

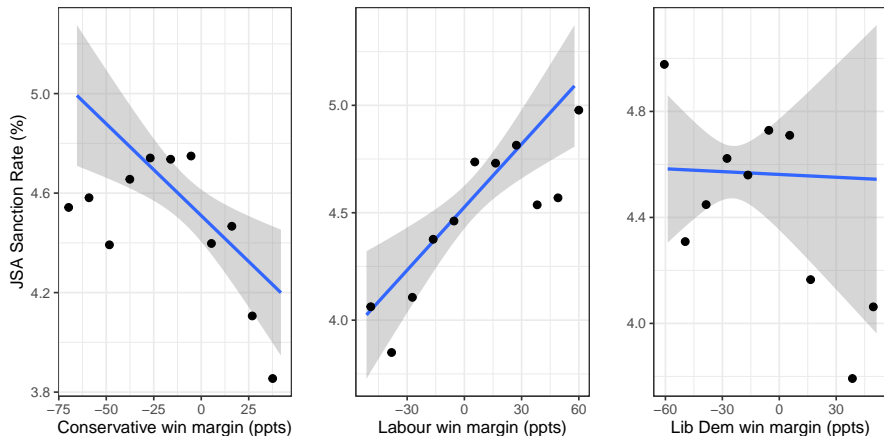
## **Making the Cut: Close Elections and Local Welfare Policy**

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Microeconometrics Working Group – 11 April 2023

- Spatial variation in exposure to welfare reforms in UK in 2010s
  - Strong correlations with party voteshares in 2010 elections
- ⇒ Does who is in charge locally matter **causally** for policy outcomes or is this just heterogeneity across areas?

## Sanction rate to Unemployment Benefits (%) and Electoral distance (ppts)



Note: dependent variable average sanctioning rate (sanc/claim) within a constituency, 2012-15

**Figure 1:** Correlation between 2010 GE win margin and sanction rate

### Research Question:

- How does political alignment affect local implementation of welfare policy?

### Empirical Setting: UK 2010 Election

- Labour government overturned by Conservative-Liberal Democrat coalition
- close elections identification: marginally government-aligned seats vs unaligned

### UK 2012 Welfare Reform

- changes to toughness of benefits system
- large increase in [sanctioning rate inequality across areas](#)

**Outcome:** sanctions to unemployment benefits

Empirical strategy centers on **RDD** based on [close elections](#)

- **RD**: compare the average rate of sanctions across constituencies that are [marginally aligned or unaligned](#) with the newly elected central government (Conservative and Liberal Democrats).
- **Diff-in-Disc**: examine discontinuities [before and after](#) reforms in 2012

- Government-aligned constituencies have **0.8 ppts (18%) lower sanction rate**
- **Driven by decrease in sanctions**, claimant numbers flat across threshold
- Concentrated in years **after 2012 reform**
- Possible mechanism: **marginal flipped Labour-to-Coalition (L2C) seats** have largest effect
  - solidify new gains

Vote buying Gagliarducci et al. (2011); Golden and Min (2013); Lindbeck and Weibull (1987); Dixit and Londregan (1996)

Politician-bureaucrat alignment Christensen et al. (2014); Dahlström and Holmgren (2019); Bach and Veit (2018); Brassiolo et al. (2020); Akhtari et al. (2022); Fiva et al. (2021),

UK partisan bias Fourniaies and Mutlu-Eren (2015); Hanretty (2021)

⇒ Evidence on partisan allocation of cuts to non-discretionary spending

Sanctions, Spending Cuts, Austerity Fetzer (2019); Brender and Drazen (2008); Alesina et al. (2012)

⇒ Understand heterogeneous implementation of reforms, regional inequality

Introduction

Institutional Setting

Empirical Strategy

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Robustness

Appendix



## Institutional Setting

- First-Past-the-Post (FPTP) system: most votes wins the seat
- Party with most seats has right to form government
- 650 constituencies
  - 533 in England,
  - 40 in Wales,
  - 59 in Scotland
  - 18 in Northern Ireland
- De facto majority can be less than 326/650 due to abstention in Northern Ireland

**Coalition Government** formed of Conservatives and Liberal Democrats (363)

Party	Vote share	Seats	Runner-up	Candidates
Conservative Party	36.89	306	190	631
Labour Party	29.66	258	159	631
Liberal Democrats	23.56	57	242	631
Scottish National Party	1.69	6	29	59
Plaid Cymru	0.57	3	6	40
Green Party	0.97	1	0	331
Other	6.65	1	6	1093

Note: England, Scotland, and Wales only.

