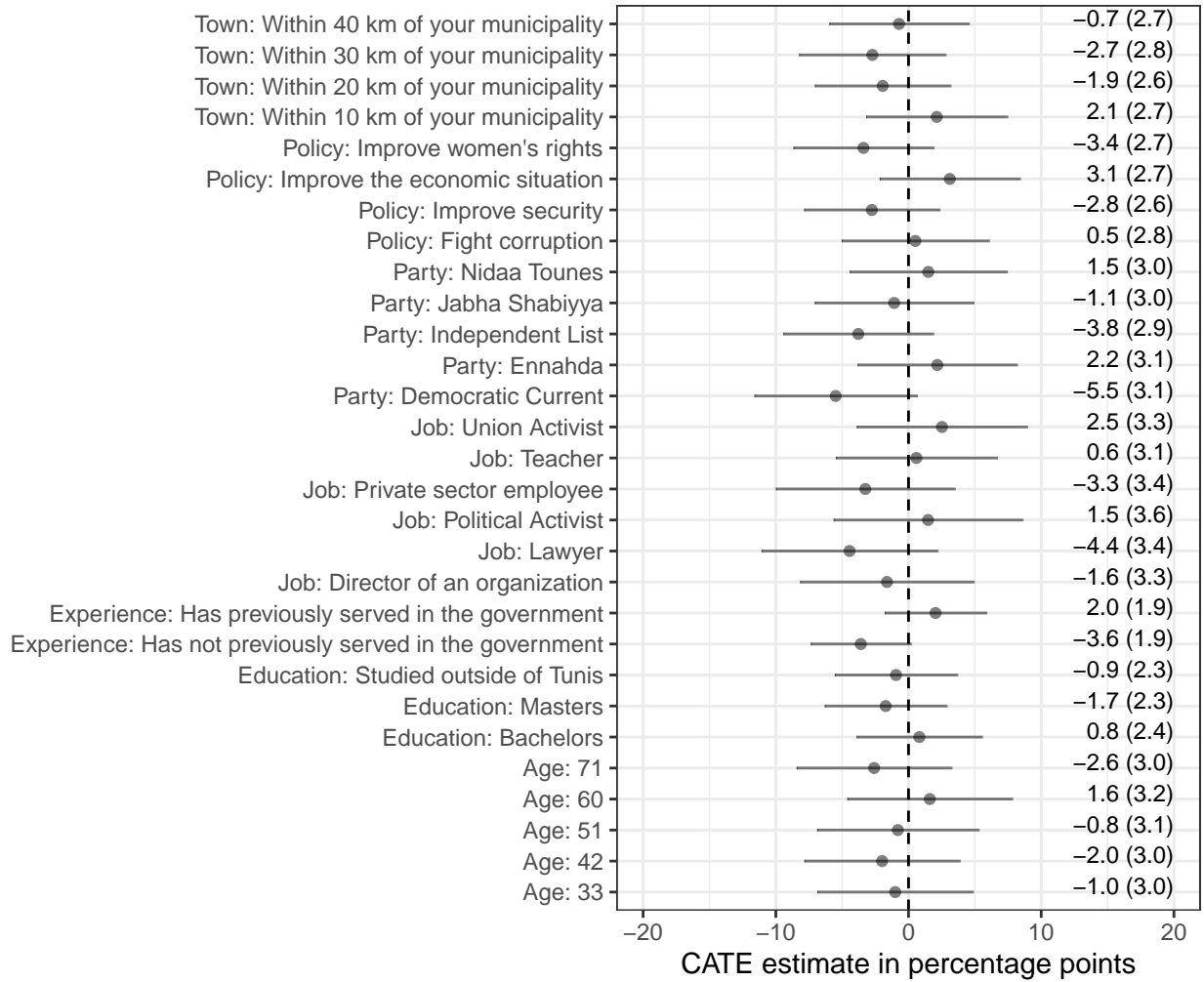


Figure A.10: Campbell, Cowley, Vivyan, and Wagner (2016), UK - Frequency of MP Dissent

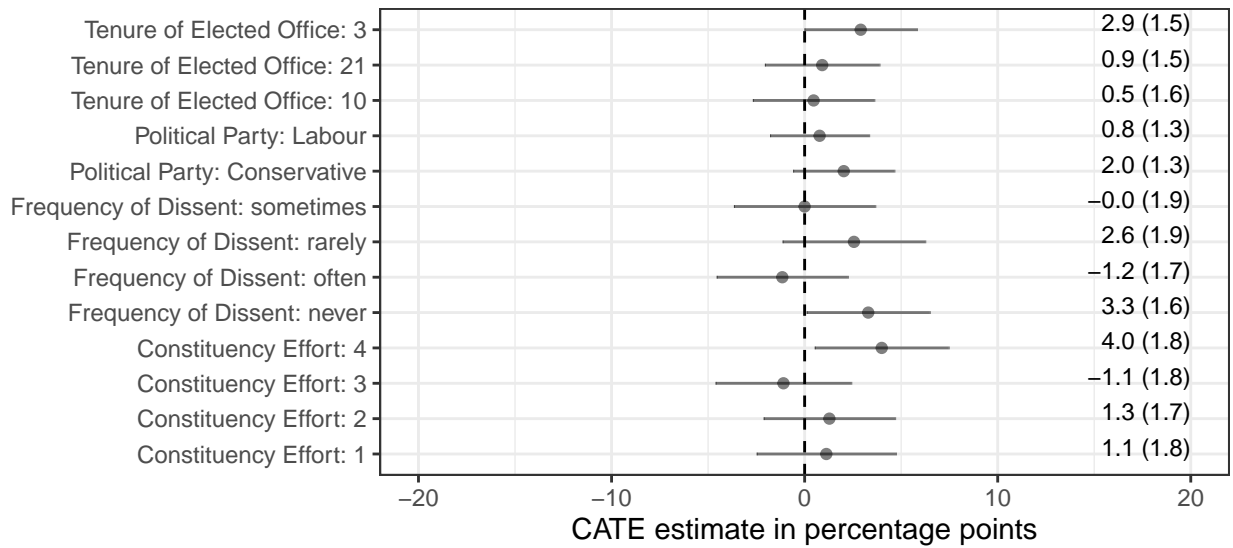


Figure A.11: Campbell, Cowley, Vivyan, and Wagner (2016), UK - Type of MP Dissent

