Online Appendix to: The Effect of Consumer Sentiment on Consumption: Cross-Sectional Evidence from Elections

Christian Gillitzer The University of Sydney Nalini Prasad UNSW Sydney

November 2017

	Mean in data	economi	$c\ indicator_t = \alpha ALP$	$P_t + \beta Lib/Nat_t + \varepsilon_t$	$\alpha = \beta$
	[standard deviation]	ALP	Liberal/National	Difference	<i>p</i> -value
GDP growth	3.168	3.247	3.067	0.180	0.803
	[2.859]	(0.473)	(0.435)	(0.717)	
Non-farm GDP growth	3.235	3.246	3.222	0.024	0.970
	[2.814]	(0.484)	(0.366)	(0.642)	
GDP per capita growth	1.810	1.833	1.780	0.053	0.943
	[2.922]	(0.497)	(0.455)	(0.743)	
Employment growth (heads)	1.853	1.893	1.801	0.092	0.878
	[2.019]	(0.476)	(0.338)	(0.597)	
Employment growth (hours)	1.642	1.797	1.441	0.356	0.629
	[2.972]	(0.546)	(0.435)	(0.735)	
Unemployment rate	7.054	7.581	6.371	1.210	0.067
	[1.856]	(0.567)	(0.402)	(0.655)	
Unemployment rate change	-0.038	-0.003	-0.083	0.080	0.836
	[1.291]	(0.277)	(0.244)	(0.385)	
Labor productivity growth	1.532	1.451	1.637	-0.187	0.716
	[3.254]	(0.358)	(0.382)	(0.512)	
TFP growth	0.603	0.338	0.924	-0.586	0.158
	[1.094]	(0.248)	(0.341)	(0.404)	
Inflation	3.614	4.233	2.812	1.421	0.104
	[3.119]	(0.716)	(0.518)	(0.869)	
Core Inflation	3.759	4.421	2.903	1.518	0.036
	[2.181]	(0.659)	(0.344)	(0.715)	

Table A1: Economic Outcomes by Political Party in Power

Notes: This table reports aggregate economic outcomes based on the political party in power at the national level. All economic indicators are measured on a quarterly basis from the December quarter 1982 to the December quarter 2015 — the period over which aggregate sentiment data by voting intention is available — and expressed as an annualized percentage change. The exceptions are the the unemployment rate which is measured in percentage points and the change in the unemployment rate which is expressed in annualized terms. TFP growth is measured on an annual basis and starts in 1985. The first column reports averages for each economic indicator with standard deviations in brackets. The next two columns report coefficient estimates from the regression: economic indicator_t = $\alpha ALP_t + \beta Lib/Nat_t + \varepsilon_t$ where ALP_t is a dummy variable that is equal to one if the Liberal/National Party is in power and is zero otherwise. The next column shows the difference in the coefficient estimate between ALP and Liberal/National Party governments. Newey-West standard errors using six lags (or two lags for TFP) are in parentheses. The last column shows p-values associated with the Wald test that $\alpha = \beta$. The first quarter of a given political party's term is assigned to the previous party in office. Standard errors in parentheses.

UD-Max	Information	SupF	Sequential	Brea	k dates (m	onth)	Changes of
test	criteria	test	test	3 breaks	4 breaks	5 breaks	government
		Panel A: Un	conditional	spending	intentions		
81.08***	BIC	SupF(2 1)	4 breaks	Feb-96	Feb-96	Feb-96	Mar-96
	5 breaks	113.80***		Mar-08	Dec-07	Jun-00	Nov-07
	LWZ	SupF(3 2)		Oct-13	Apr-10	Dec-07	Sep-13
	4 breaks	74.53***			Sep-13	Apr-10	
		SupF(4 3)				Sep-13	
		33.62***					
		SupF(5 4)					
		5.16					
		Panel B: C	onditional s	pending ir	itentions		
86.26***	BIC	SupF(2 1)	4 breaks	Apr-96	Apr-96	Mar-96	Mar-96
	5 breaks	126.90***		Dec-07	Nov-07	Aug-00	Nov-07
	LWZ	SupF(3 2)		Oct-13	Apr-10	Dec-01	Sep-13
	3 breaks	59.70***			Oct-13	Dec-07	
		SupF(4 3)				Oct-13	
		33.92***					
		SupF(5 4)					
		5.18					