**Table 1:** 2010 General Election Results by major party

**UB is search contingent** (not contribution or duration dependent)

## Features of UB/sanctions:

- UB: ~70 GBP/week (80 EUR) , flat over time in real terms.
- sanction = UB payments stopped, typically for 4 weeks.
- Referral from jobcentre caseworker, imposed or cancelled by separate decision maker

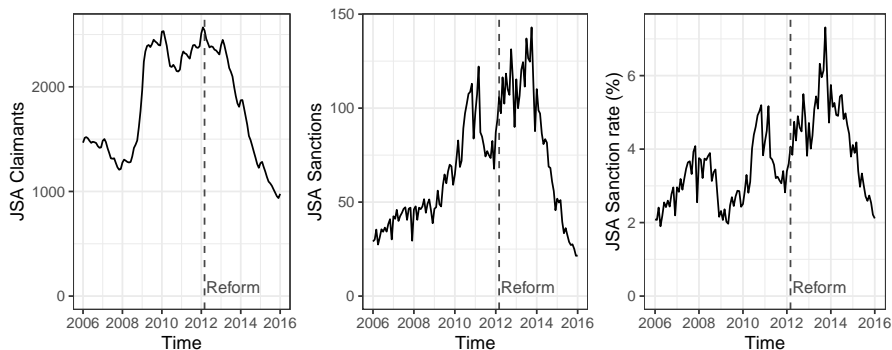
## Impact of reforms in 2012

- increase in mean, variance, and skew of  $s_{jt} = \text{sanctions}_{jt} / \text{claimants}_{jt}$
- heterogeneous increases in strictness

## Sanction Policy Changes Following 2012 Reform

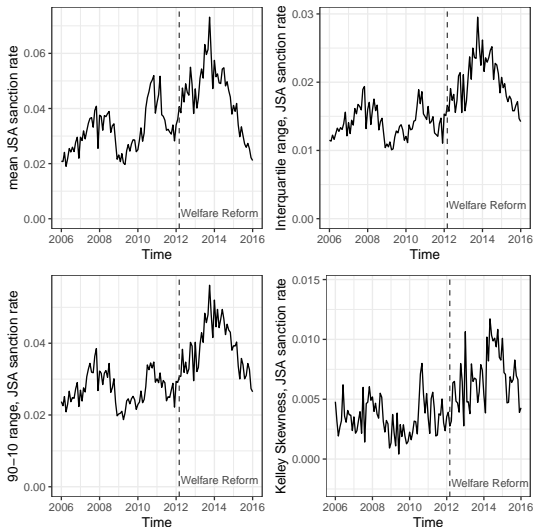
Infraction Level	Example Reasons	Old Sanction	New Sanction
Lower	Failure to attend advisor meeting Failure to attend work program	1 week	4 weeks, 13 weeks
Intermediate	Unavailable to work Ineligible search effort	No Sanction	4 weeks, 13 weeks
Higher	Refusing, voluntarily leaving work Dismissal for misconduct	1-26 weeks	13 weeks, 26 weeks, 156 weeks

## Jobseeker's Allowance claimants and sanctions



Monthly averages across constituencies. The vertical dotted lines indicate the enactment of the Welfare Reform Act in March 2012.