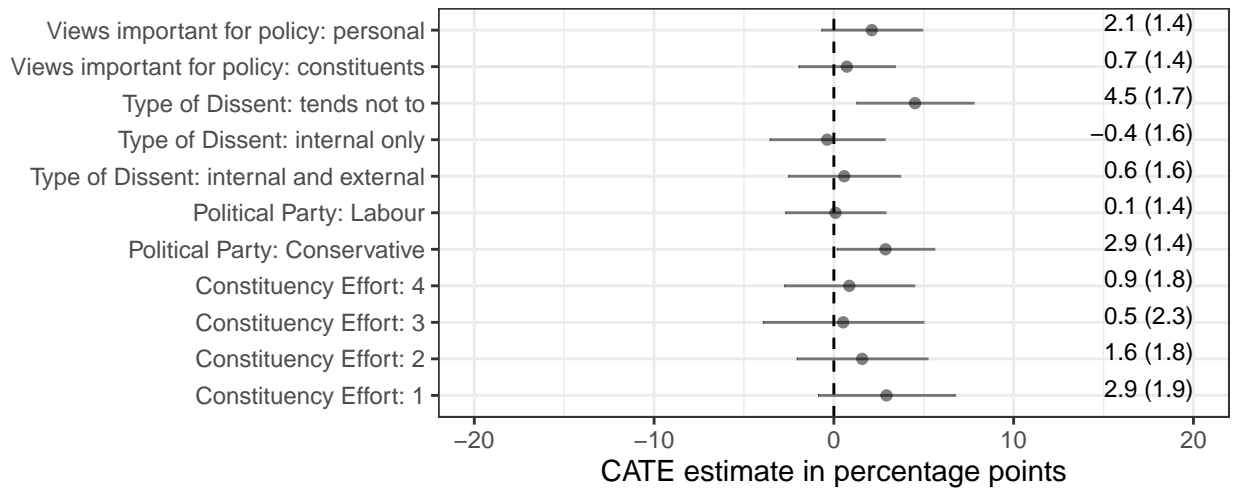


Figure A.12: Carnes and Lupu (2016), Argentina

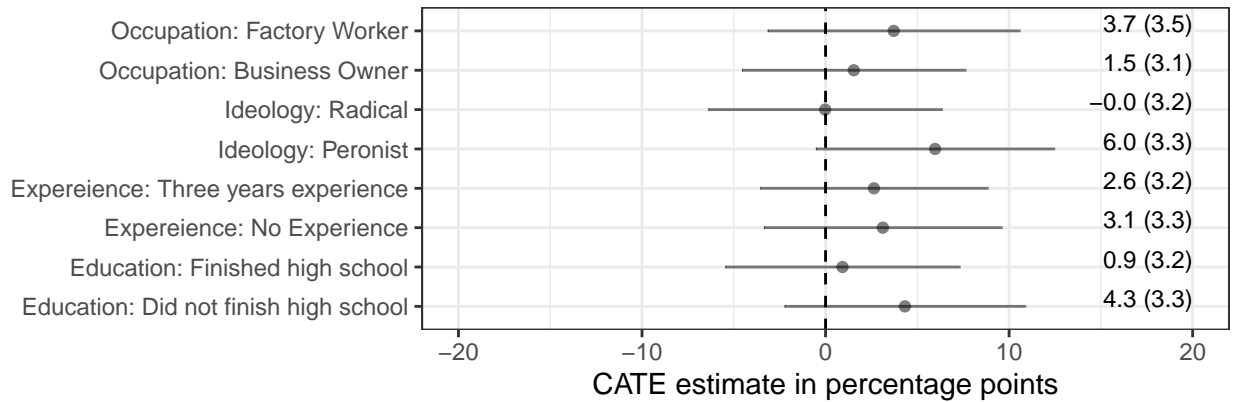


Figure A.13: Carnes and Lupu (2016), UK

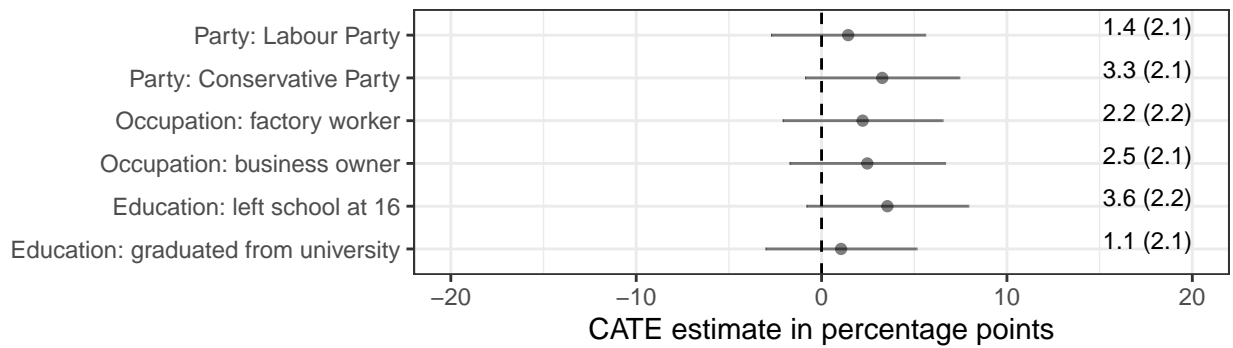


Figure A.14: Carnes and Lupu (2016), USA

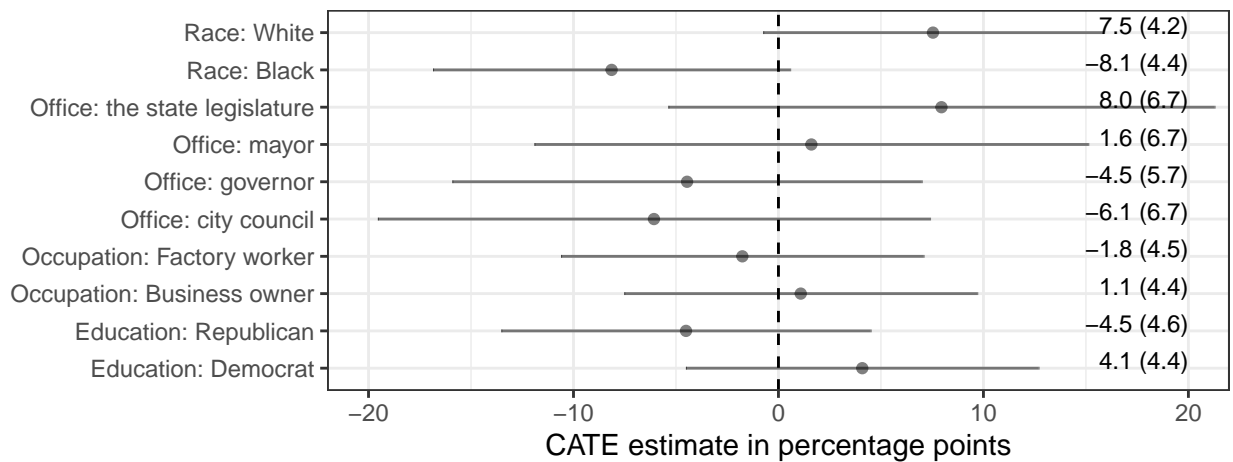


Figure A.15: Clayton, Robinson, Johnson, Muriaas (2019), Malawi

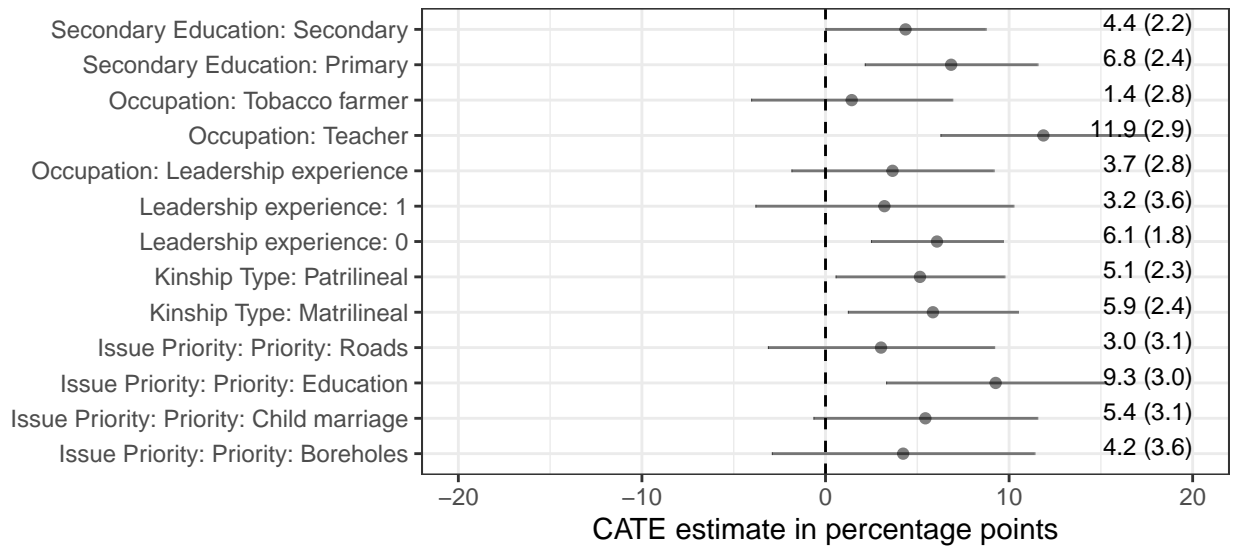


Figure A.16: Clayton and Nyhan (2020), USA - Donors

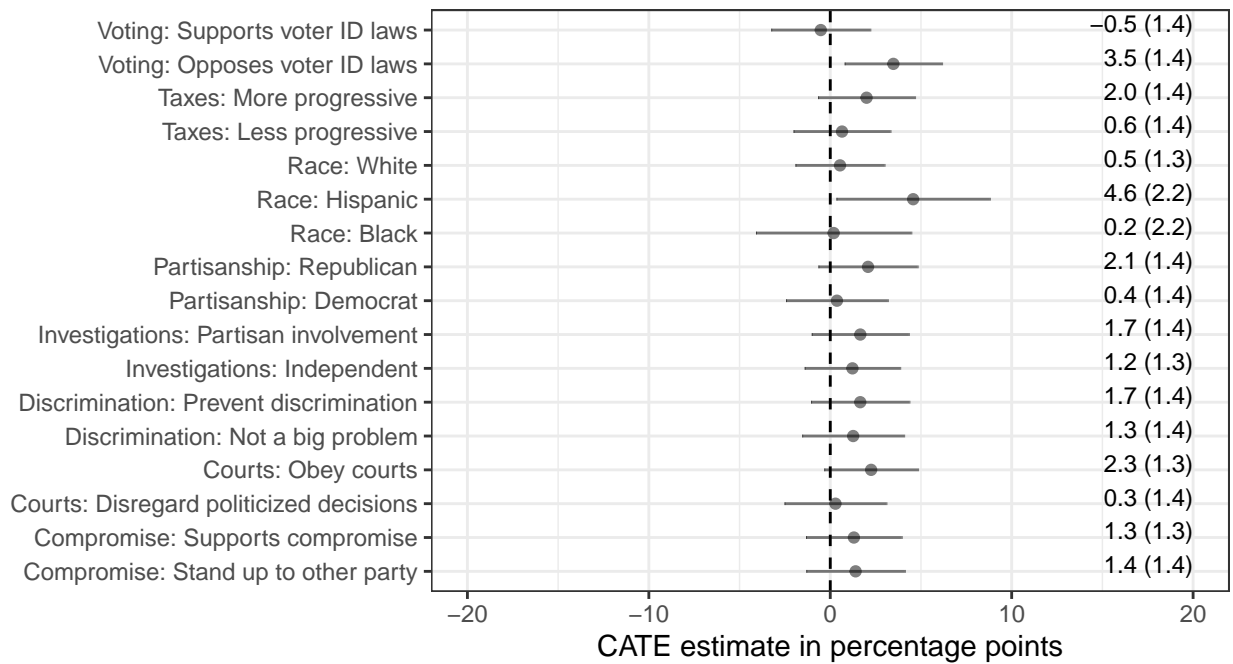


Figure A.17: Clayton and Nyhan (2020), USA - YouGov

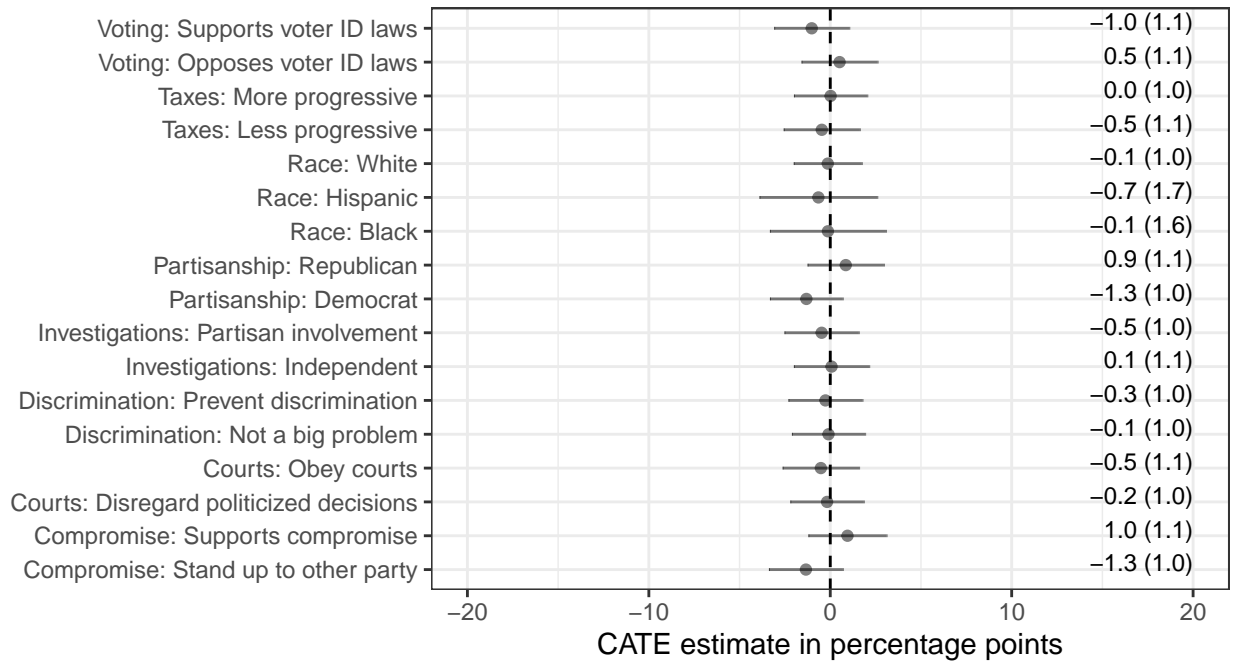


Figure A.18: Costa (2020), USA - Lucid

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Tweet: Republicans are CORRUPT and IMMORAL. I will not sit silent while they lie to Americans and steer us in the v
Latest Tweet: Providing Medicare for all Americans is NOT the right solution to fix health care
e way to start fixing the immigration problem in this country is to increase spending for border security between the U.
Latest Tweet: Increasing spending on border security between the U.S. and Mexico would NOT fix immigration policy
Latest Tweet: Everyone in this country deserves basic health care. This is why we must support Medicare for
st Tweet: Democrats are CORRUPT and IMMORAL. I will not sit silent while they lie to Americans and steer us in the v
Constituent Relations: Answers over 90 percent of c
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Figure A.19: Eggers, Vivyan, and Wagner (2018), UK