Table A2: Bai and Perron (1998) Break Test Results: Major Household Item Spending Intentions: ALP minus Lib/Nat Voters

Notes: This table reports tests for a break in the difference between the mean level of major household item spending intentions for ALP and Liberal/National voters. The UD-Max test is for an unspecified number of breaks against the null of zero breaks; the test evaluates an F-statistic for 1–5 breaks, with the breakpoints selected by global minimization of the sum of squared residuals, and each of the five F-statistics weighted equally. The LWZ statistic is a modified Schwarz criterion. The SupF(i+1|i)test is for i + 1 breaks against the null of i breaks. The sequential test selects the number of breaks stepwise from zero breaks using the SupF test assuming a 5 percent significance level. The break dates are those identified by minimizing the sum of squared errors conditional on the number of breaks. ***, ** and * represent statistical significance at the 1, 5 and 10 percent levels, respectively.

UD-Max	Information	SupF	Sequential	Break	dates (qu	arter)	Changes of
test	criteria	test	test	2 breaks	3 breaks	4 breaks	government
	Panel	A: Uncondi	tional auton	nobile sper	nding inter	ntions	
52.64***	BIC	SupF(2 1)	3 breaks	Dec-95	Dec-95	Dec-95	Mar-96
	3 breaks	73.03***		Jun-08	Dec-07	Dec-04	Dec-07
	LWZ	SupF(3 2)			Jun-10	Dec-07	
	2 breaks	15.51***				Jun-10	
		SupF(4 3)					
		4.54					
		SupF(5 4)					
		6.66					
	Pane	l B: Conditi	onal automo	obile spend	ling intent	ions	
50.28***	BIC	SupF(2 1)	3 breaks	Dec-95	Dec-95	Dec-95	Mar-96
	3 breaks	82.28***		Dec-09	Dec-07	Dec-04	Dec-07
	LWZ	SupF(3 2)			Jun-10	Dec-07	
	2 breaks	34.32***				Jun-10	
		SupF(4 3)					
		4.11					
		SupF(5 4)					
		6.62					

Table A3: Bai and Perron (1998) Break Test Results: Automobile Spending Intentions: ALP minus Lib/Nat Voters

Notes: This table reports tests for a break in the difference between the mean level of automobile spending intentions for ALP and Liberal/National voters. The automobiles spending intentions question was asked on a quarterly basis from 1995-2006, then monthly until January 2014, when it was discontinued; we use data on a quarterly basis for the whole time period. There is only 1 quarter of data following the 2013 change of government so it is not possible to test for a break at that election. See notes to Table A2 for other details. ***, ** and * represent statistical significance at the 1, 5 and 10 percent levels, respectively.