**Figure 2:** JSA Claimants, Sanctions, and Sanction-Claimant Ratio



**Figure 3:** Effect of Reform on Sanction Rate Moments

## Empirical Strategy



Sharp RDD. Treatment (government alignment):

$$D_i = 1(m_i \geq 0) \quad (1)$$

(2)

Potential outcomes:

$$E[Y_i(0); m] = \alpha + f(m_i) \quad (3)$$

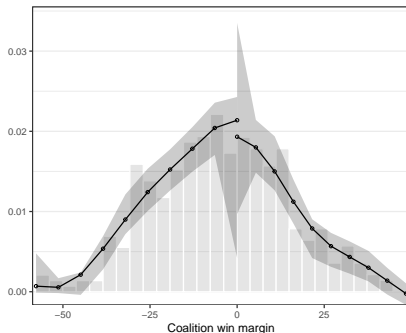
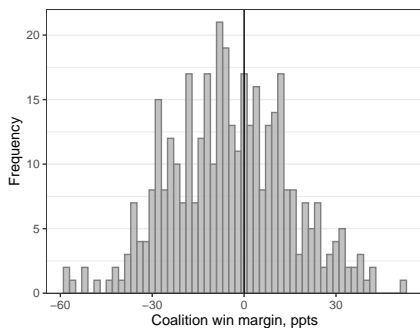
$$Y_i(1) = Y_i(0) + \beta \quad (4)$$

Parameter of interest:

$$\beta^{RD} = \lim_{m \rightarrow c^+} E[Y_i(1); m] - \lim_{m \rightarrow c^-} E[Y_i(0); m] \quad (5)$$

## Requirements:

1. no manipulation around cutoff
  - **check**: test density of forcing variable
2. smoothness of potential outcome functions at cutoff
  - **indirect check**: no other jumps in relevant socioeconomic covariates



**Figure 4:** Density and Manipulation test of coalition win margin

- 2010 Westminster general elections in England, Scotland and Wales
  - 632 single member constituencies
- **Outcome:** rate of sanctions to unemployment benefits
  - source: Department of Work and Pensions
  - monthly number of claimants and sanctions
- **Population characteristics:**
  - 2009 mid-year parliamentary constituency population estimates
  - 2009 Annual Population Survey
  - 2009 Annual Survey of Hours and Earnings

	Coalition			Labour			Difference
	N	Mean	SD	N	Mean	SD	
Sanctions							
JSA saction rate, %, post-refrom	363	4.36	1.00	258	4.73	0.99	-0.36
JSA sanctions	363	59.65	31.33	258	122.88	47.20	-63.23
JSA claimants	363	1438.84	669.32	258	2760.60	984.05	-1321.77
Election							
Conservative vote share	363	45.15	9.89	258	22.86	9.03	22.29
Libdem vote share	363	26.69	11.10	258	18.67	7.11	8.02
Labour vote share	363	20.17	10.30	258	46.47	7.73	-26.30
Flipped seats	363	0.26	0.44	258	0.02	0.14	0.24
MPs standing down	363	0.20	0.40	258	0.21	0.41	-0.01
Number of parties	363	5.42	0.69	258	5.40	0.68	0.02
Socioeconomic							
Population	363	96053.43	10837.25	258	95860.94	13233.66	192.49
Female population, %	363	51.01	0.71	258	50.96	0.89	0.06
Working age population, %	363	63.89	3.23	258	66.04	3.43	-2.15
Economic activity rate, %	363	79.01	4.27	258	73.56	5.23	5.45
Employment rate, %	363	74.02	4.94	258	66.31	6.09	7.71
Unemployment rate, %	187	7.90	2.23	240	10.27	3.10	-2.37
Median earnings	324	22451.23	3889.92	244	20699.91	3321.38	1751.32

For constituency,  $i$ , estimating equation:

$$y_i = \alpha + \beta^{RD} D_i + f_0(m_i) + f_1(m_i) + \mathbf{x}_i' \boldsymbol{\delta} + e_i \quad (6)$$

$$m_i = \begin{cases} \text{Cons}_i - \text{Labour}_i & \text{if } 1^{st}/2^{nd} \text{ contested by Cons and Labour} \\ \text{Lib Dem}_i - \text{Labour}_i & \text{if } 1^{st}/2^{nd} \text{ contested by Lib Dems and Labour} \end{cases} \quad (7)$$

- $y_i$  outcome of interest at constituency level
- $f_0, f_1$  polynomial below, above cutoff
- $m_i$  running variable, coalition distance to victory\*
- $\mathbf{x}_i$  vector of socioeconomic controls, constituency level
  - log population, % women, % working age, median earnings, % employment rate
- $\beta^{RD}$  causal parameter of interest

Estimated with bias-corrected local linear regression; CCT'14 optimal bandwidth choice.

