

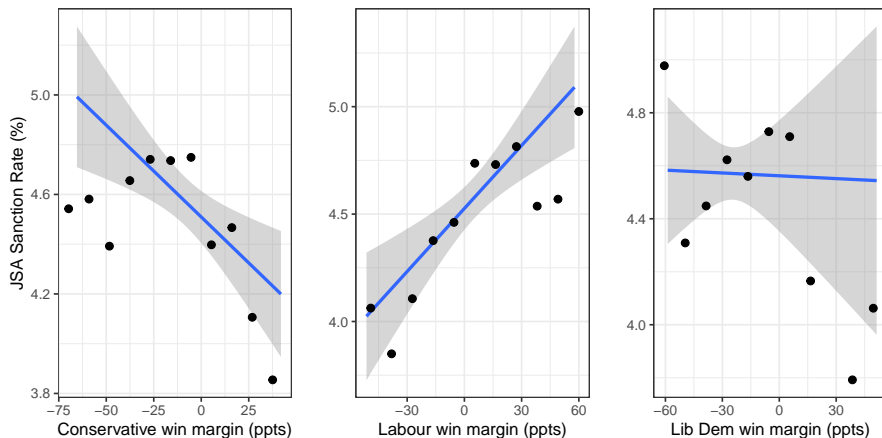
Making the Cut: Close Elections and Local Welfare Policy

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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
- \Rightarrow 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

- Lit. points to other partisan correlations in spending allocation, e.g. Towns Fund

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 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 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

Results

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 NI

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 UI/sanctions:

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

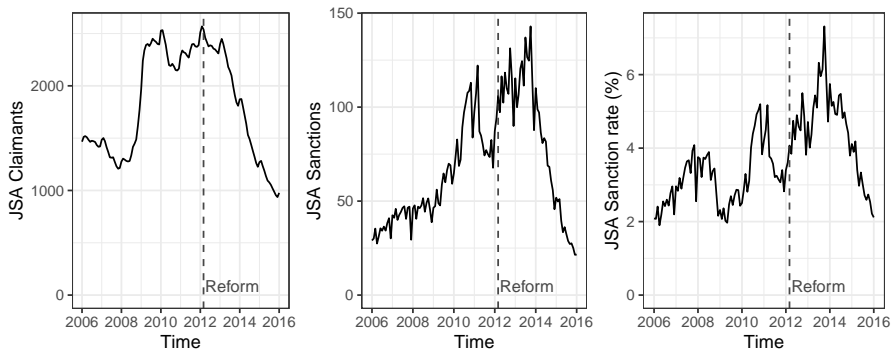
Impact of reforms

- increase in mean, variance, and skew of s_{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

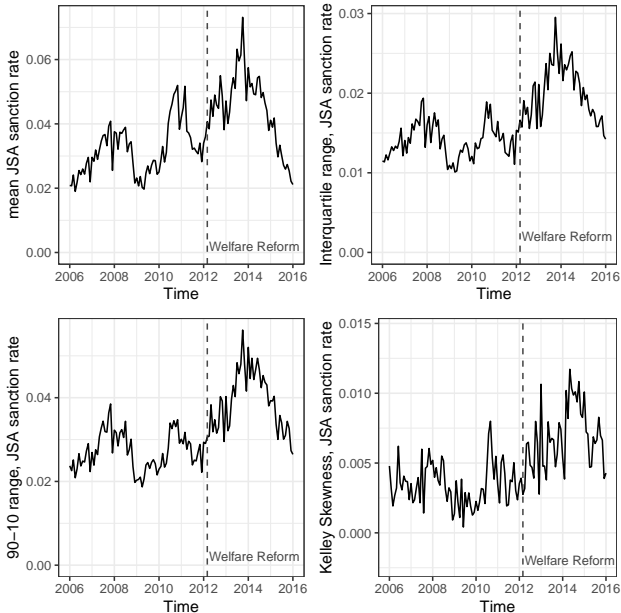


Figure 3: Effect of Reform on Sanction Rate Moments

Empirical Strategy

Standard RDD setting. Treatment:

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

(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 PO functions at cutoff
 - indirect check: no other jumps in relevant socioeconomic covariates

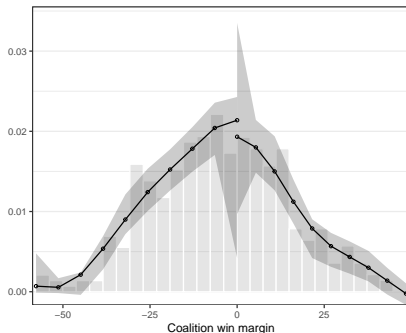
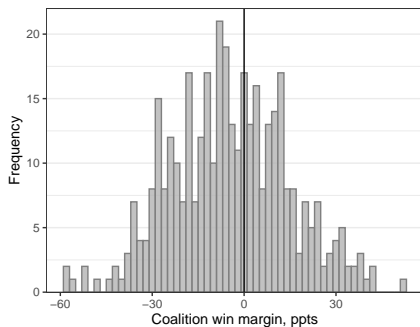


Figure 4: Density and Manipulation test of coalition win margin

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

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
- \mathbf{x}_i vector of socioeconomic controls, constituency level
 - log population, % women, % working age, median earnings, % employment rate
- β^{RD} causal parameter of interest

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

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)	-0.898** (0.400)	-0.963* (0.496)	-0.863* (0.523)	-0.918** (0.423)	-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.