Panel A	: Second	stage: sp	$pend_{it} = \delta$	$\delta_t + \sum_t \sum_t \delta_t$	$\gamma_{jt}X_{ijt} +$	$-\phi expect_{it}$	$+ \varepsilon_{it}$	
November 2007 elect	tion: ALP	victory						
personal: past yr	0.515	(0.097)						
personal: next yr			0.539	(0.107)				
economy: next yr					0.303	(0.059)		
economy: 5 yrs							0.330	(0.059)
September 2013 elec	tion: Libe	eral/Natior	al victory	7				
<i>personal</i> : past yr	0.682	(0.085)						
personal: next yr			0.681	(0.086)				
economy: next yr					0.406	(0.047)		
economy: 5 yrs							0.506	(0.061)
Panel I	B: $\mathbf{First} \ \mathbf{s}$	tage: exp	$ect_{it} = \delta_t$	$+\sum_{t}\sum_{i}\gamma$	$(itX_{iit} + \lambda)$	$\lambda support_{it}$	$+ \varepsilon_{it}$	
		0 1	00 0		je ije	11 00		
	persona	<i>l</i> : past yr	persona	l: next yr	econom	y: next yr	econom	ny: 5 yrs
November 2007 elect	<i>persona</i> tion: ALP	l: past yr victory	persona	l: next yr	econom	y: next yr	econom	ay: 5 yrs
November 2007 elect	persona tion: ALP 0.146	$\frac{l: \text{ past yr}}{\text{victory}}$ (0.012)	0.139	(0.012)	econom 0.236	$\frac{11}{y: \text{ next yr}}$ (0.013)	<i>econom</i> 0.241	<i>ay</i> : 5 yrs (0.014)
November 2007 elect support R^2	<i>persona</i> tion: ALP 0.146 0.172	l: past yr victory (0.012)	0.139 0.152	$\frac{2}{(0.012)}$	econom 0.236 0.198	$\frac{11}{y: \text{ next yr}}$ (0.013)	econom 0.241 0.107	<i>ay</i> : 5 yrs (0.014)
November 2007 elect support R^2 F-statistic	persona tion: ALP 0.146 0.172 138.72	l: past yr victory (0.012)	0.139 0.152 145.13	(0.012)	0.236 0.198 328.95	$\frac{1}{y: \text{ next yr}}$ (0.013)	0.241 0.107 307.11	<i>ay</i> : 5 yrs (0.014)
November 2007 elect support R^2 F-statistic Observations	persona tion: ALP 0.146 0.172 138.72 25,971	l: past yr victory (0.012)	<i>persona</i> 0.139 0.152 145.13 24,407	(0.012)	$\begin{array}{r} 0.236\\ 0.198\\ 328.95\\ 24,541 \end{array}$	$\frac{11}{y: \text{ next yr}}$ (0.013)	econom 0.241 0.107 307.11 23,616	<i>ny</i> : 5 yrs (0.014)
November 2007 elect $support$ R^2 F-statisticObservationsSeptember 2013 elect	persona tion: ALP 0.146 0.172 138.72 25,971 tion: Libe	l: past yr victory (0.012) eral/Nation	0.139 0.152 145.13 24,407 nal victory	(0.012)	0.236 0.198 328.95 24,541	y: next yr (0.013)	econom 0.241 0.107 307.11 23,616	<i>ay</i> : 5 yrs (0.014)
November 2007 elect $support$ R^2 F-statisticObservationsSeptember 2013 elect $support$	persona tion: ALP 0.146 0.172 138.72 25,971 tion: Libe 0.199	l: past yr victory (0.012) eral/Nation (0.014)	0.139 0.152 145.13 24,407 nal victory 0.195	(0.012) (0.013)	0.236 0.198 328.95 24,541 0.328	y: next yr (0.013) (0.015)	econom 0.241 0.107 307.11 23,616 0.259	0.014) (0.014) (0.014)
November 2007 elect $support$ R^2 F-statisticObservationsSeptember 2013 elect $support$ R^2	persona tion: ALP 0.146 0.172 138.72 25,971 tion: Libe 0.199 0.177	l: past yr victory (0.012) eral/Nation (0.014)	0.139 0.152 145.13 24,407 nal victory 0.195 0.175	(0.012) (0.013)	0.236 0.198 328.95 24,541 0.328 0.157	y: next yr (0.013) (0.015)	$\begin{array}{c} 0.241 \\ 0.107 \\ 307.11 \\ 23,616 \\ 0.259 \\ 0.141 \end{array}$	<i>ay</i> : 5 yrs (0.014) (0.014)
November 2007 elect $support$ R^2 F-statisticObservationsSeptember 2013 elect $support$ R^2 F-statistic	persona tion: ALP 0.146 0.172 138.72 25,971 tion: Libe 0.199 0.177 191.43	l: past yr victory (0.012) eral/Nation (0.014)	0.139 0.152 145.13 24,407 nal victory 0.195 0.175 220.83	(0.012)	$\begin{array}{r} 0.236\\ 0.198\\ 328.95\\ 24,541\\ \hline 0.328\\ 0.157\\ 509.56\\ \end{array}$	$\frac{y: \text{ next yr}}{(0.013)}$ (0.015)	$\begin{array}{c} 0.241 \\ 0.107 \\ 307.11 \\ 23,616 \\ 0.259 \\ 0.141 \\ 336.14 \end{array}$	<i>py</i> : 5 yrs (0.014) (0.014)

Table A4: Sentiment and Major Household Item Spending Intentions: Robustness to House Prices