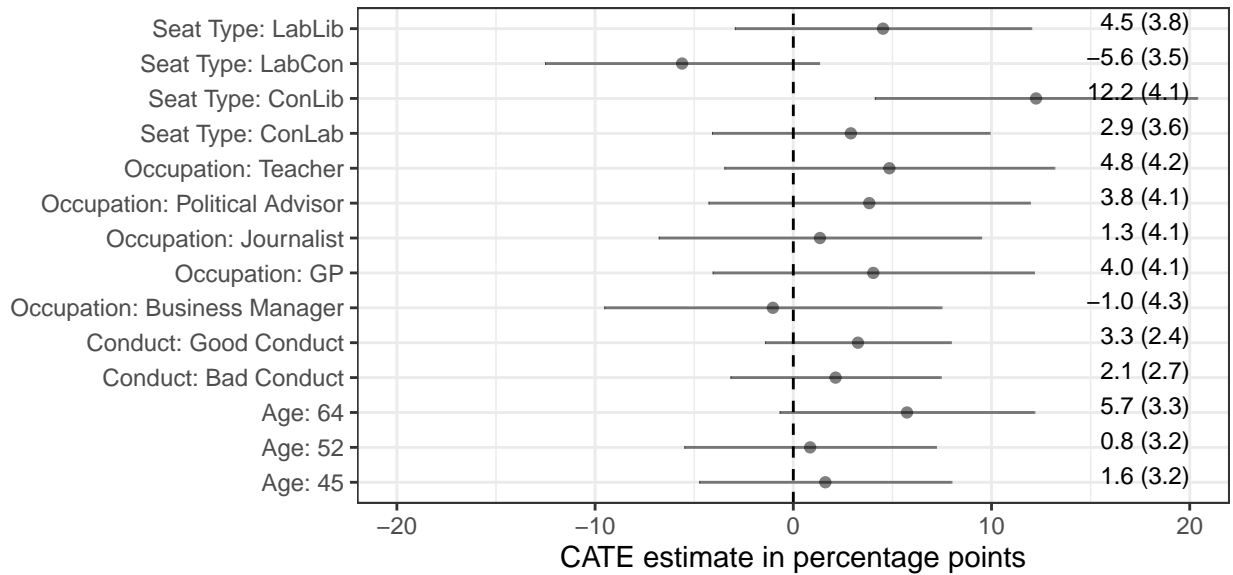


Figure A.20: Goyal (2020), India

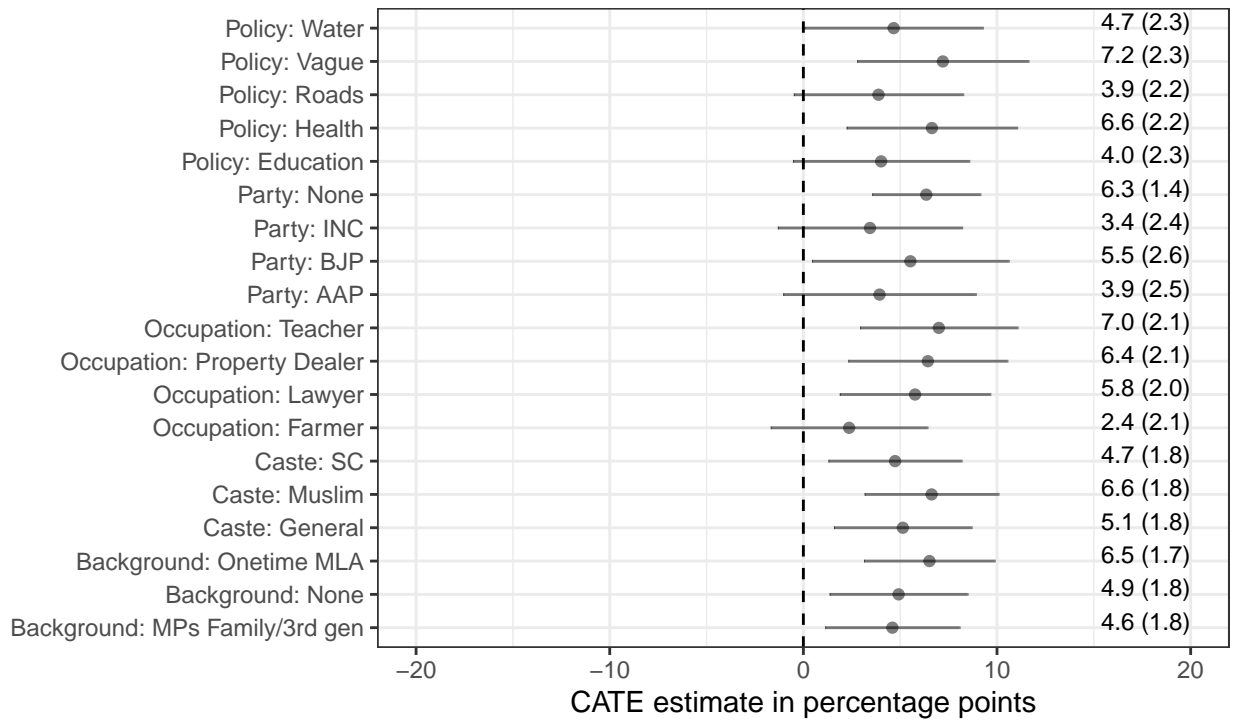


Figure A.21: Hainmueller, Hopkins, and Yamamoto (2014), USA

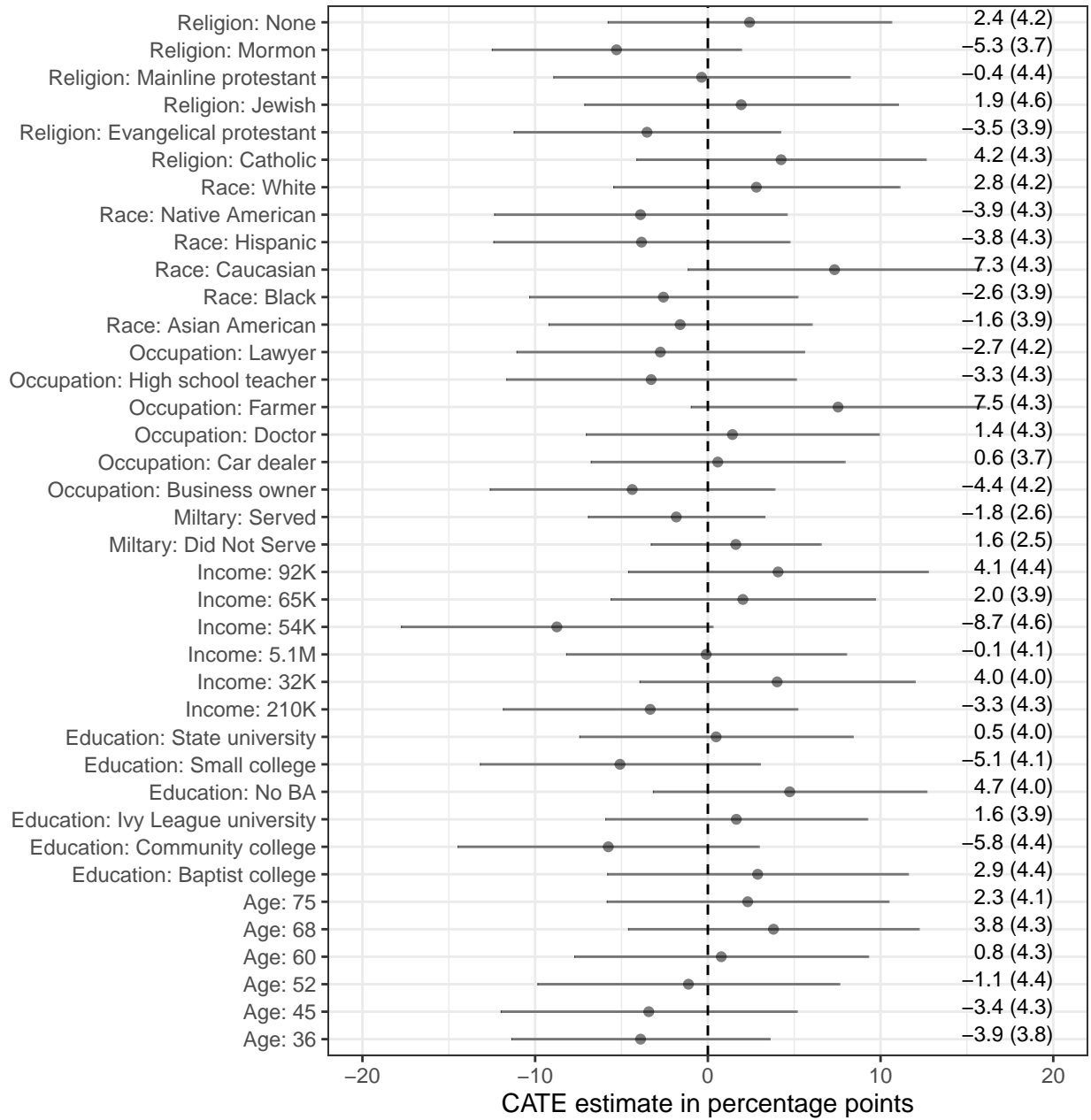


Figure A.22: Harris, Kao, and Lust (2020), Malawi

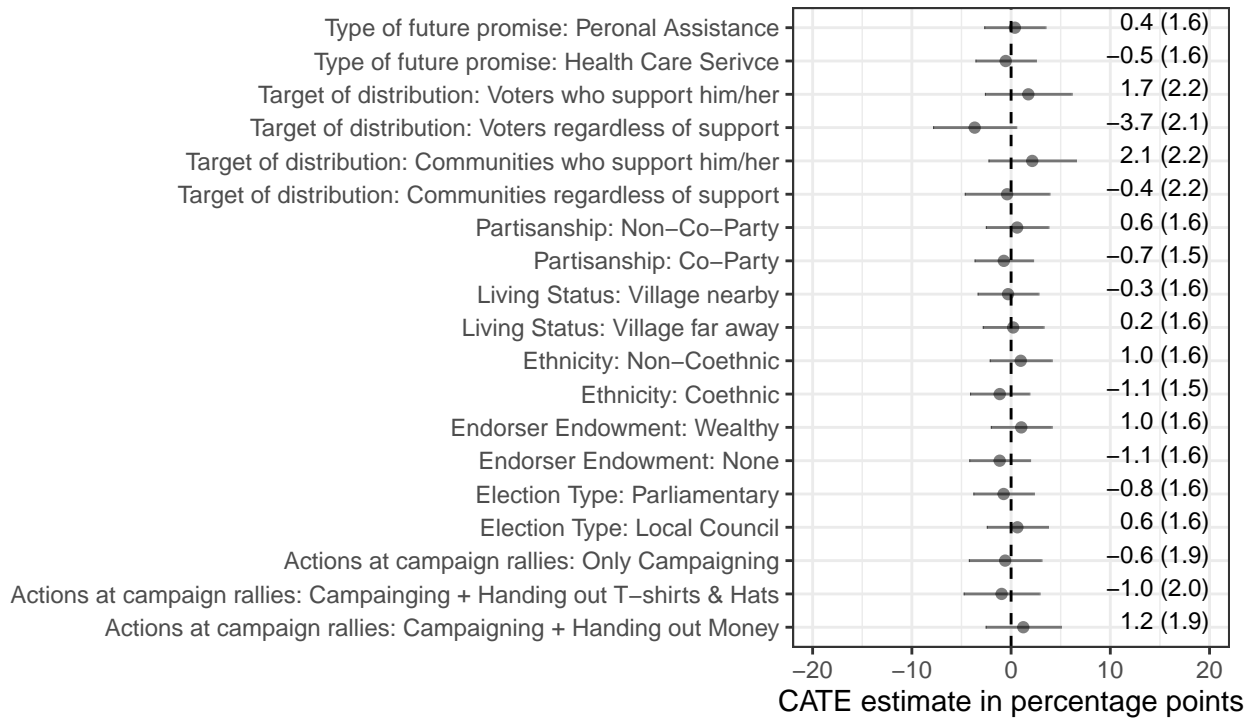


Figure A.23: Harris, Kao, and Lust (2020), Zambia

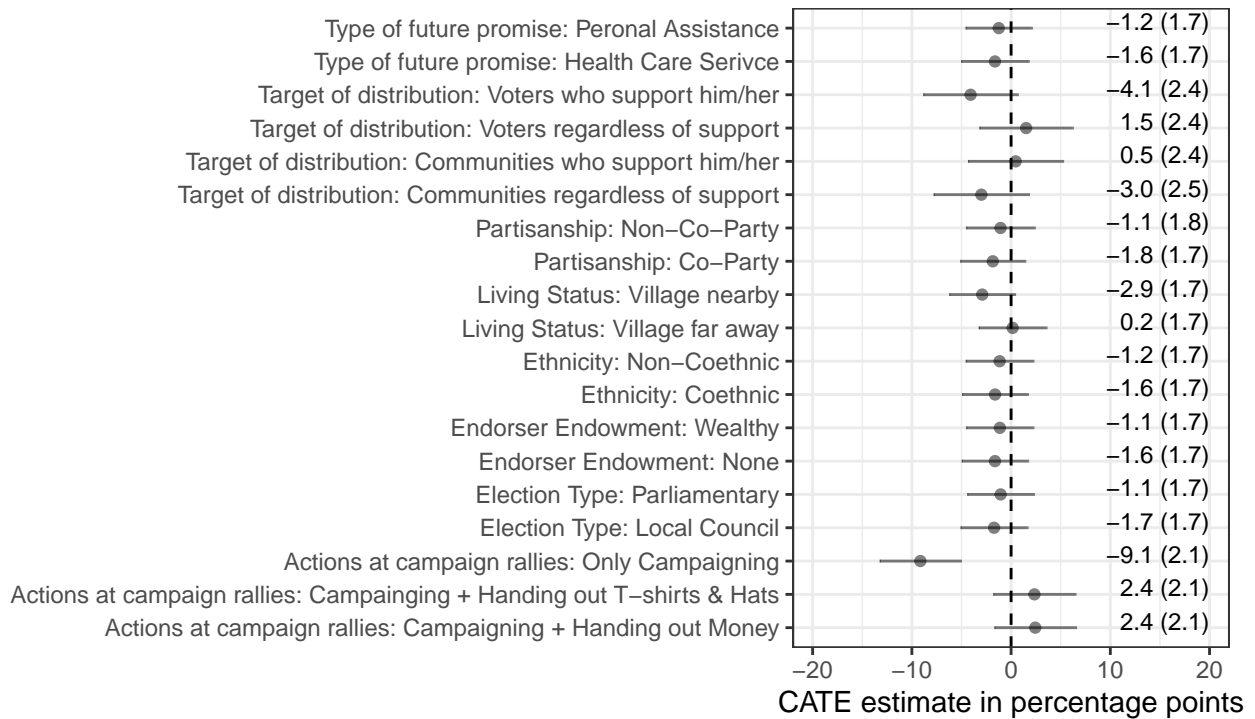


Figure A.24: Henderson, John A., Logan Dancey, Stephen N. Goggin, Geoffrey Sheagley, and Alexander G. Theodoridis (2019), USA