\*Robust to alternative measures of distance (Con-Lab, Coalition-Opposition)

## Results

	Linear			Quadratic		
	(1)	(2)	(3)	(4)	(5)	(6)
Conventional	-0.659 (0.408)	-0.800** (0.345)	-0.913** (0.443)	-0.765* (0.462)	-0.849** (0.378)	-0.955** (0.486)
Robust bias-corrected	-0.783* (0.475)	<b>-0.898**</b> <b>(0.400)</b>	-0.963* (0.496)	-0.863* (0.523)	<b>-0.918**</b> <b>(0.423)</b>	-0.952* (0.538)
N	171	171	81	253	263	159
Bandwidth	12.2 $h^*$	12.8 $h^*$	6.4 $h^*/2$	20.4 $h^*$	24.12 $h^*$	12.06 $h^*/2$
Controls	×	✓	✓	×	✓	✓

In all regressions a triangular kernel is used. Robust standard errors in parentheses. Controls include log population, share of women, share of working age, median earnings, and employment rate.

**Table 2:** Outcome: mean JSA sanctioning rate (%) post-reform (2012-2015)

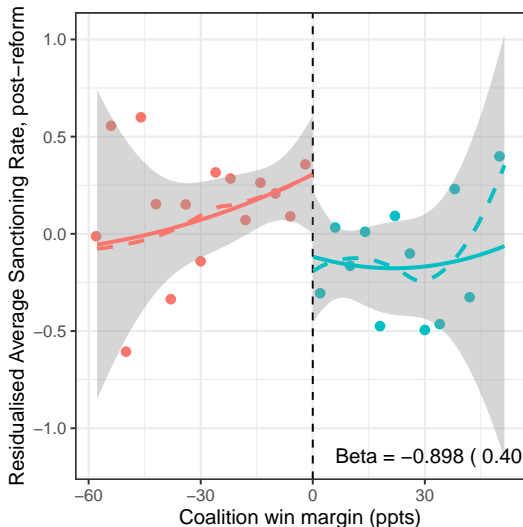
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- **Effect size:**  $-0.898 / 4.757 = -18.9\%$

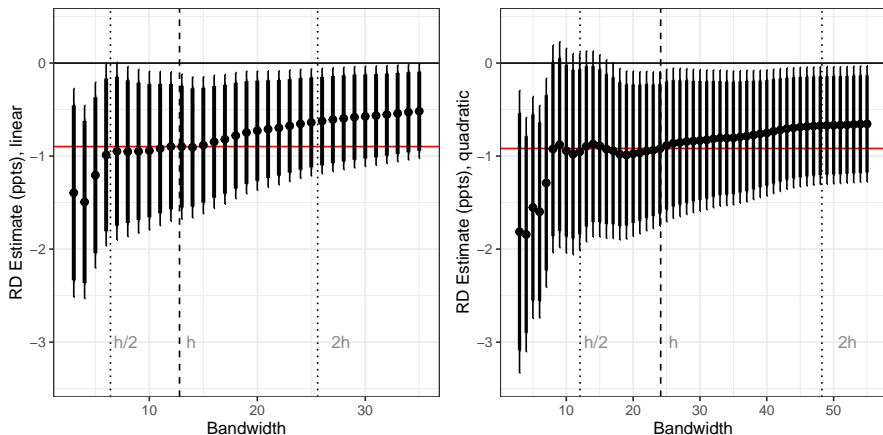




Note. Dependent variable is the residuals from a regression of average sanctioning rate on socio-economic controls: log population, share of women, share of working age, median earnings, and employment rate. Solid line is quadratic fit, dashed line is lpoly fit. Shaded area represents 95% CI.