Notes: This table reports results analogous to Table 3, where the set of control variables is augmented to include changes in house prices. Specifically, X_{ijt} includes the year-over-year change in house prices for the previous three years: $\triangle^{12}hp_{it}$, $\triangle^{12}hp_{it-12}$, and $\triangle^{12}hp_{it-24}$, where hp_{it} is the log of the average level of house prices over the year to month t for the statistical division in which survey respondent i lives. We match survey respondents to statistical divisions using respondents' postcode of residence. The number of observations is a little smaller than for the analogous regressions in Table 3 because postcode of residence is not available for all survey respondents. House price data are available for 60 statistical divisions covering the whole country; house price data is unavailable for the period spanning the 1996 change of government. See the notes to Table 3 for other details. Robust standard errors are in parentheses.

Panel A: \mathbf{S}	econd st	age: autor	$mobiles_{it}$	$=\delta_t + \sum_t$	$\sum_{j} \gamma_{jt} X_{i}$	$_{jt} + \phi expected$	$ct_{it} + \varepsilon_{it}$	
November 2007 elect	ion: ALP	victory			μ			
<i>personal</i> : past yr	0.515	(0.101)						
personal: next yr			0.550	(0.111)				
economy: next yr					0.358	(0.062)		
economy: 5 yrs							0.319	(0.061)
September 2013 elec	September 2013 election: Liberal/National victory							
<i>personal</i> : past yr	0.748	(0.106)						
<i>personal</i> : next yr			1.021	(0.161)				
economy: next yr					0.489	(0.062)		
economy: 5 yrs							0.714	(0.098)
Donal E	· First a	toral arm	$a = \delta$) aumnant		
1 allel 1	b. Filst s	tage: exp	$ec\iota_{it} = o_t$	$+ \sum_t \sum_j \gamma$	$(jt \Lambda_{ijt} + \lambda_{ijt})$	$\Lambda support_{it}$	$+ \varepsilon_{it}$	
	persona	l: past yr	$\frac{ec\iota_{it} = o_t}{persona}$	$\frac{+\sum_t\sum_j}{l: \text{ next yr}}$	$\frac{\partial jt \Lambda_{ijt} + \lambda_{ijt}}{econom}$	$\frac{x support_{it}}{y: \text{ next yr}}$	$+ \varepsilon_{it}$	ay: 5 yrs
November 2007 elect	<i>persona</i> ion: ALP	l: past yr	$\frac{ec\iota_{it} = o_t}{personal}$	$+ \sum_t \sum_j \gamma_l$ l: next yr	$\frac{\partial jt \Lambda_{ijt} + \lambda_{ijt}}{econom}$	y: next yr	$+ \varepsilon_{it}$ econom	ay: 5 yrs
November 2007 elect	<i>persona</i> ion: ALP 0.151	<i>l</i> : past yr victory (0.013)	$\frac{ect_{it} = b_t}{personal}$ 0.139	$\frac{+\sum_{t}\sum_{j}\gamma}{l: \text{ next yr}}$ (0.012)	$\frac{\partial_{jt} \Lambda_{ijt} + \lambda_{ijt}}{econom}$	$\frac{xsupport_{it}}{y: \text{ next yr}}$ (0.014)	$\frac{+\varepsilon_{it}}{econom}$ 0.247	<i>ay</i> : 5 yrs (0.015)
November 2007 elect support R^2	<i>persona</i> ion: ALP 0.151 0.184	<i>l</i> : past yr <i>v</i> ictory (0.013)	$ \begin{array}{c} ect_{it} = \delta_t \\ \hline persona \\ 0.139 \\ 0.163 \end{array} $	$\frac{+ \sum_{l} \sum_{j} \gamma}{l: \text{ next yr}}$ (0.012)	$\frac{0.239}{0.207}$	$\frac{xsupport_{it}}{y: \text{ next yr}}$ (0.014)	$\frac{+\varepsilon_{it}}{econom}$ 0.247 0.116	y: 5 yrs (0.015)
November 2007 elect support R^2 F-statistic	<i>persona</i> ion: ALP 0.151 0.184 134.55	l: past yr victory (0.013)	$ \begin{array}{c} ect_{it} = b_t \\ \hline persona \\ 0.139 \\ 0.163 \\ 130.93 \end{array} $	$\frac{+\sum_{t}\sum_{j}}{l: \text{ next yr}}$ (0.012)	$\frac{0.239}{0.207}$	$\frac{xsupport_{it}}{y: \text{ next yr}}$ (0.014)	$ \begin{array}{r} + \varepsilon_{it} \\ \hline econom \\ 0.247 \\ 0.116 \\ 290.51 \end{array} $	<i>ay</i> : 5 yrs (0.015)