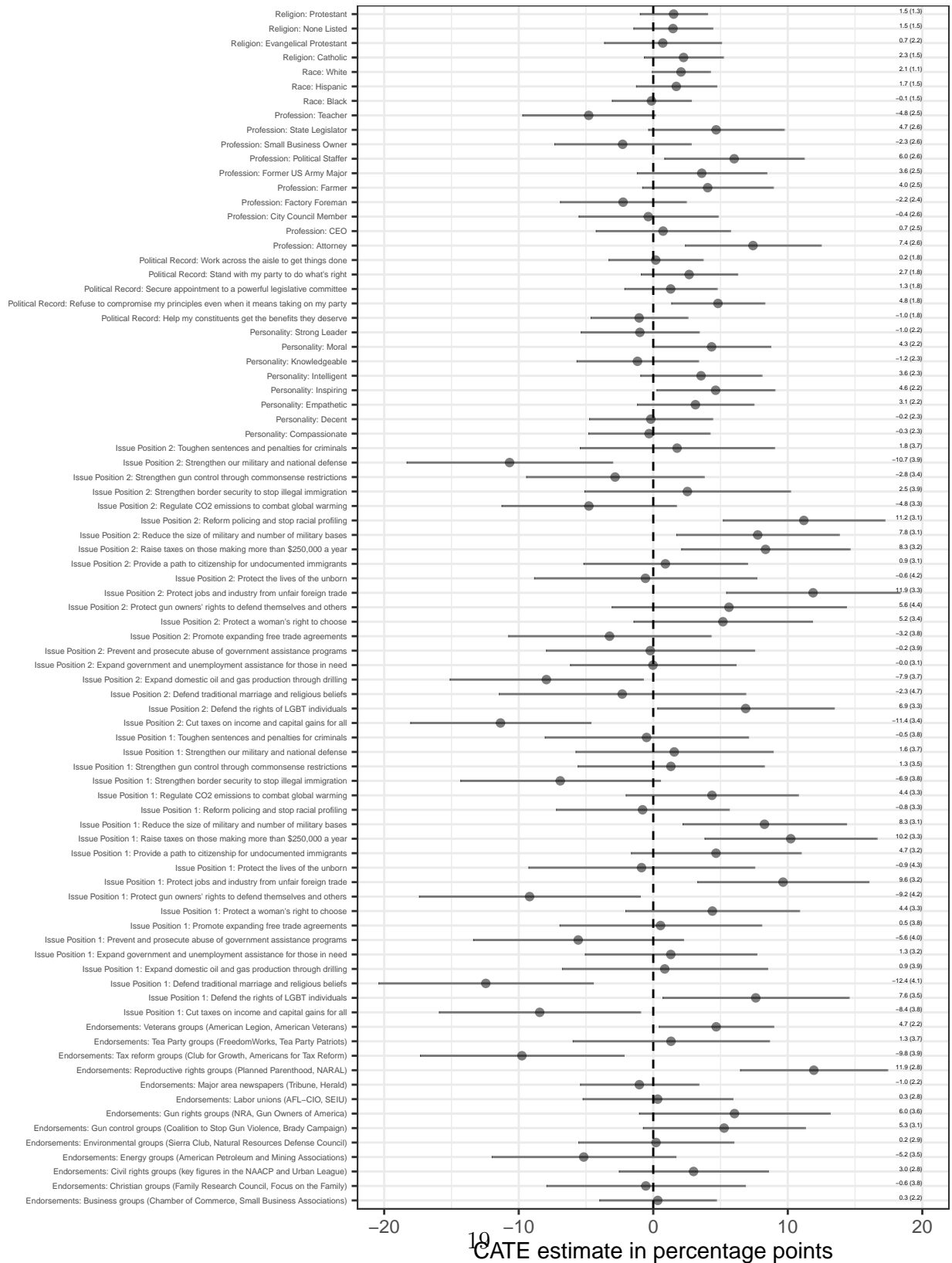


Figure A.25: Holman, Merolla, and Zechmeister (2016), USA

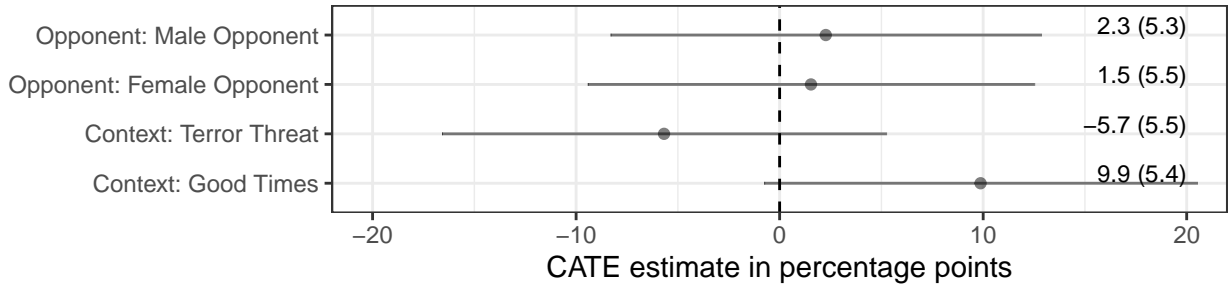


Figure A.26: Hopkins, Daniel (2014), USA

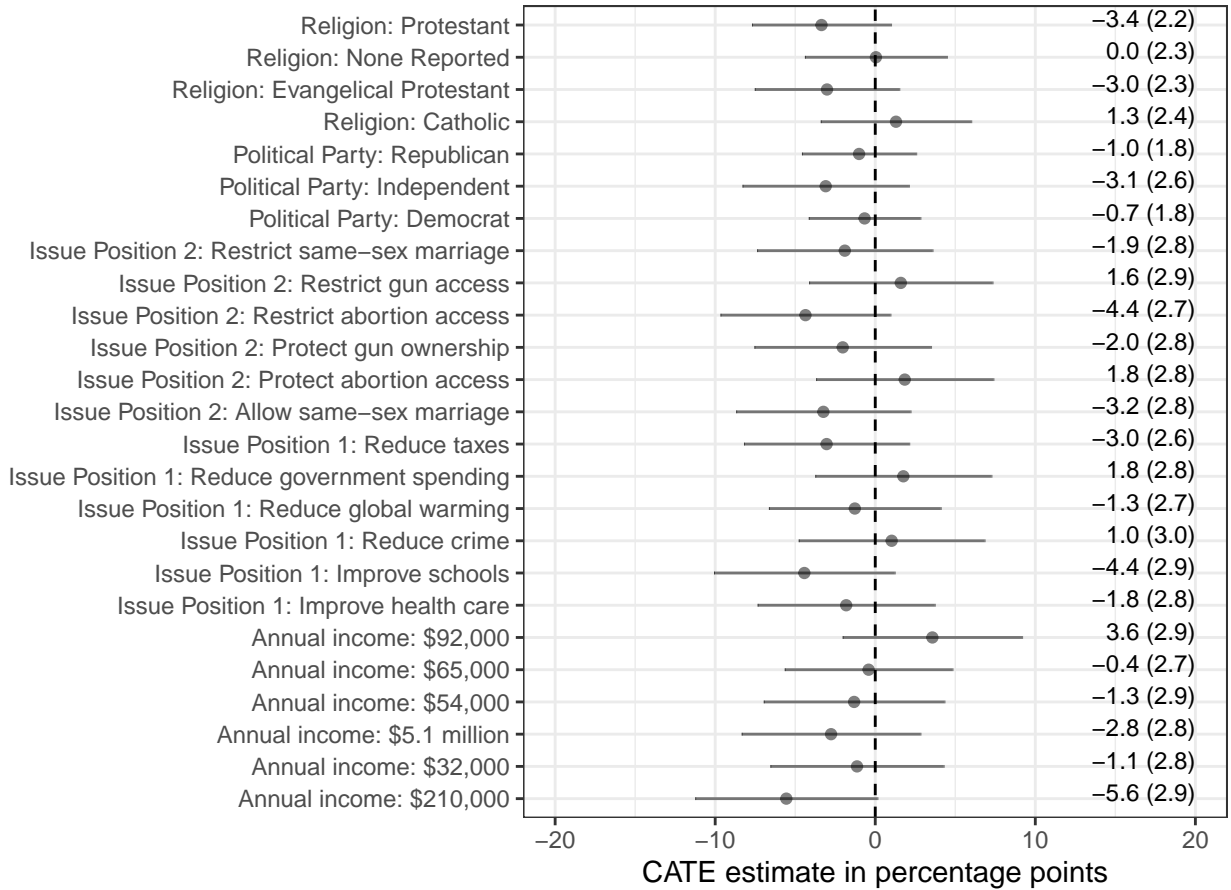


Figure A.27: Horne (2020), UK

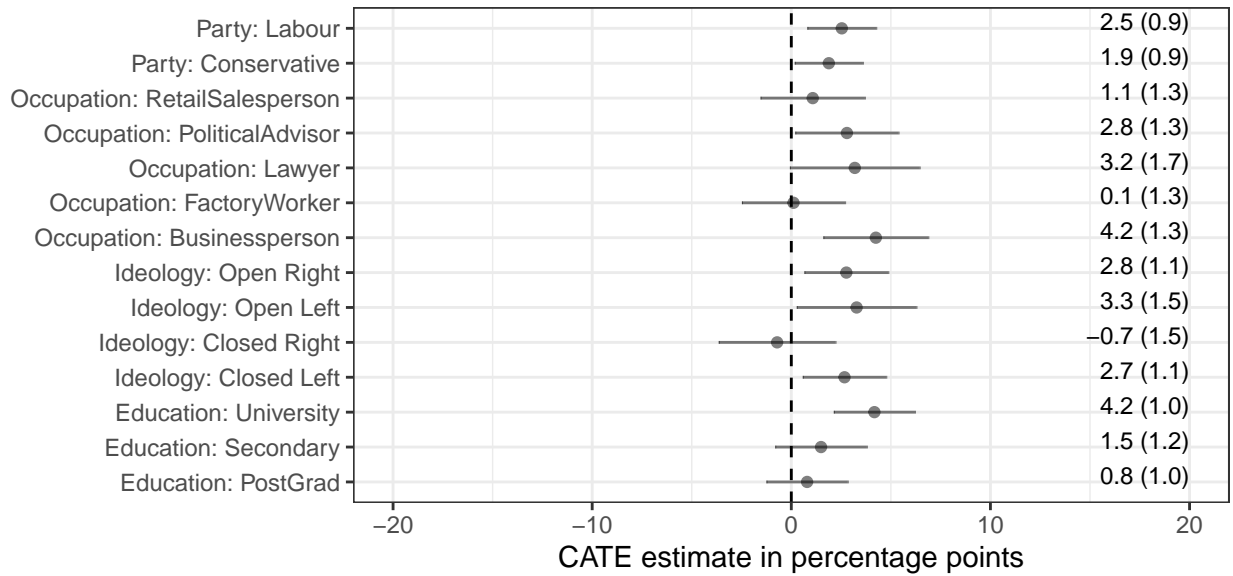


Figure A.28: Teele, Kalla, and Rosenbluth (2018), USA

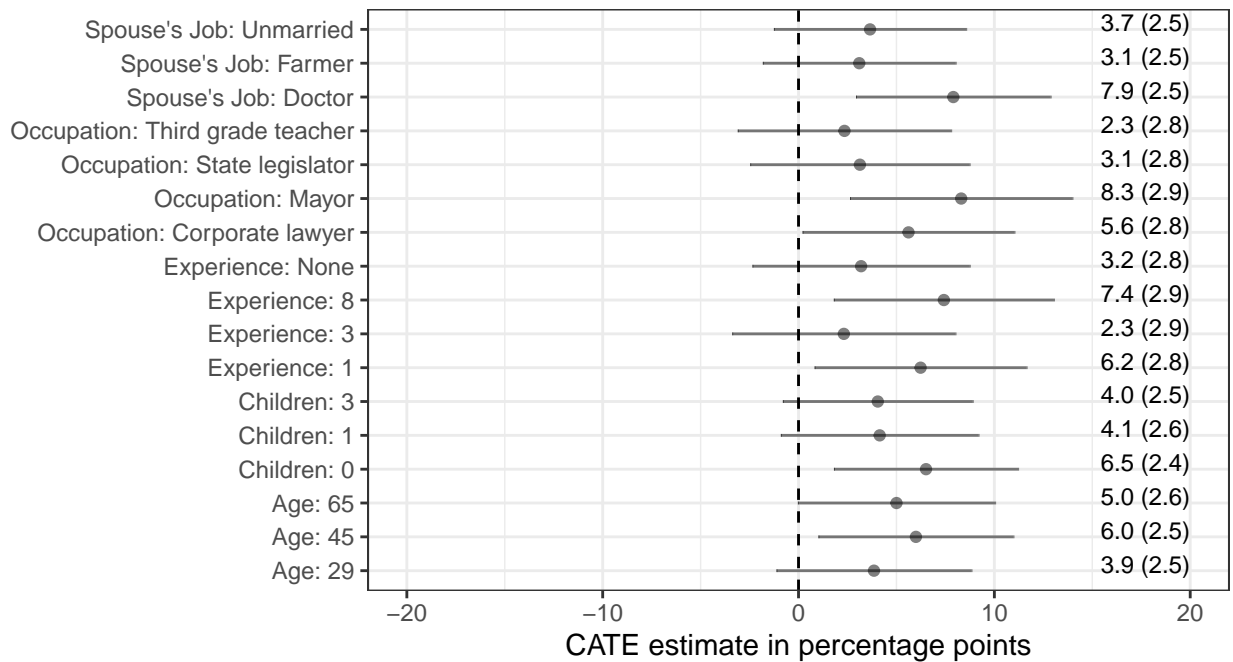


Figure A.29: Kirkland and Coppock (2017), USA - MTurk

