

# Seeing the Economy with Colored Glasses: Partisanship in Macro and (not in) Micro Expectations

Kyung Woong Koh<sup>1</sup>, Adrian Monninger<sup>1</sup>, and Tao Wang<sup>2</sup>

<sup>1</sup>Johns Hopkins University

<sup>2</sup>Bank of Canada

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# Motivation: Partisan Macro Expectations

U.S. households' macro expectations saw partisan switches around presidential turnover

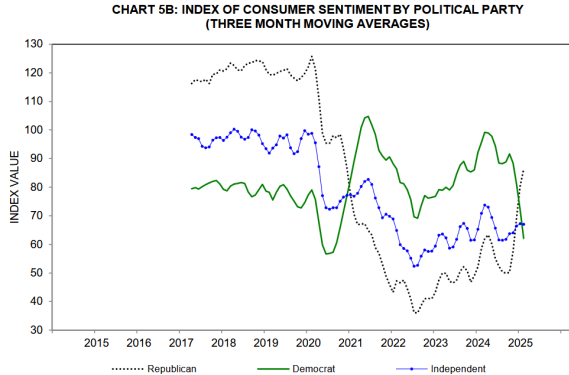


Figure: Source: Michigan Survey of Consumers, March 3, 2025.

# Partisan Expectations Matter for the Macroeconomy

Partisan differences can have effects in:

- Regional heterogeneity in inflation expectations ([Binder, 2023](#))
- Perceptions of central bank credibility ([Kuang \*et al.\*, 2024](#))
- Perceived causes of inflation ([Stantcheva, 2024](#))
- Household consumption ([Kamdar & Ray, 2022](#))
- Stock investments ([Meeuwis \*et al.\*, 2022](#))
- ...

Also cited as a contributor to the post-COVID “vibecession” (Paul Krugman, [Evans \(2025\)](#); [Cummings & Mahoney \(2023\)](#), etc)

# This Paper

Does partisanship dominantly affect household **macro** expectations regardless of their **micro** conditions/expectations?

# This Paper

Does partisanship dominantly affect household **macro** expectations regardless of their **micro** conditions/expectations?

- ① Impute individual-level partisan preferences to expectation surveys 1980-2020
- ② Show that micro expectations exhibit less partisanship than macro expectations
- ③ Distinguish between **bias**, **sentiment**, and **belief extrapolation**
- ④ Use a factor model of beliefs to assess time variation
- ⑤ Show self-interest considerations in the perceived effects of policies on macroeconomy

# The Main Message

*Partisanship does affect macroeconomic expectations (“the colored glasses”), but personal finance and self-interest reasons remain the dominant forces shaping household macroeconomic expectations (“the reality”)*

# Data

## ① Household Expectations

- Survey of Consumer Expectations (SCE) for 2016, 2020 elections
- Michigan Survey of Consumers (MSC) for 1980-2020 elections

⇒ Find micro/macro pairs

## ② Party Affiliation

- Data from American National Election Study (ANES) for 1980-2020 elections
- Surveys respondents around U.S. Presidential elections (every 4 years) since 1948

# Empirical Methodology: Imputation of Partisan Preference

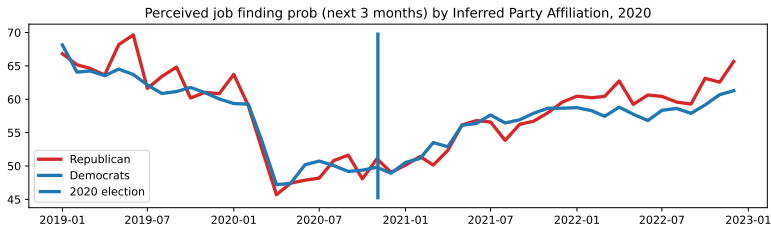
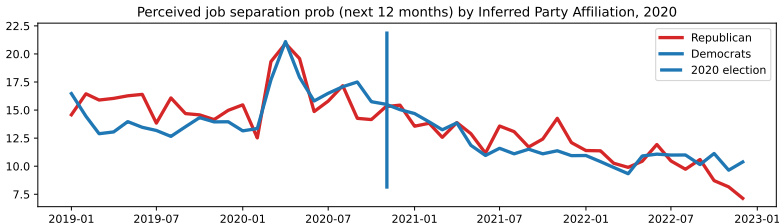
- 1 We run probit regressions of party preferences on **ANES** respondents' demographic variables for Democratic/Republican indicators
- 2 We then get demographic variables for each respondent of **SCE/MS** and take dot product with coefficients from probit regressions in Step 1
- 3 We impute a SCE/MS respondent as Democratic/Republican based on which value from Step 2 is higher