November 2007 elect support R^2 F-statistic Observations	<i>persona</i> ion: ALP 0.151 0.184 134.55 23,025	l: past yr victory (0.013)	$ \begin{array}{c} ect_{it} = b_t \\ \hline personal \\ 0.139 \\ 0.163 \\ 130.93 \\ 21,762 \\ \end{array} $	$\frac{+\sum_{t}\sum_{j}}{l: \text{ next yr}}$ (0.012)	$\begin{array}{c} 0.239\\ 0.207\\ 302.74\\ 21,955 \end{array}$	$\frac{xsupport_{it}}{y: \text{ next yr}}$ (0.014)	$ \begin{array}{r} + \varepsilon_{it} \\ \hline econom \\ 0.247 \\ 0.116 \\ 290.51 \\ 21,193 \end{array} $	<i>ny</i> : 5 yrs (0.015)
November 2007 elect $support$ R^2 F-statisticObservationsSeptember 2013 elect		l: past yr victory (0.013)	$\frac{0.139}{0.163}$ $\frac{0.163}{130.93}$ $\frac{21,762}{131}$	$\frac{+\sum_{t}\sum_{j}}{(0.012)}$	$\begin{array}{c} 0.239\\ 0.207\\ 302.74\\ 21,955\end{array}$	(0.014)	$+ \varepsilon_{it}$ econom 0.247 0.116 290.51 21,193	<i>ay</i> : 5 yrs (0.015)
November 2007 elect $support$ R^2 F-statisticObservationsSeptember 2013 elect $support$	<i>persona</i> ion: ALP 0.151 0.184 134.55 23,025 tion: Libe 0.199	l: past yr victory (0.013) eral/Nation (0.018)	$ \begin{array}{r} ect_{it} = b_t \\ \hline persona \\ 0.139 \\ 0.163 \\ 130.93 \\ 21,762 \\ \hline nal \ victory \\ 0.145 \end{array} $	$\frac{+\sum_{t}\sum_{j}}{(0.012)}$	$\begin{array}{r} 0.239\\ 0.207\\ 302.74\\ 21,955\\ 0.313 \end{array}$	(0.018)	$ \begin{array}{r} + \varepsilon_{it} \\ \hline econom \\ 0.247 \\ 0.116 \\ 290.51 \\ 21,193 \\ \hline 0.212 \end{array} $	<i>ay</i> : 5 yrs (0.015) (0.018)
November 2007 elect $support$ R^2 F-statisticObservationsSeptember 2013 elect $support$ R^2	$\begin{array}{c} \begin{array}{c} \text{persona} \\ \hline persona \\ \hline ion: \ \text{ALP} \\ 0.151 \\ 0.184 \\ 134.55 \\ 23,025 \\ \hline \text{tion: \ Libe} \\ 0.199 \\ 0.181 \end{array}$	l: past yr victory (0.013) eral/Nation (0.018)	$ \begin{array}{c} ect_{it} = b_t \\ \hline persona \\ 0.139 \\ 0.163 \\ 130.93 \\ 21,762 \\ \hline nal victory \\ 0.145 \\ 0.158 \\ \end{array} $	$\frac{+\sum_{t}\sum_{j}}{(0.012)}$ (0.012) (0.016)	$\begin{array}{r} 0.239\\ 0.207\\ 302.74\\ 21,955\\ 0.313\\ 0.158\end{array}$	$\frac{xsupport_{it}}{y: \text{ next yr}}$ (0.014) (0.018)	$ \begin{array}{r} + \varepsilon_{it} \\ \hline econom \\ 0.247 \\ 0.116 \\ 290.51 \\ 21,193 \\ \hline 0.212 \\ 0.129 \end{array} $	<i>ay</i> : 5 yrs (0.015) (0.018)
I after 1November 2007 elect $support$ R^2 F-statisticObservationsSeptember 2013 elect $support$ R^2 F-statistic	$\begin{array}{c} \text{persona} \\ \hline persona \\ \hline on: ALP \\ 0.151 \\ 0.184 \\ 134.55 \\ 23,025 \\ \hline tion: Libe \\ 0.199 \\ 0.181 \\ 117.96 \end{array}$	l: past yr victory (0.013) eral/Nation (0.018)	$\begin{array}{c} ect_{it} = b_t\\ \hline persona\\ 0.139\\ 0.163\\ 130.93\\ 21,762\\ \hline nal \ victory\\ 0.145\\ 0.158\\ 81.69 \end{array}$	$\frac{+\sum_{t}\sum_{j}}{(0.012)}$	$\begin{array}{r} 0.239\\ 0.207\\ 302.74\\ 21,955\\ 0.313\\ 0.158\\ 291.32 \end{array}$	(0.018)	$ \begin{array}{r} + \varepsilon_{it} \\ \hline econom \\ 0.247 \\ 0.116 \\ 290.51 \\ 21,193 \\ \hline 0.212 \\ 0.129 \\ 140.46 \end{array} $	<i>ay</i> : 5 yrs (0.015) (0.018)