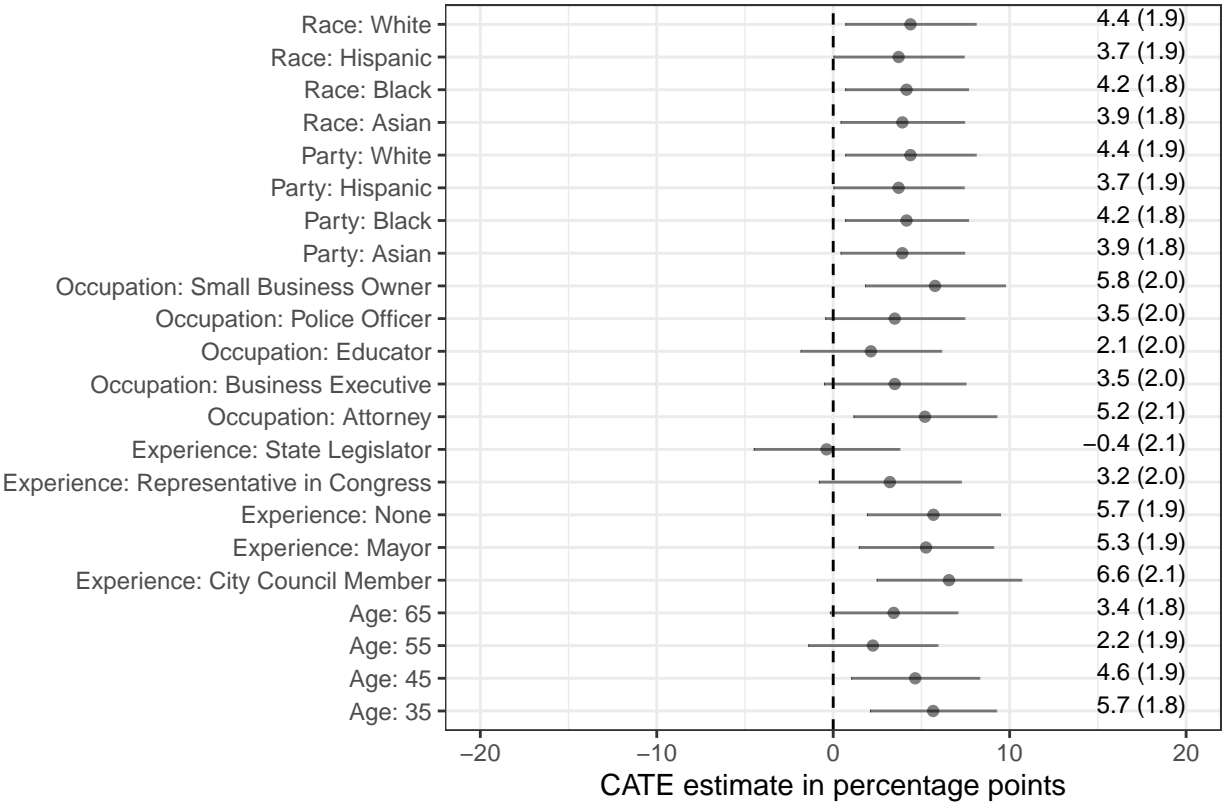


Figure A.30: Kirkland and Coppock (2017), USA - YouGov

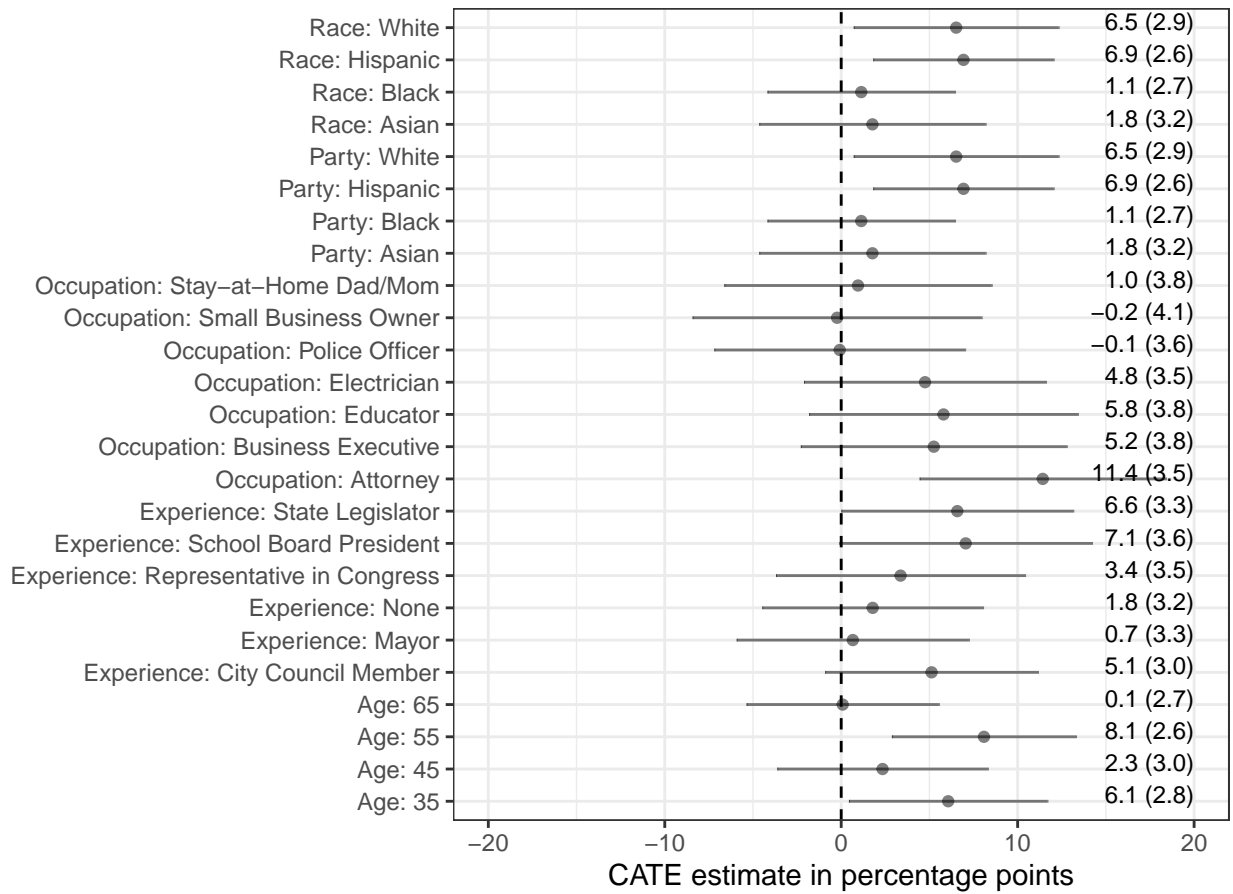


Figure A.31: Leeper and Robison (2020), US, SSI

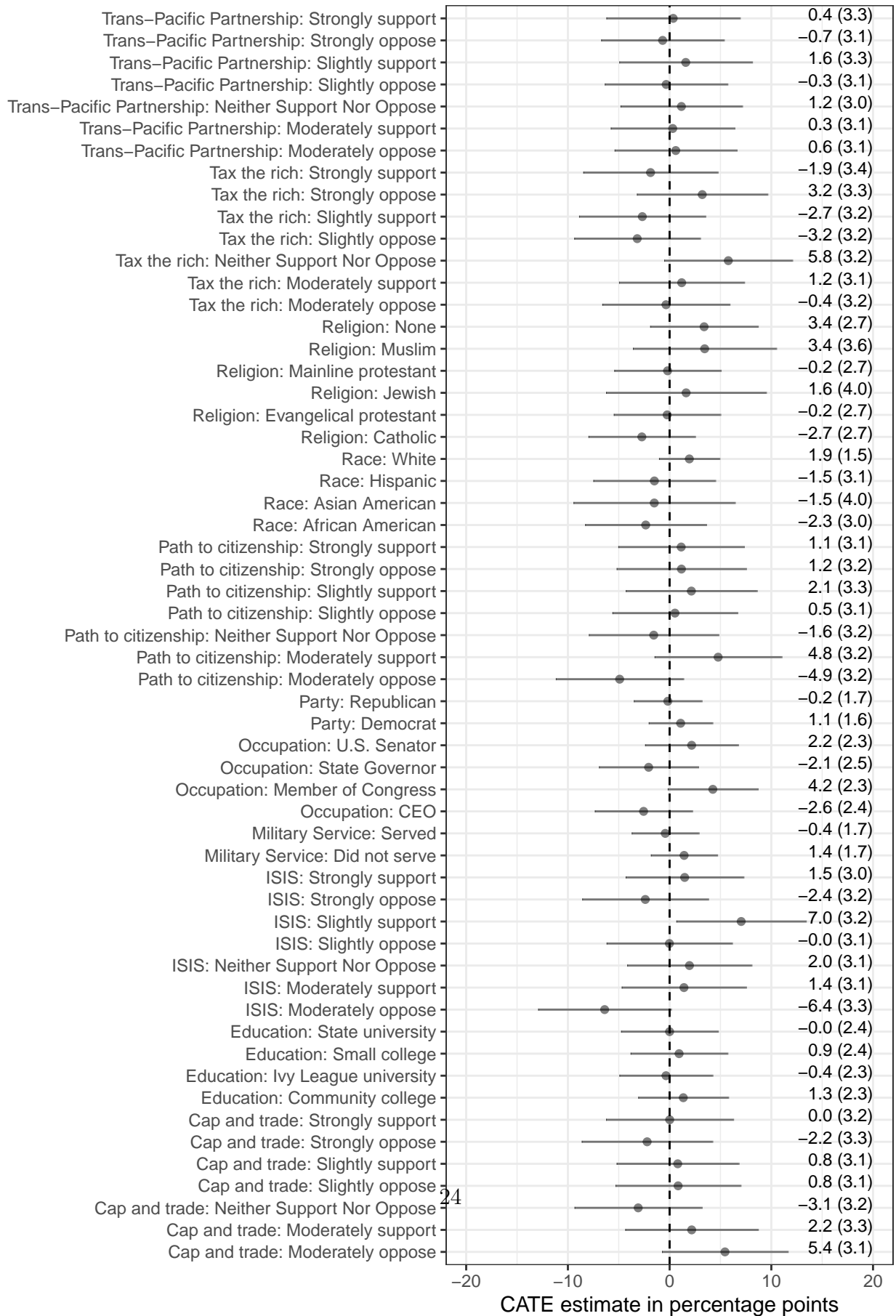


Figure A.32: Lemi (2020), USA, Qualtrics

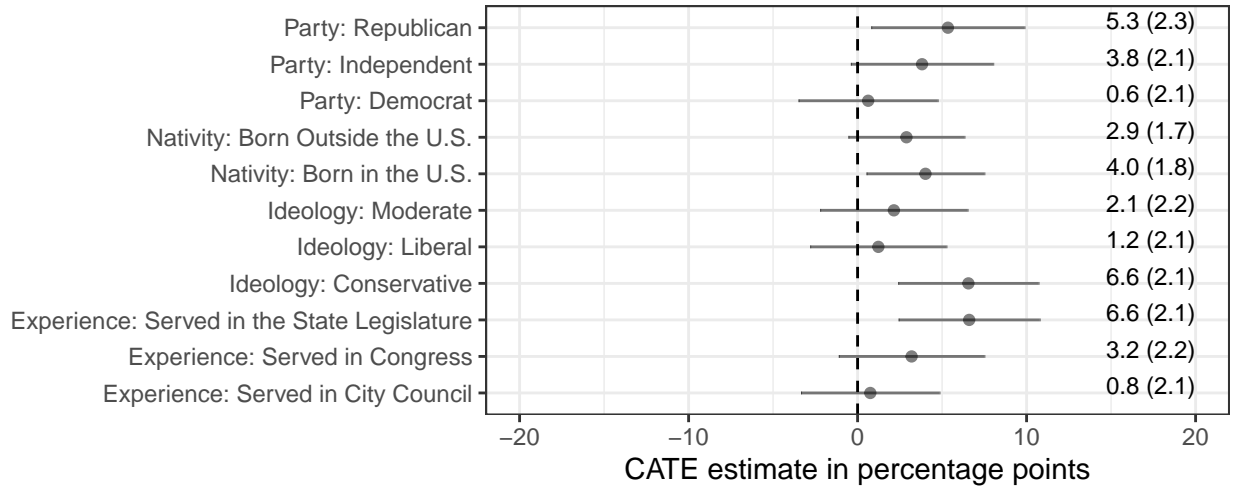


Figure A.33: Mares and Visconti (2020), Romania

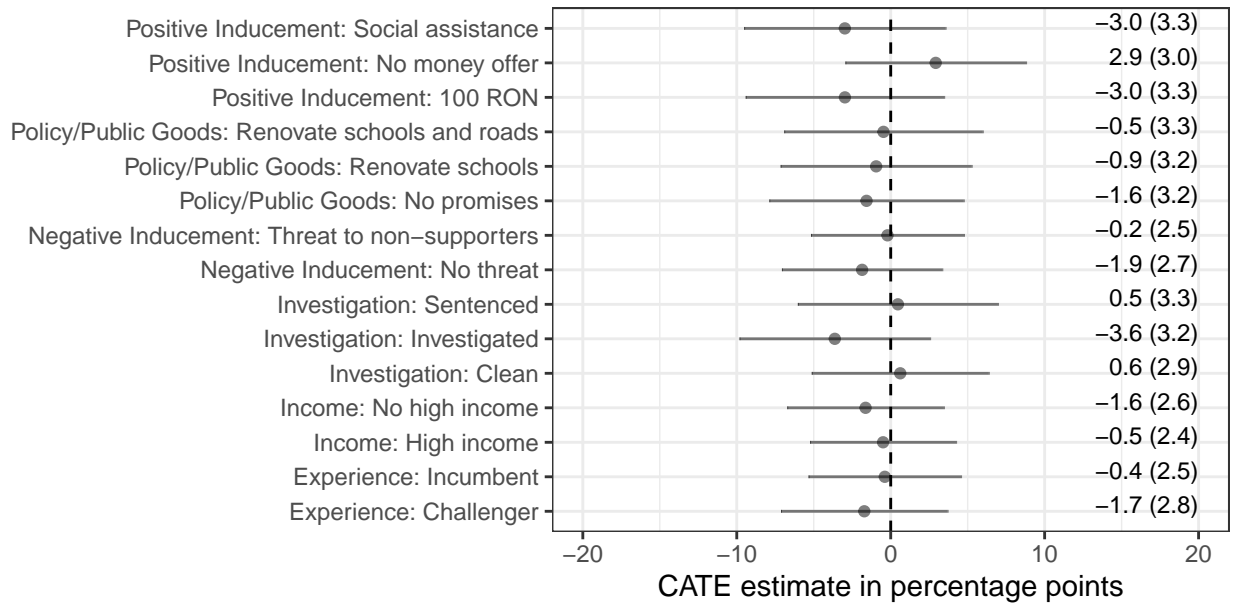