**Figure 5:** Residualised Average Sanction Rate and Vote Margin

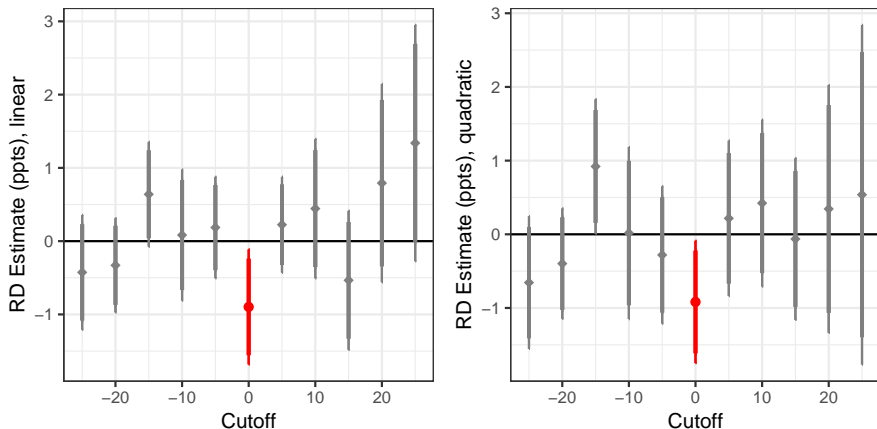
Robustness



Note: each point represents a separate RD regression. Socioeconomic controls: log population, share of women, share of working age, median earnings, and employment rate. Heavy and thin lines represent 90% and 95% CIs respectively. Bias-correction preserves  $(h/b)$  ratio

**Figure 6:** The effect of altering bandwidth choice

## Placebo Cutoffs



Note: each point represents a separate RD regression. Socioeconomic controls: log population, share of women, share of working age, median earnings, and employment rate. Heavy and thin lines represent 90% and 95% CIs respectively.

**Figure 7:** RD coefficients estimated at placebo cutoffs ( $\neq 0$ )

## Predetermined Covariates

	Popn. (1)	Women (2)	Working age (3)	Elderly (4)	Earnings (5)	Emp. (6)	Activity (7)	Unem. (8)
Con.	0.032 (0.040)	0.161 (0.285)	-1.204 (1.248)	0.679 (1.000)	-833.252 (1005.603)	3.493* (1.959)	2.677 (1.901)	-0.967 (0.852)
RBC	0.024 (0.047)	0.168 (0.344)	-1.334 (1.492)	0.764 (1.199)	-911.550 (1189.551)	3.887* (2.318)	2.720 (2.298)	-1.111 (0.987)
N	170	162	170	146	188	178	169	117
Bw	11.88	11.52	11.91	10.26	14.62	12.51	11.83	9.74
Mean(Y)	11.46	50.99	64.77	16.5	21660.14	70.86	76.76	9.16

**Table 3:** RD estimates for Predetermined Covariates

Potential Mechanism: preferential leniency to **solidfy new gains** in flipped L2C seats?

	Full Sample	Only seats held by Labour in 2005
RD estimate in ppts	-0.898** (0.400)	-1.374*** (0.475)
RD estimate in %	[-0.189]	[-0.289]
$\bar{y}(m \in [-h, 0])$	4.757	4.760
N	171	106
Bandwidth	12.8	9.45
Controls	✓	✓

Note: \* $p < 0.1$ ; \*\* $p < 0.05$ ; \*\*\* $p < 0.01$ . The dependent variable is average JSA sanction rate, post-reform. In both regressions a triangular kernel is used. Robust standard errors in parentheses. Controls include log population, share of women, share of working age, median earnings, and employment rate.