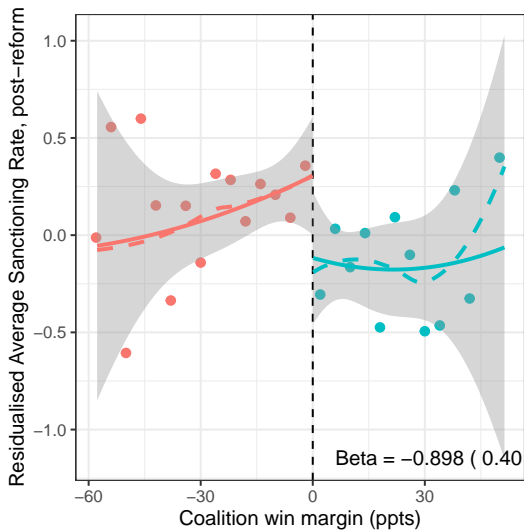
Table 2: Outcome: mean JSA sanctioning rate (%) post-reform (2012-2015)

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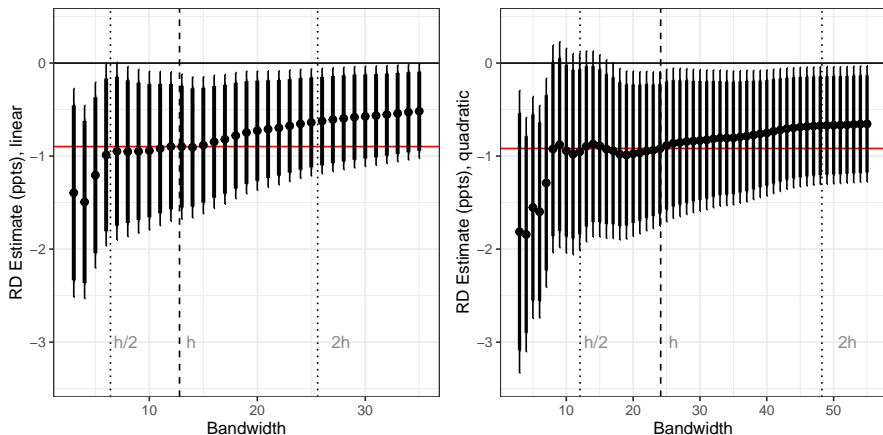
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- **Effect size:** $-0.898 / 4.757 = -18.9\%$



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 lpolynomial fit. Shaded area represents 95% CI.

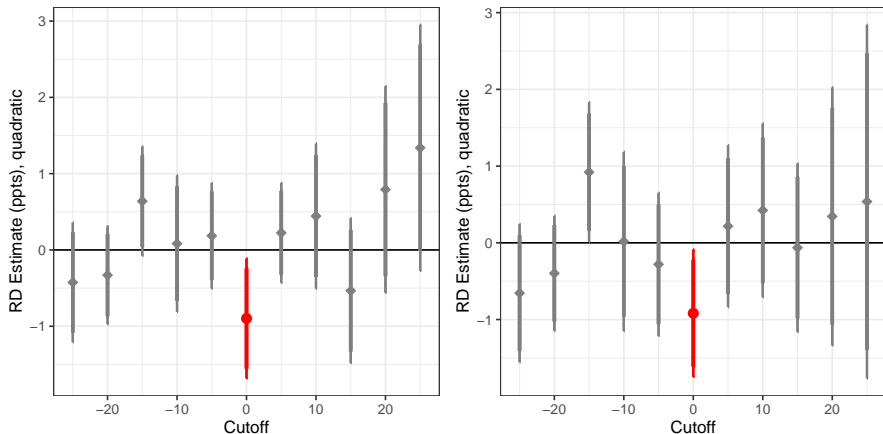
Robustness



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 preserved (h/b) ratio

Figure 5: 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 6: RD coefficients estimated at placebo cutoffs ($\neq 0$)

	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 **solidify 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	✓	✓

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

Note: 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.

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

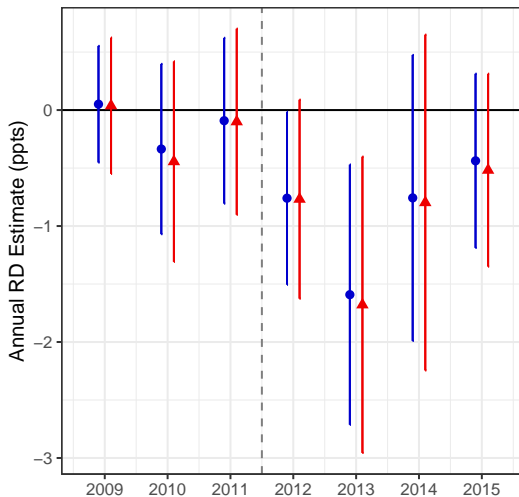


Figure 7: Dynamic RD Estimates

- Could take search, unemployment spell information from UKHLS panel
- around 300 councils, examine effect of council alignment on district sanction rates? (Staggered DiD, Fourirnaies and Mutlu-Eren (2015))

- **Alignment between MP and central government matters** for sanctions to unemployment benefits \sim 20 percent drop in sanctioning rate at cutoff
- **Effect is strongest in marginal L2C seats** (solidifying new gains) 50 percent larger effect size

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Thanks!

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	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

Table 5: Caption

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