Figure A.34: Martin and Blinder (2020), UK, YouGov

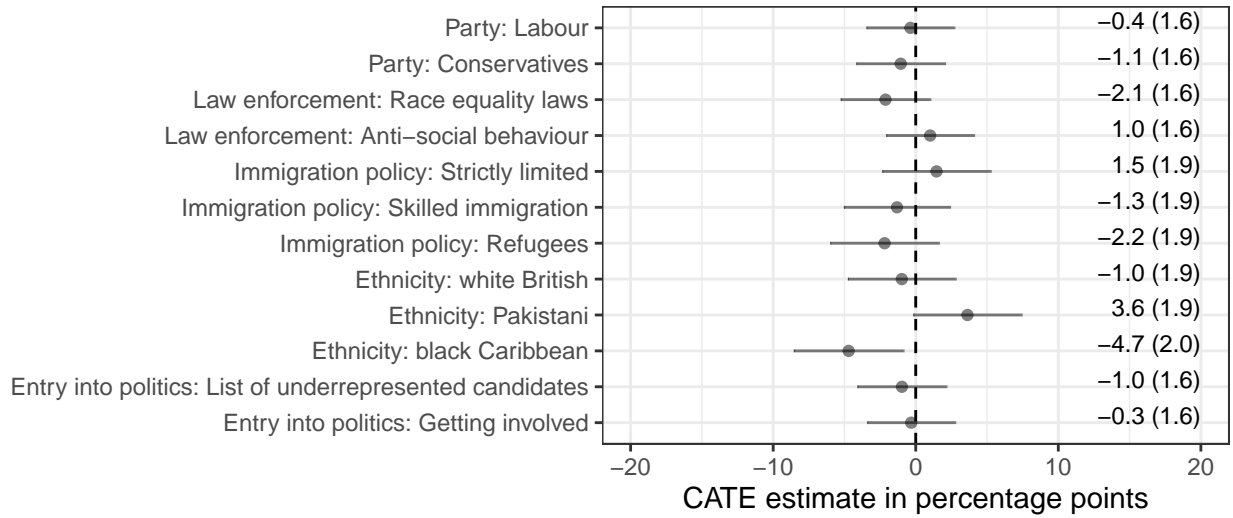


Figure A.35: Mo (2015), Florida

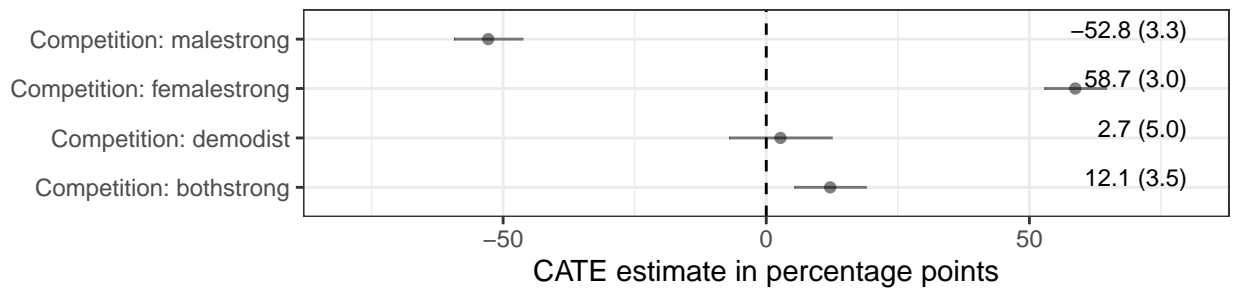


Figure A.36: Ono and Yamada (2018), Japan

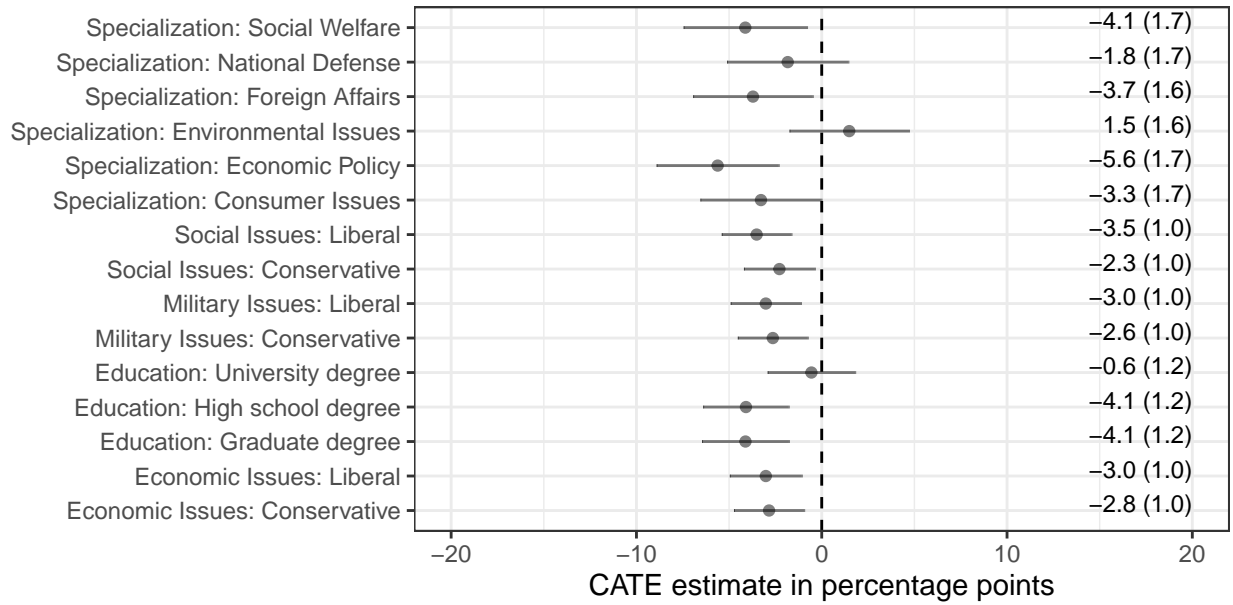


Figure A.37: Saha and Weeks (2019)

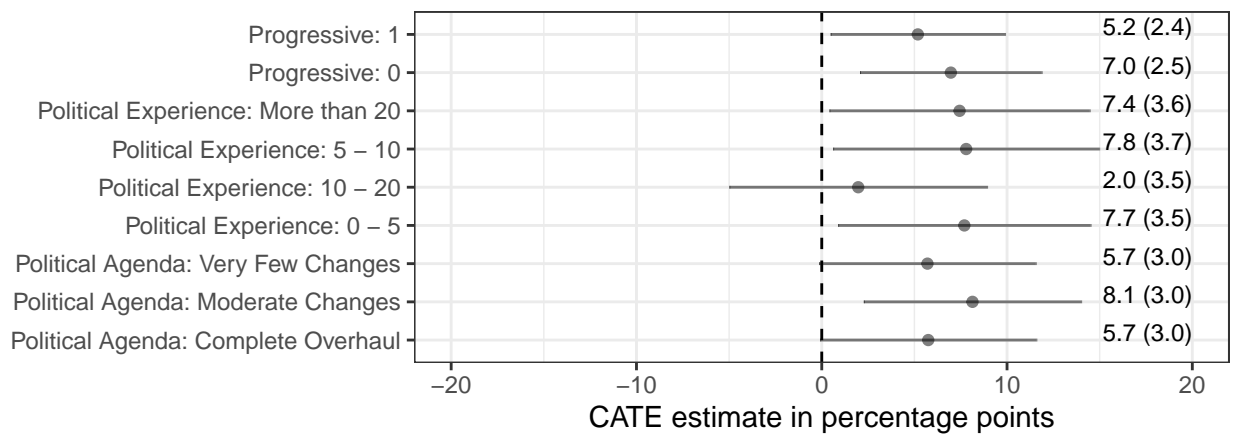


Figure A.38: Saha and Weeks (2019)

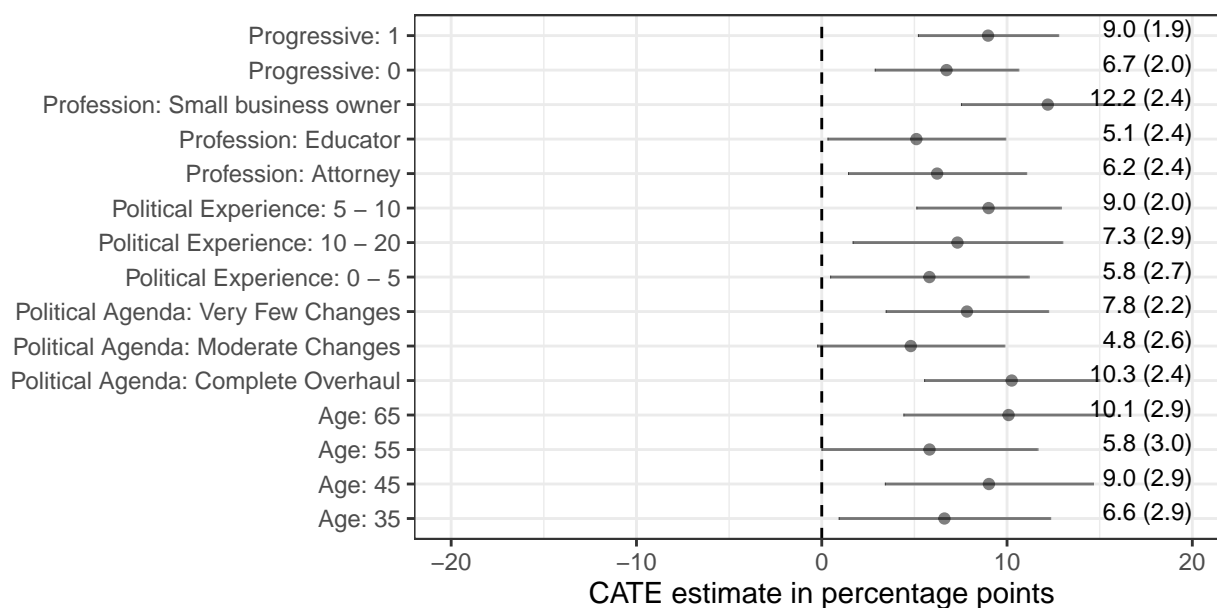


Figure A.39: Saha and Weeks (2019)