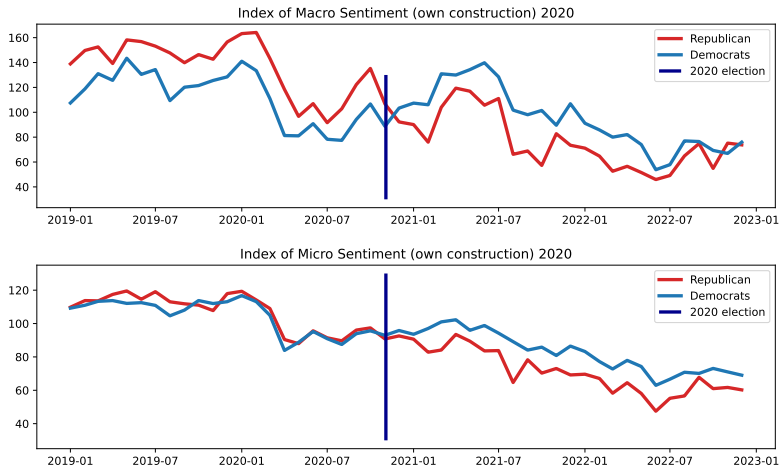
### Macro Beliefs (unemployment rate) by Party



**Figure:** Mean expectations of probability of higher unemployment rate by party, imputed individual-level data, 2019-2022



# Macro vs Micro Indicators from MSC by Party



# Partisan Inflation Expectations

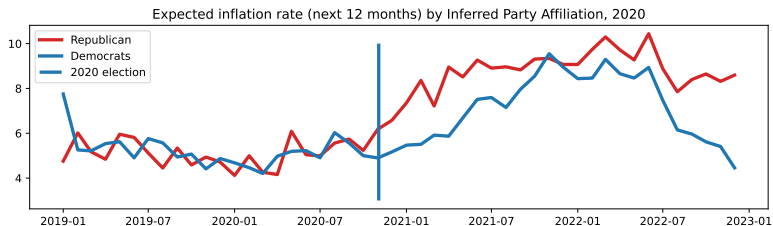


Figure: Mean expected inflation rate by party, individual-level data, 2019-2022 [▶ Household Income](#)

# Partisan Expectations, 1980-2022

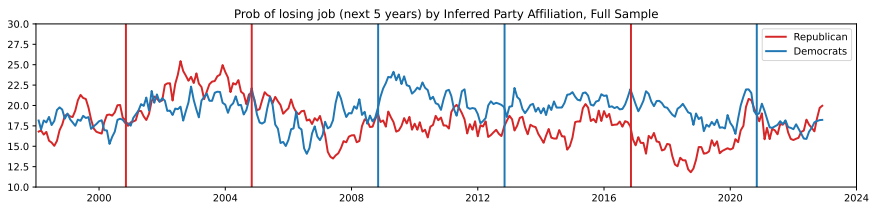


(a) Unemployment rate, 1980-2022

# Partisan Expectations, 1980-2022



(a) Unemployment rate, 1980-2022



(b) Probability of losing job, 1980-2022

# Partisan Bias, Sentiment, and Extrapolation

- We differentiate between:
  - ① partisan **bias** in mean expectations
  - ② political **sentiment** in expectations after month (November) of presidential election
  - ③ belief **extrapolation** from micro to macro expectations