**Table 4:** RD Estimates in Full Sample and 2005 Labour Seats Subsample

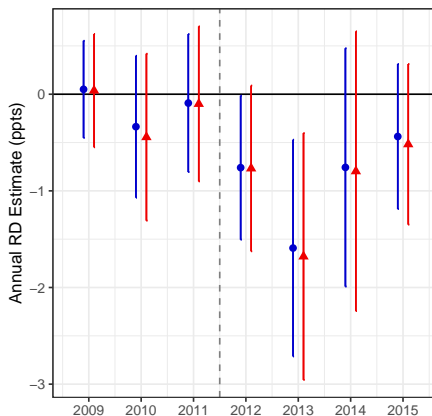
### **Jobseeker/Firm behaviour might internalise partisan effects at $c = 0$**

- Could create a discontinuity in search effort, unemployment duration (etc)
- Doesn't seem consistent with continuity in economic variables

### **Constituency control is fixed 2010-2015**

- Time variation in discontinuities lines up with reform (diff-in-disc)
- differences out? pre:2010/11, post: 2012-15

## "Diff-in-Disc": RD estimates by year



Note: Blue = linear, Red = Quadratic. Each point represents a separate RD regression. Socio-economic controls: log population, share of women, share of working age, median earnings, and employment rate. Heavy and thin lines represent 90% and 95% CIs respectively.

**Figure 8:** Dynamic RD Estimates



### **If close-election creates problematic discontinuities**

- Could take [search, unemployment spell information](#) from UKHLS panel

### **Mechanism/Further evidence: constituencies nested in council districts**

- (MP, District Council) → Employment Offices

### **Council alignment switches**

- 300 councils, examine effect of [council alignment switches](#) on sanction rates?
- Staggered DiD, Fourniaies and Mutlu-Eren (2015) identification: council and national elections in different years creates alignment switches

### **Model?**

- principal-agent set up

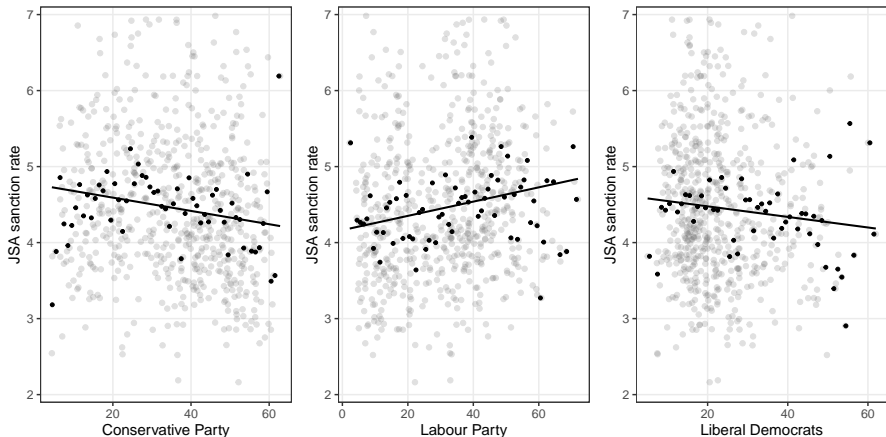
- Partisan bias at play in non-discretionary spending cuts
- **Alignment between MP and central government matters** for UB sanctions  
~ 20 percent drop in sanctioning rate at cutoff
- **Effect is strongest in marginal L2C seats** (solidifying new gains)  
~50 percent larger effect size in Labour-to-Coalition seats

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Thanks!

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## Voteshares and Sanction Rates



**Figure 9:** Voteshares and Sanction Rates

	2010 (1)	2011 (2)	2012 (3)	2013 (4)	2014 (5)	2015 (6)
RD estimate	-0.336	-0.092	-0.760**	-1.592***	-0.757	-0.438
(se)	(0.374)	(0.364)	(0.380)	(0.572)	(0.629)	(0.383)
RD in %	[-0.087]	[-0.025]	[-0.175]	[-0.293]	[-0.153]	[-0.140]
N	130	152	186	151	178	162
Bandwidth	9.58	11.55	14.35	11.41	13.54	12.39
Controls	✓	✓	✓	✓	✓	✓
$\bar{y}(m \in [-h, 0])$	3.88	3.65	4.34	5.43	4.96	3.14

Note: \* $p < 0.1$ ; \*\* $p < 0.05$ ; \*\*\* $p < 0.01$ . The dependent variable is average JSA sanction rate in a given year. In all regressions a triangular kernel is used. Robust standard errors in parentheses. Controls include log population, share of women, share of working age, median earnings, and employment rate.