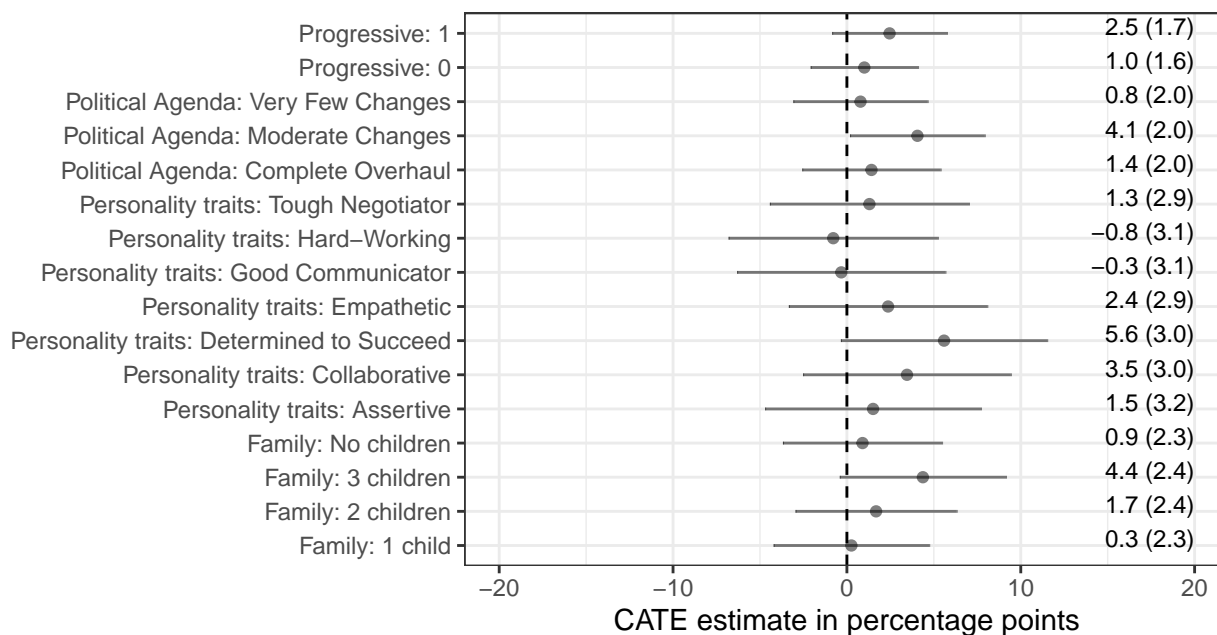


Figure A.40: Saha and Weeks (2019)