# Partisan Bias, Sentiment, and Extrapolation - Methodology

- We quantify the partisan bias and sentiment by running panel regressions for individual  $i$  and month  $t$  for each election cycle



# Partisan Bias, Sentiment, and Extrapolation - Methodology

- We quantify the partisan bias and sentiment by running panel regressions for individual  $i$  and month  $t$  for each election cycle
- $\alpha_1 \neq 0$  implies partisan **bias** in beliefs  $Belief_{it}$
- $\alpha_3 \neq 0$  implies partisan **sentiment** in beliefs after the election ( $PostElect_t = 1$ )
- $\alpha_6, \alpha_7 \neq 0$  imply partisan differences in belief **extrapolation**

$$\begin{aligned} \text{MacroBelief}_{it} = & \alpha_0 + \alpha_1 \text{Party}_i + \alpha_2 \text{PostElect}_t \\ & + \alpha_3 \text{Party}_i \times \text{PostElect}_t + \alpha_4 \text{MicroBelief}_{it} \\ & + \alpha_5 \text{PostElect}_t \times \text{MicroBelief}_{it} \\ & + \alpha_6 \text{Party}_i \times \text{MicroBelief}_{it} + \alpha_7 \text{Party}_i \times \text{PostElect}_t \times \text{MicroBelief}_{it} \\ & + \text{Controls}_i + \varepsilon_{it} \end{aligned} \tag{1}$$

## Partisan Bias, Sentiment, and Extrapolation - Results

	SCE Unemp	SCE Job Sep	SCE Job Find	MSC Macro Index	MSC Micro Index
Win					
postElect					
Win × postElect					
Micro					
Micro × postElect					
Micro × Win					
Micro × Win × postElect					
Controls	YES	YES	YES	YES	YES
Adj. $R^2$	0.023	0.057	0.024	0.064	0.208
N	106395	63862	63882	56115	56115

	SCE Unemp	SCE Job Sep	SCE Job Find	MSC Macro Index	MSC Micro Index
Win	0.084 (0.101)				
postElect	-4.848*** (0.043)				
Win × postElect	-7.168*** (0.249)				
Micro					
Micro × postElect					
Micro × Win					
Micro × Win × postElect					
Controls	YES	YES	YES	YES	YES
Adj. $R^2$	0.023	0.057	0.024	0.064	0.208
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## Partisan Bias, Sentiment, and Extrapolation - Results

	SCE Unemp	SCE Job Sep	SCE Job Find	MSC Macro Index	MSC Micro Index
Win	0.084 (0.101)	0.259 (0.364)	1.510** (0.734)		
postElect	-4.848*** (0.043)	-4.709*** (0.112)	-8.180*** (0.372)		
Win × postElect	-7.168*** (0.249)	-7.769*** (0.549)	-7.993*** (0.410)		
Micro					
Micro × postElect					
Micro × Win					
Micro × Win × postElect					
Controls	YES	YES	YES	YES	YES
Adj. $R^2$	0.023	0.057	0.024	0.064	0.208
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Win $\times$ postElect	-7.168*** (0.249)	-7.769*** (0.549)	-7.993*** (0.410)		
Micro		0.223*** (0.002)	-0.041*** (0.006)		
Micro $\times$ postElect		0.022*** (0.004)	0.052*** (0.006)		
Micro $\times$ Win					
Micro $\times$ Win $\times$ postElect					
Controls	YES	YES	YES	YES	YES
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Micro $\times$ postElect		0.022*** (0.004)	0.052*** (0.006)		
Micro $\times$ Win		-0.010 (0.016)	-0.024* (0.014)		
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Controls	YES	YES	YES	YES	YES
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# Partisan Bias, Sentiment, and Extrapolation - Results

