Can Evidence-Based Information Shift Preferences Towards Trade Policy?

Laura Alfaro HBS, CEPR & NBER Maggie Chen George Washington

Davin Chor Dartmouth & NBER

Jun 2023

<ロ> <四> < 回> < 回> < 回> < 回> < 回> < 回</p>

Backdrop

- Growing economic grievances have sowed the seeds for a backlash against globalization across many countries (Colantone et al., 2022)
 - Decline in manufacturing employment; weak labor market outcomes for low-skill workers; the rise in income inequality.
 - Anti-global sentiment further escalated with the trade war and the pandemic (supply chain disruptions, PPE/vaccine export restrictions).

Backdrop

- Growing economic grievances have sowed the seeds for a backlash against globalization across many countries (Colantone et al., 2022)
 - Decline in manufacturing employment; weak labor market outcomes for low-skill workers; the rise in income inequality.
 - Anti-global sentiment further escalated with the trade war and the pandemic (supply chain disruptions, PPE/vaccine export restrictions).
- At the same time: many political actors have tapped into these grievances in campaigns and messaging pinning the blame on globalization.
 - Soaring political narratives calling for protectionist policy, rather than evidence-based information on benefits & costs of trade;
 - Rise of digital platforms: substantially lowered the barriers to disseminating fast information and political messaging.

Backdrop

- Growing economic grievances have sowed the seeds for a backlash against globalization across many countries (Colantone et al., 2022)
 - Decline in manufacturing employment; weak labor market outcomes for low-skill workers; the rise in income inequality.
 - Anti-global sentiment further escalated with the trade war and the pandemic (supply chain disruptions, PPE/vaccine export restrictions).
- At the same time: many political actors have tapped into these grievances in campaigns and messaging pinning the blame on globalization.
 - Soaring political narratives calling for protectionist policy, rather than evidence-based information on benefits & costs of trade;
 - Rise of digital platforms: substantially lowered the barriers to disseminating fast information and political messaging.
- ⇒ Understanding how information backed by research might affect trade policy preferences is critical in the current environment.

This Project

Can *evidence-based information*, communicated in a concise manner, shift individuals' preferences for trade policy?

- Approach: survey experiments providing *randomized* evidence-based information on the gains and losses from trade
 - To isolate the effect of information from selection into information sources (c.f., Gentzkow and Shapiro 2010, 2011)

This Project

Can *evidence-based information*, communicated in a concise manner, shift individuals' preferences for trade policy?

- Approach: survey experiments providing *randomized* evidence-based information on the gains and losses from trade
 - To isolate the effect of information from selection into information sources (c.f., Gentzkow and Shapiro 2010, 2011)
 - <u>Treatments</u>: Narrative on the relationship between trade and U.S. labor market or price outcomes (drawing on recent economic research or data)

"Trade Hurts Jobs", "Trade Helps Jobs", "Trade Helps Prices", "Tariff Hurts Prices"

- Then solicit views on preferred economic policies.
- Note: Evidence-based information; not hypothetical scenarios or frames

This Project

Can *evidence-based information*, communicated in a concise manner, shift individuals' preferences for trade policy?

- Approach: survey experiments providing *randomized* evidence-based information on the gains and losses from trade
 - To isolate the effect of information from selection into information sources (c.f., Gentzkow and Shapiro 2010, 2011)
 - <u>Treatments</u>: Narrative on the relationship between trade and U.S. labor market or price outcomes (drawing on recent economic research or data)

"Trade Hurts Jobs", "Trade Helps Jobs", "Trade Helps Prices", "Tariff Hurts Prices"

- Then solicit views on preferred economic policies.
- Note: Evidence-based information; not hypothetical scenarios or frames

▶ Representative samples of U.S. general population (>18K respondents):

Multiple rounds over 2018-2022: spans a range of global and local shocks (pandemic, supply chain disruptions, BLM movement, elections, inflation...)

Preview of Findings

Evidence-based information influences trade policy preferences, but in *complex* and even unanticipated ways

- "Trade Hurts Jobs" significantly raises the likelihood of selecting protectionist policies ("more limits on imports")
- Strikingly, "Trade Helps Jobs", "Trade Helps Prices" and "Tariff Hurts Prices" also raise protectionist preference (asymmetric response to information)
- ▶ All the treatment effects documented in 2018-2019 hold in 2020-2022.