Table A5: Sentiment and Automobile Spending Intentions: Robustness to House Prices

Notes: This table reports results analogous to Table 4, where the set of control variables is augmented to include changes in house prices. Specifically, X_{ijt} includes the year-over-year change in house prices for the previous three years: $\triangle^{12}hp_{it}$, $\triangle^{12}hp_{it-12}$, and $\triangle^{12}hp_{it-24}$, where hp_{it} is the log of the average level of house prices over the year to month t for the statistical division in which survey respondent i lives. We match survey respondents to statistical divisions using respondents' postcode of residence. The number of observations is a little smaller than for the analogous regressions in Table 4 because postcode of residence is not available for all survey respondents. House price data are available for 60 statistical divisions covering the whole country; house price data is unavailable for the period spanning the 1996 change of government. See the notes to Tables 3 and 4 for other details. Robust standard errors are in parentheses.

	ALP vote share: 2007	ALP vote share: 2013
Log taxable income	-19.22	-24.32
	(4.68)	(5.04)
Bachelor's degree or higher: percent	1.17	1.12
	(0.22)	(0.20)
Average age: years	-0.20	-0.24
	(0.11)	(0.12)
Unemployment rate: percent	1.73	1.05
	(0.21)	(0.25)
Share of renters: percent	0.00	-0.02
	(0.05)	(0.06)
White-collar profession: percent	-0.80	-0.74
	(0.16)	(0.19)
Industry of employment: percent		
Agriculture	-0.64	-0.71
	(0.14)	(0.13)
Mining & construction	-0.39	-0.36
	(0.15)	(0.14)
Manufacturing	-0.16	0.23
	(0.13)	(0.16)
Retail & wholesale trade	-0.92	-1.13
	(0.17)	(0.20)
Services	-0.39	-0.53
	(0.19)	(0.19)
Health and education	-0.60	-0.42
	(0.16)	(0.17)
Arts and accommodation	-0.75	-0.54
	(0.25)	(0.24)
Other	-1.16	-1.37
	(0.52)	(0.48)
Region: inner regional	-4.82	-5.02
	(1.45)	(1.56)
Region: outer regional	-5.16	-5.91
	(1.77)	(1.75)
Region: remote	-2.00	-3.36
	(2.50)	(2.50)
Region: very remote	1.87	1.15
	(3.75)	(3.87)
R^2	0.61	0.55
Observations	2265	2264

Table A6: ALP Vote Share Regressions

Notes: This table reports coefficient estimates from a regression of the ALP vote share on postcode-level characteristics. For the 2007 election, income is measured using 2006/07 financial year taxable income data and other variables are taken from the 2006 Census. For the 2013 election, income is measured using 2012/13 financial year taxable income data and other variables are taken from the 2011 Census. Observations are weighted by the number of voters in a postcode at each election. Baseline covariates are: home owner, blue-collar profession, public sector industry, and metropolitan location. Postcodes in the Australian Capital Territory are excluded. Standard errors in parentheses.