	SCE Unemp	SCE Job Sep	SCE Job Find	MSC Macro Index	MSC Micro Index
Win	0.084 (0.101)	0.259 (0.364)	1.510** (0.734)	-1.420 (8.688)	7.081 (10.628)
postElect	-4.848*** (0.043)	-4.709*** (0.112)	-8.180*** (0.372)	-26.908*** (1.138)	7.862 (7.110)
Win × postElect	-7.168*** (0.249)	-7.769*** (0.549)	-7.993*** (0.410)	42.057** (17.654)	27.736 (17.022)
Micro		0.223*** (0.002)	-0.041*** (0.006)		0.928*** (0.069)
Micro × postElect		0.022*** (0.004)	0.052*** (0.006)		-0.145** (0.059)
Micro × Win		-0.010 (0.016)	-0.024* (0.014)		-0.077 (0.111)
Micro × Win × postElect		0.064*** (0.012)	0.019* (0.011)		0.037 (0.113)
Controls	YES	YES	YES	YES	YES
Adj. $R^2$	0.023	0.057	0.024	0.064	0.208
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# A Factor Model of Beliefs

- Household  $i$  has its own micro information  $s_{i,t}$  and party preferences  $\kappa_{i,t} \in \{D, R\}$
- Party  $\Theta_t \in \{D, R\}$  wins the election, thus determining  $i$ 's political sentiment  $\tilde{x}_{i,t}$
- $\tilde{x}_{i,t}$  and  $s_{i,t}$  determine  $i$ 's macro expectations  $z_{i,t}$  through functions  $z^{up}$  and  $z^{down}$

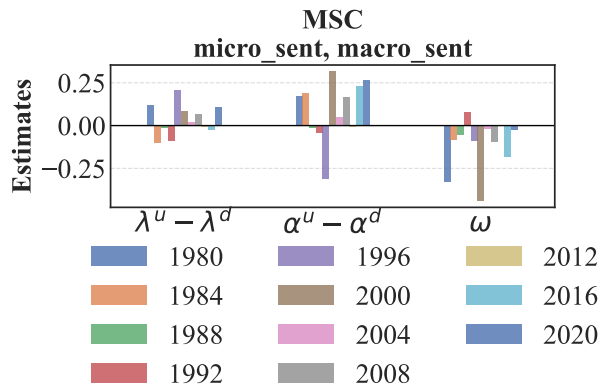
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$$\begin{aligned} z(s_{i,t}, x_{i,t}, \kappa_{i,t}) &= \mathbf{1}(\kappa_{i,t} = D)\omega + \mathbf{1}(x_{i,t} = 1)z^{up}(s_{i,t}) + \mathbf{1}(x_{i,t} \neq 1)z^{down}(s_{i,t}) \\ &\quad + \zeta_i + \phi_t + \varepsilon_{i,t} \\ x_{i,t} &= \mathbf{1}(\kappa_{i,t} = D)\mathbf{1}(\Theta_t = D) + \mathbf{1}(\kappa_{i,t} = R)\mathbf{1}(\Theta_t = R) \\ z^{up}(s_{i,t}) &= \alpha^{up} + \lambda^{up}s_{i,t} \\ z^{down}(s_{i,t}) &= \alpha^{down} + \lambda^{down}s_{i,t} \end{aligned} \tag{2}$$

- $\omega$ : partisan bias
- $\alpha^{up}; \alpha^{down}$ : sentiment shift
- $\lambda^{up}; \lambda^{down}$ : extrapolation
- Estimated for each pair of  $\{z_{i,t}, s_{i,t}\}$  with MLE

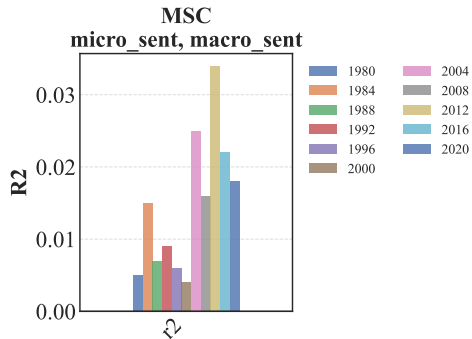
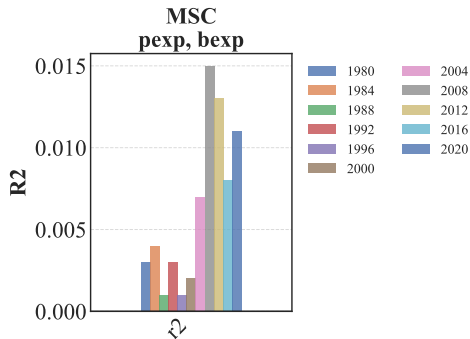
# Structural Model - Results