**Table 5:** Baseline RD Estimates by Year

	Coalition-Labour (1)	Coalition-Opposition (2)	Conservative-Labour (3)	Lib Dem-Labour (4)
Conventional	-0.800** (0.345)	-0.780** (0.338)	-1.089** (0.440)	-0.681 (0.684)
Robust bias-corrected	-0.898** (0.400)	-0.865** (0.393)	-1.224** (0.520)	-0.829 (0.927)
N	171	181	114	16
Bandwidth	12.8	13.3	10.69	5.57
Controls	✓	✓	✓	✓

Note: \* $p < 0.1$ ; \*\* $p < 0.05$ ; \*\*\* $p < 0.01$ . The dependent variable is average JSA sanction rate in the post-reform period. In all regressions a triangular kernel is used. Robust standard errors in parentheses. Controls include log population, share of women, share of working age, median earnings, and employment rate.

**Table 6:** RD estimates of alternative races on JSA sanction rate

- Akhtari, M., D. Moreira, and L. Trucco (2022). Political Turnover, Bureaucratic Turnover, and the Quality of Public Services. *American Economic Review* 112(2), 442–493.
- Alesina, A., D. Carloni, and G. Lecce (2012). The Electoral Consequences of Large Fiscal Adjustments. In *Fiscal policy after the financial crisis*, pp. 531–570. University of Chicago Press.
- Bach, T. and S. Veit (2018). The Determinants of Promotion to High Public Office in Germany: Partisan Loyalty, Political Craft, or Managerial Competencies? *Journal of Public Administration Research and Theory* 28(2), 254–269.
- Brassiolo, P., R. Estrada, and G. Fajardo (2020). My (Running) Mate, the Mayor: Political Ties and Access to Public Sector Jobs in Ecuador. *Journal of Public Economics* 191, 104286.
- Brender, A. and A. Drazen (2008). How Do Budget Deficits and Economic Growth Affect Reelection Prospects? Evidence from a Large Panel of Countries. *American Economic Review* 98(5), 2203–2220.
- Christensen, J. G., R. Klemmensen, and N. Opstrup (2014). Politicization and the Replacement of Top Civil Servants in Denmark. *Governance* 27(2), 215–241.
- Dahlström, C. and M. Holmgren (2019). The Political Dynamics of Bureaucratic Turnover. *British Journal of Political Science* 49(3), 823–836.
- Dixit, A. and J. Londregan (1996). The Determinants of Success of Special Interests in Redistributive Politics. *the Journal of Politics* 58(4), 1132–1155.
- Fetzer, T. (2019). Did Austerity Cause Brexit? *American Economic Review* 109(11), 3849–86.
- Fiva, J. H., B. Geys, T.-R. Heggedal, and R. Sørensen (2021). Political Alignment and Bureaucratic Pay. *Journal of Public Administration Research and Theory* 31(3), 596–615.
- Fourinaies, A. and H. Mutlu-Eren (2015). English Bacon: Copartisan Bias in Intergovernmental Grant Allocation in England. *The Journal of Politics* 77(3), 805–817.
- Gagliarducci, S., T. Nannicini, and P. Naticchioni (2011). Electoral Rules and Politicians' Behavior: A Micro Test. *American Economic Journal: Economic Policy* 3(3), 144–174.
- Golden, M. and B. Min (2013). Distributive Politics Around the World. *Annual Review of Political Science* 16, 73–99.
- Hanretty, C. (2021). The Pork Barrel Politics of the Towns Fund. *The Political Quarterly* 92(1), 7–13.
- Lindbeck, A. and J. W. Weibull (1987). Balanced-Budget Redistribution as the Outcome of Political Competition. *Public choice* 52, 273–297.