Data	Sourco	Notos
Individual lavel data	Source	TIOLED
<u> </u>		
Consumer sentiment	Westpac-Melbourne Institute Survey of Consumer	All individual level sentiment,
data	Sentiment	demographic and economic
		characteristic data.
Postcode level data		
Census data	ABS Census of Population and Housing 1996,	Education, age,
	2006, 2011	unemployment rate, share
		that rent, occupation and
		industry of work
ALP vote share	Australian Electoral Commission data: 2007 and	ALP two party preferred vote
	2013 election	share by polling place, which
		is aggregated to a postcode
		level
Automobile purchases	Quarterly data is from VFACTS provided by the	Purchases by households
-	Federal Chamber of Automotive Industries.	from VFACTS, total
	Annual registration data is from the ABS Motor	registrations from ABS
	Vehicle Census Australia (Catalogue no. 9309.0)	0
Population	ABS Socio-Economic Index for Areas 1996, 2001,	
	2006, 2011	
Income	Australian Taxation Office Taxation Statistics	Average individual taxable
	2006-07, 2007-08, 2008-09, 2009-10, 2010-11,	income from the taxation
	2011-12, 2012-13	office and household income
	ABS Household Income and Wealth (catalogue no.	from the ABS.
	6523.0)	
House prices	Core Logic Australia from the SIRCA database.	Measured at a statistical
-		division level and mapped to
		postcodes using ABS
		correspondences.
Remoteness	Australian Statistical Geography Standard:	1
	Remoteness Structure	
Other data		
Stock market index	Bloomberg	ASX200 Index
Political opinion polling	Newspoll published in <i>The Australian</i> newspaper	Two party preferred vote
I	, , , , , , , , , , , , , , , , , , ,	share
Betting market data	Betfair	
GDP and non-farm	ABS Australian National Accounts: National	
GDP. Employment	Income, Expenditure and Product, Dec 2016	
(hours),	(catalogue no. 5206.0)	
Labor productivity		
Employment (heads).	ABS Labour Force, Australia. (catologue no.	
Unemployment rate	6202.0)	
CPI	ABS Consumer Price Index. Australia (catologue	
	no. 6401.0)	
Core CPI	Reserve Bank of Australia	Trimmed mean inflation
Resident population	ABS Australian Demographic Statistics (catologue	
restant population	no 3101 0)	
TFP	OECD Multifactor Productivity Database	
TT T	OLOD Multilacion i localetivity Database	

Table A7: Data Sources



Figure A1: Automobile Sales and Spending Intentions: Postcode-level Relationship

Notes: The right panel, All, shows the γ coefficient from Equation (8); the left panel shows γ_i coefficients from the analogous regression restricted to data in each year 2004-2013; the vertical bars indicate two standard error confidence bands.





Notes: The dotted line repeats the β -coefficients shown in Figure 9. The other lines show the fitted values from Equation (13). That is, the value of $\gamma \left(ALP_i^{\tau} \times \Delta^{t-T_{\tau}} \log (ASX_t)\right)$ for each quarter, where (a) uses ALP vote shares for the 2007 election and (b) uses vote shares for the 2013 election.

Figure A3: Components of Consumer Sentiment: Imputed Voting Intention ALP minus Liberal/National Voters



Notes: These estimates repeat those of Figures 5a, 5b and 5d using imputed rather than self-reported voting intention. Voting intention is imputed using the ALP vote share at the 2007 federal election in the postcode of residence for each survey respondent. Standard error bands are not shown for clarity. See notes to Figures 5 and 13 for further details.





Notes: The graph shows the estimated coefficients β_j for Equation (9) together with two standard error confidence bands, using annual vehicles data and 2007 vote share data; the coefficients β_j are relative to the omitted year 2007, when the ALP won government. We measure per capita automobile purchases in two ways: purchases by households and registration data that includes purchases by households, businesses and the government; registration data are available only at an annual frequency.

References

Bai, Jushan, and Pierre Perron. 1998. "Estimating and Testing Linear Models with Multiple Structural Changes." *Econometrica*, 66(1): 47–78.