- ⇒ A positive sentiment shift
- ⇒ A stronger extrapolation of the winning party
- ⇒ Time variation in partisanship

# Time-varying Importance of Partisanship

- The fraction of macroeconomic expectation variation explained by our model



- ⇒ Partisanship was not a new phenomenon
- ⇒ But recent two decades did see stronger partisanship factors

# Role of Policy Expectations - Motivation

- Households hold partisan views of the economy
- Is it because they hold partisan expectations on public policy?  
Partisans may expect better economy because their preferred policies are enacted
- We use data from SCE's Public Policy Survey (PPS) sub-module
- on households' expectations on expansion/reduction(+1/-1) of 6 public policies<sup>1</sup>
- and effects of policy on own household (not the general public)

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<sup>1</sup>Welfare benefits, payroll tax increase, unemployment benefits, capital gains tax, income tax, and income tax for highest income bracket.

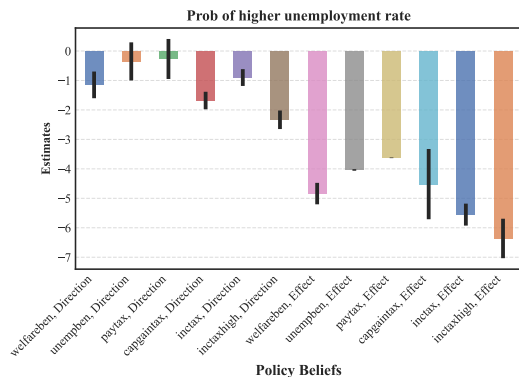
# Role of Policy Expectations - Self-Interest Hypothesis

- We test for hypothesis that households' macro beliefs improve when their preferred policies are enacted
- We run regression on SCE data across 2016 and 2020 elections:

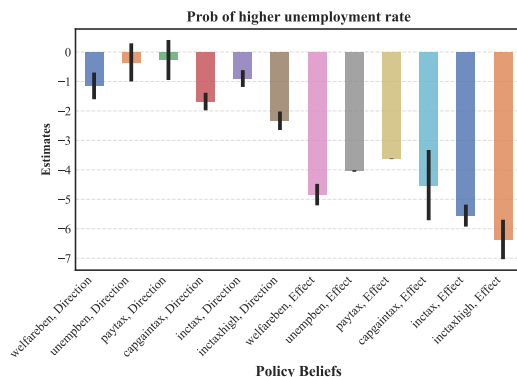
$$\text{Belief}_{it} = \alpha_0 + \alpha_1 \text{PolicyDirection}_{jit} + \alpha_2 \text{PolicyEffect}_{jit} + \text{Controls}_i + \varepsilon_{it}$$

- $\uparrow \text{PolicyEffect} \implies \uparrow \text{Personal benefit}$
- $\alpha_2$  indicates change in households' beliefs based on expected effects of policy

# Role of Policy Expectations - Results



# Role of Policy Expectations - Results



- Expectations of a higher unemployment rate in 12 months
- Left half:  $\alpha_1$ 's, right half:  $\alpha_2$ 's
- Effects are highly significant for  $\alpha_2$ , i.e. for  $\text{PolicyEffect}_{jit}$

⇒ Households believe policies that are beneficial to them as beneficial to the entire economy