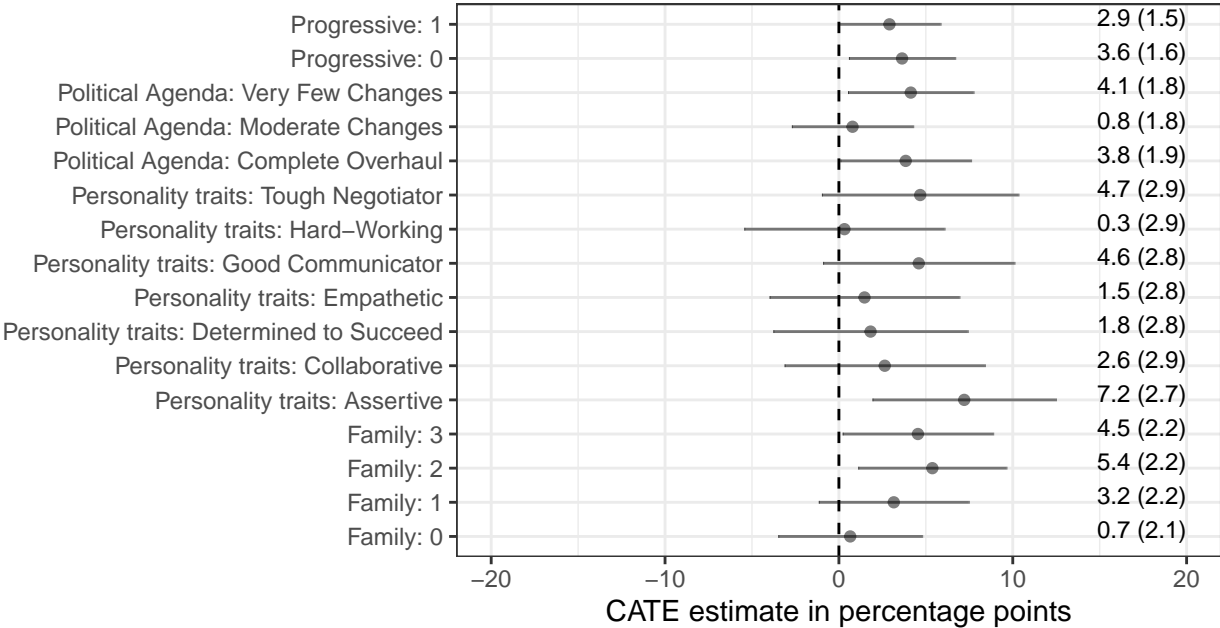


Figure A.41: Sen, Maya (2017), USA

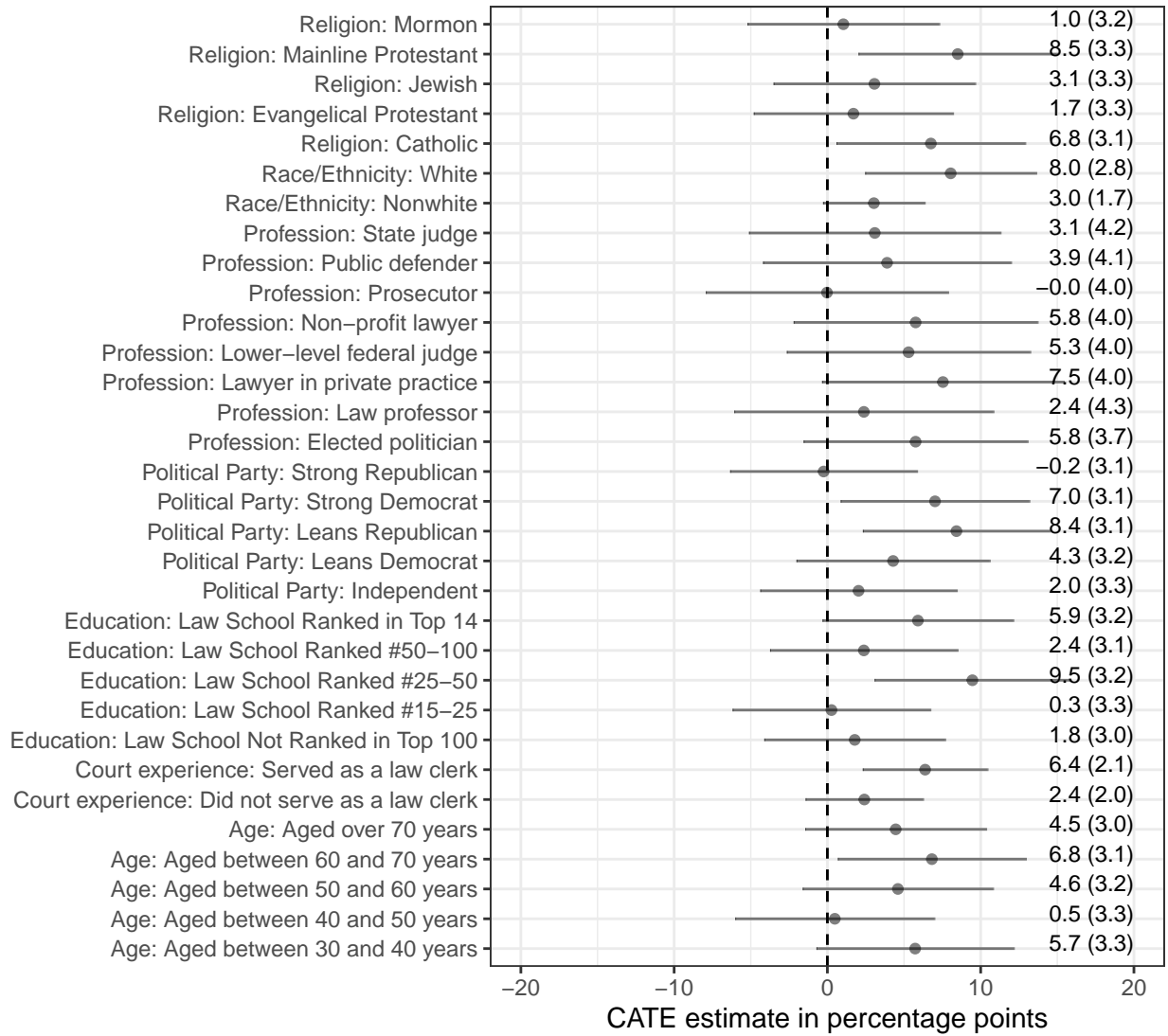


Figure A.42: Sen, Maya (2017), USA

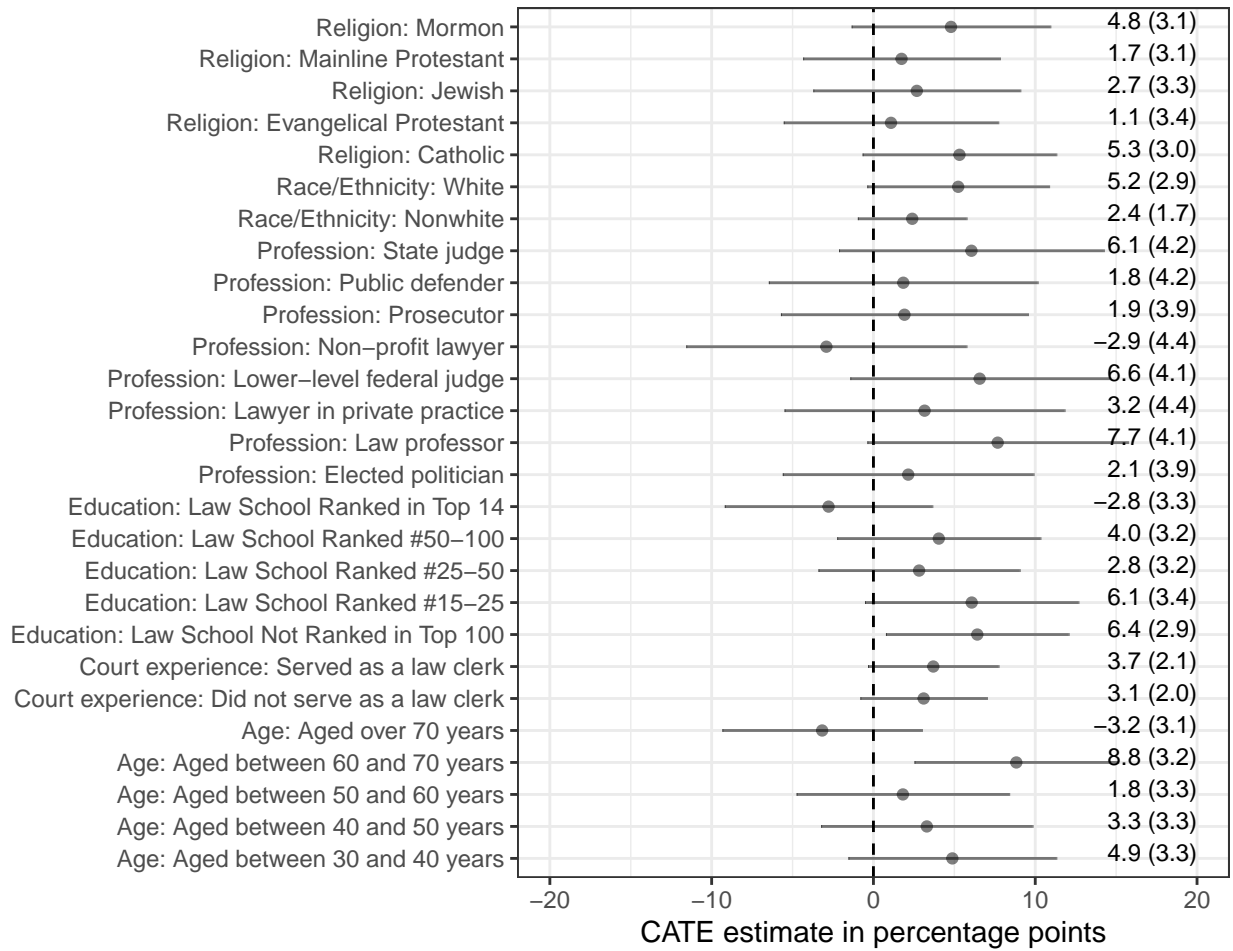


Figure A.43: Shaffner and Green (2020), YouGov Blue

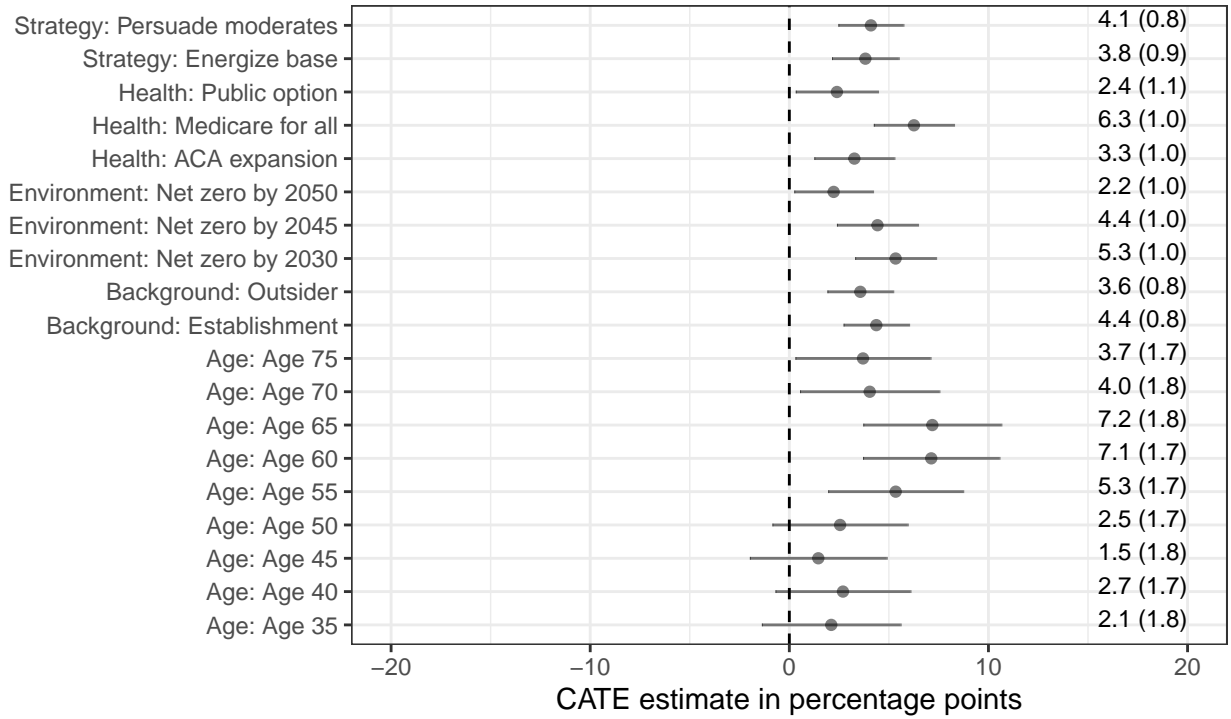


Figure A.44: Simas and Murdoch (2019), USA, Mturk

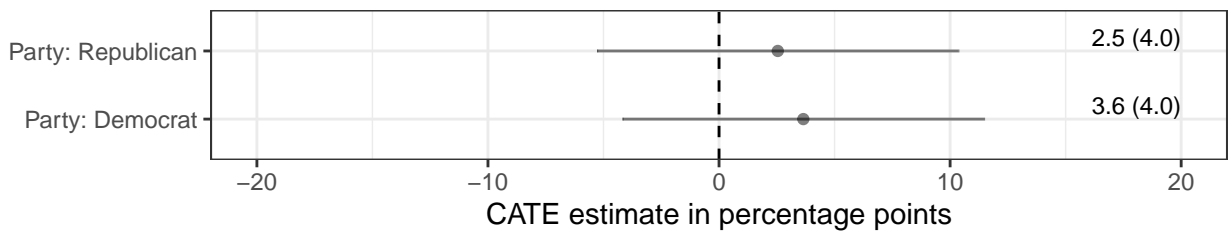
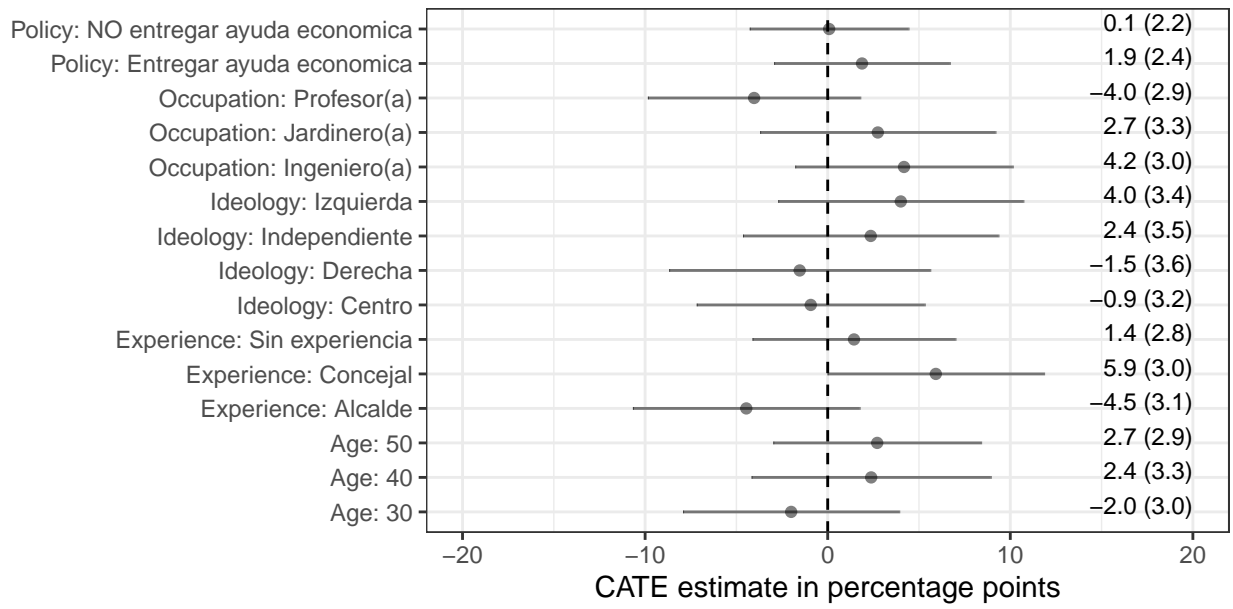


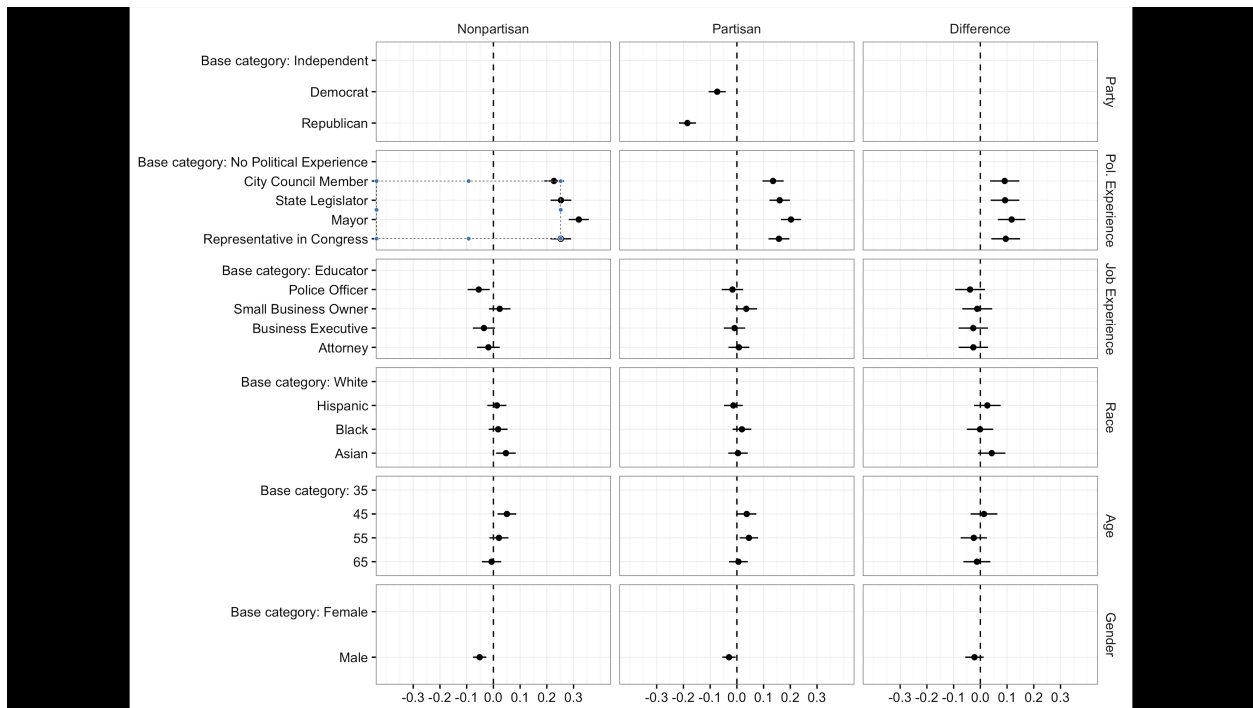
Figure A.45: Visconti (2018), Chile



B Digital measurement of coefficient estimates

Figure 1 in the main text includes estimates from nine experiments in seven papers that we were only able to obtain by digitally measuring the coefficient plots included in the published papers. In this appendix, we provide evidence that our digital measurement technique produces accurate estimates. We used the “rectangular selection” tool in MacOS’s Preview application to measure the location of coefficient estimates (and 95% confidence intervals) in pixel units (see Figure B.46). We then converted pixels into the appropriate scale.

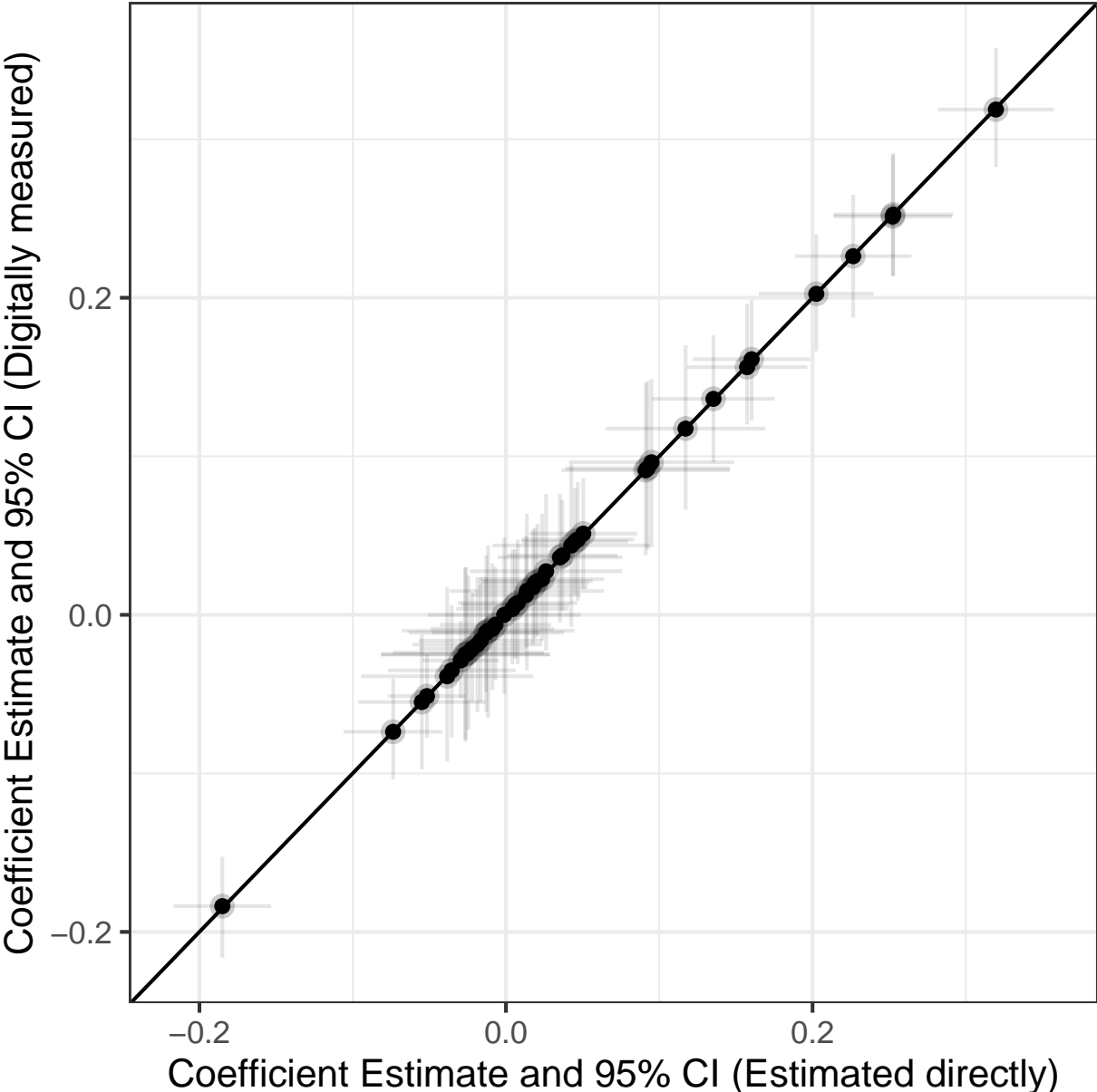
Figure B.46: Using the rectangular selection tool



To demonstrate that this procedure produces accurate estimates, we conducted a validation exercise in which we digitally measured the coefficient estimates using a study for which we had the replication dataset. Figure B.47 shows that the digitally measured coefficients from Kirkland and Coppock (2018, Figure 3) match their directly estimated counterparts quite well. That said, the precision of the method is limited by the width of the pixel,

resulting in a small amount of measurement error. The average absolute error is 0.000747, or 0.075 percentage points. The correlation of the two sets of estimates is 0.9999726.

Figure B.47: Correlation of digital measurements with direct estimates



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