# Role of Policy Expectations - More Results

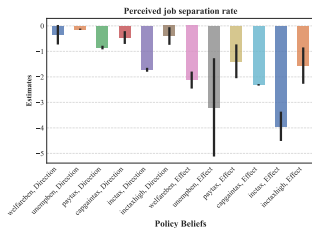


Figure: Job Separation Rate

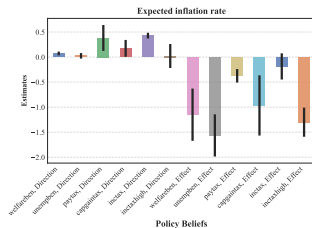


Figure: Inflation Rate

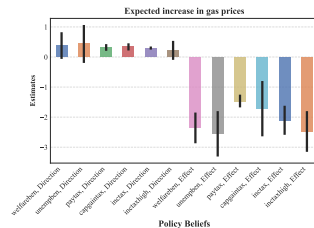


Figure: Gas Prices

# Partisan Cheerleading?

- Do households always perceive the policies of their favored president to be good for the macroeconomy?
- Not often the case: no to weak evidence on such cheerleading effects
- But they perceive the policies by their favored party to benefit themselves

# Conclusion

- We show that household macro beliefs are more partisan than micro beliefs
- We differentiate between:
  - ① Partisan bias
  - ② Political sentiment
  - ③ Belief extrapolation
- Our model shows how partisanship differs along time
- People like policies they benefit from and expect others to benefit as well
- **Partisanship does not overrule personal finance's role in macroeconomic expectations**

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- Meeuwis, Maarten, Parker, Jonathan A, Schoar, Antoinette, & Simester, Duncan. 2022. Belief disagreement and portfolio choice. *The Journal of Finance*, **77**(6), 3191–3247.

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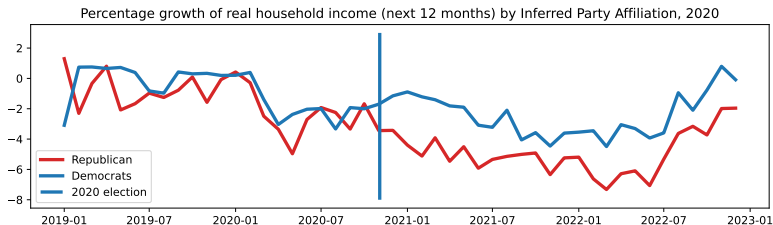
- Mian, Atif, Sufi, Amir, & Khoshkhoh, Nasim. 2021. Partisan bias, economic expectations, and household spending. *Review of Economics and Statistics*, 1–46.
- Stantcheva, Stefanie. 2024. *Why do we dislike inflation?* Tech. rept. National Bureau of Economic Research.

## Data: Partisanship, County-level

- Following [Mian \*et al.\* \(2021\)](#), we impute a county as Democratic/Republican in a given election cycle based on which party's candidate received more votes
- We then match each SCE/MSR respondent's county/commuting zone in data with county's imputed partisan lean

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# Real Household Income Expectations, 2020



**Figure:** Mean expected percentage of real household income growth by party, individual-level data, 2019-2022 [▶▶ Back](#)

# Partisan Bias, Sentiment, and Extrapolation - Additional Results (I)

	MSC macro	MSC micro	MSC bexp	MSC pexp	MSC bus12	MSC rinc	SCE	SCE Job Sep	SCE Job Find
Win	-0.769 (8.446)	7.973 (10.329)	0.013 (0.027)	-0.008 (0.026)	-0.002 (0.044)	-0.001 (0.033)	0.084 (0.101)	0.259 (0.364)	1.510** (0.734)
postElect	-27.385*** (1.059)	7.644 (6.531)	-0.053*** (0.003)	-0.047*** (0.004)	-0.134*** (0.005)	-0.100*** (0.005)	-4.848*** (0.043)	-4.709*** (0.112)	-8.180*** (0.372)
WinXpostElect	41.326** (17.235)	27.209 (16.583)	0.170*** (0.047)	0.176*** (0.060)	0.189** (0.088)	0.215*** (0.071)	-7.168*** (0.249)	-7.769*** (0.549)	-7.993*** (0.410)
Micro		0.927*** (0.064)		0.384*** (0.004)		0.314*** (0.009)		0.223*** (0.002)	-0.041*** (0.006)
MicroXpostElect		-0.145*** (0.053)		0.063*** (0.005)		0.000 (0.004)		0.022*** (0.004)	0.052*** (0.006)
MicroXWin		-0.082 (0.106)		0.032 (0.055)		0.002 (0.032)		-0.010 (0.016)	-0.024* (0.014)
MicroXWinXpostElect		0.037 (0.109)		-0.100* (0.058)		-0.115*** (0.035)		0.064*** (0.012)	0.019* (0.011)
Controls	YES	YES	YES	YES	YES	YES	YES	YES	YES
Adj_R2	0.064	0.208	0.011	0.126	0.066	0.120	0.023	0.057	0.024
N	55987	55987	55987	55987	55987	55987	106395	63862	63882

## Micro to Macro Partisan Bias and Switch for All Elections (I)

MSC elections 2008, 2016, 2020; SCE elections 2016-2020



# Partisan Bias, Sentiment, and Extrapolation - Additional Results (II)

	MSC Inflation 1y	MSC Gas Price 1y	MSC Inflation 5y	MSC Gas Price 5y	SCE Inflation	SCE Gas Price	SCE Food Price	SCE Rent price
Win	0.096 (0.186)	0.006 (0.273)	-0.054 (0.075)	-0.043 (0.066)	-0.029*** (0.011)	0.341*** (0.065)	0.464*** (0.114)	0.342*** (0.049)
postElect	2.120*** (0.001)	1.485*** (0.069)	0.466*** (0.002)	-0.036*** (0.011)	2.780*** (0.006)	2.086*** (0.084)	1.650*** (0.108)	1.477*** (0.189)
WinXpostElect	-1.409*** (0.017)	-1.105*** (0.189)	-0.270*** (0.048)	-0.304*** (0.033)	-1.924*** (0.087)	-1.401*** (0.157)	-1.139*** (0.169)	-1.018*** (0.096)
Micro		0.015*** (0.003)		0.005*** (0.000)		0.127*** (0.012)	0.359*** (0.010)	0.266*** (0.017)
MicroXpostElect		0.014*** (0.003)		0.004*** (0.000)		0.062*** (0.013)	0.029** (0.013)	0.025 (0.022)
MicroXWin		0.003 (0.003)		-0.000 (0.000)		-0.058*** (0.007)	-0.074*** (0.013)	-0.035*** (0.004)
MicroXWinXpostElect		0.004 (0.003)		0.003*** (0.000)		0.029*** (0.005)	0.007 (0.006)	-0.026*** (0.001)
Controls	YES	YES	YES	YES	YES	YES	YES	YES
Adj. $R^2$	0.063	0.097	0.021	0.049	0.091	0.135	0.184	0.169
N	55046	33070	55522	41222	104155	90067	90258	90315

## Micro to Macro Partisan Bias and Switch for All Elections (II)

MSC elections 2008, 2016, 2020; SCE elections 2016-2020

# Partisan Bias, Sentiment, and Extrapolation - Results

	MSC Unemp	MSC Job Separation	MSC Macro Index	MSC Micro Index
Win	-0.005 (0.027)	0.002 (0.021)	-1.420 (8.688)	5.288 (7.113)
postElect	-0.039*** (0.003)	-0.033*** (0.002)	-26.908*** (1.138)	6.609** (2.873)
WinXpostElect	-0.131*** (0.050)	-0.118*** (0.037)	42.057** (17.654)	35.086** (14.067)
Micro		0.148*** (0.020)		0.780*** (0.033)
MicroXpostElect		-0.038 (0.024)		-0.142*** (0.025)
MicroXWin		-0.029 (0.038)		-0.058 (0.086)
MicroXWinXpostElect		-0.043 (0.038)		-0.081 (0.090)
News		-0.142*** (0.018)		42.805*** (3.757)
NewsXpostElect		0.035* (0.019)		-2.461 (3.715)
NewsWin		0.024** (0.011)		-1.171 (1.842)
NewsXWinXpostElect		-0.055*** (0.011)		12.120*** (1.953)
Controls	YES	YES	YES	YES
Adj. $R^2$	0.052	0.086	0.064	0.275
N	56115	56115	56115	56115