▲ □ ▶ ▲ □ ▶ ▲ □ ▶ □ □ ● ○ ○ ○

Preview of Findings (cont.)

What drives this surprising finding?

- Not driven by lack of comprehension
- Attention dampens protectionist reaction to information that "Trade Helps", but does not overturn it

<ロ> <四> < 回> < 回> < 回> < 回> < 回> < 回</p>

Preview of Findings (cont.)

What drives this surprising finding?

- Not driven by lack of comprehension
- Attention dampens protectionist reaction to information that "Trade Helps", but does not overturn it
- Treatments appear to interact with some markers of prior disposition toward protectionist policies
 - Consistent in particular with updating on the information received... but in a manner that is "prior-biased" (Charness and Dave 2017, Benjamin 2019)
- From directly asking: Strong priors associated with concerns about "imports from countries like China" and with "competition for US jobs"

Preview of Findings (cont.)

What drives this surprising finding?

- Not driven by lack of comprehension
- Attention dampens protectionist reaction to information that "Trade Helps", but does not overturn it
- Treatments appear to interact with some markers of prior disposition toward protectionist policies
 - Consistent in particular with updating on the information received... but in a manner that is "prior-biased" (Charness and Dave 2017, Benjamin 2019)
- From directly asking: Strong priors associated with concerns about "imports from countries like China" and with "competition for US jobs"
- Points to the challenge of communicating information about potential benefits of trade, unless prior concerns stemming from political identity, and related to jobs and China (geopolitics) are addressed.

Literature

- 1. Determinants of trade policy preferences (c.f., Baldwin 1989, Rodrik 1995):
 - Economic self-interests (Beaulieu 2002, Mayda and Rodrik 2005, Scheve and Slaughter 2001, Blonigen 2011, Blonigen and McGrew 2014, Mendez and van Patten 2022); Sociotropic concerns (Rotemberg 2003, Mansfield and Mutz 2009); Behavioral: Loss aversion (Freund and Ozcan 2008, Tovar 2009); Political identity (Grossman and Helpman 2021); Information (Ponzetto et al. 2020)
 - This paper: The role of information wrt the gains and losses from trade
- 2. Randomized survey experiments to address self-selection and unobservables in individuals' exposure to information (c.f., Stantcheva 2022):
 - Immigration (Facchini et al. 2016, Grigorieff et al. 2016, Alesina et al. 2019); Taxes and redistribution (Norton and Ariely 2011, Chow and Galak 2012, Kuziemko et al. 2015, Fisman et al. 2017, Alesina et al. 2018)
 - Trade (Hiscox 2006, Nguyen 2017, Rho and Tomz 2017, Di Tella and Rodrik 2019, Rodriguez et al. 2021, Stantcheva 2022)
 - This paper: Evidence-based information, succinctly communicated. Not hypothetical frames, short primes, assessments of/attempts to teach economic reasoning.

Survey Design

Survey Interface

- Mounted on Qualtrics
- User-friendly, to be completed in \approx 10 minutes.

We are a non-partisan group of academic researchers from Harvard University, George Washington University, and Dartmouth College.

The following is a short summary of this study to help you decide whether or not to be a part of this study. We are initiating a survey to understand views on globalization and policies among the general public, for academic research purposes.

The survey is completely voluntary, anonymous, and randomized. You must be a US resident above the age of 18 to participate in this survey. No name or personal identification information will be collected. Results of the survey that we make publicly available through our academic research may include summary data, but no individual responses will ever be posted. Although we ask for some broad biodata (such as gender, age, etc.), your response will be one of several hundred surveys answered on-site, so your personal identify cannot be inferred. If identifiers are removed from your identifiable private information that are collected during this research, that information could be used for future research studies or distributed to another investigator for future research studies without your additional informed consent.

12:29

We are a non-partisan group of academic researchers from Harvard University, George Washington University, and Dartmouth College.

The following is a short summary of this study to help you decide whether or not to be a part of this study. We are initiating a survey to understand views on globalization and policies among the general public, for academic research purposes.

The survey is completely voluntary, anonymous, and randomized. You must be a US resident above the age

Survey Interface

- Mounted on Qualtrics
- \blacktriangleright User-friendly, to be completed in \approx 10 minutes.

Structure of survey:

- 1. Gather respondent baseline characteristics
- 2. Administer information treatment
- 3. Solicit preferred policies
- 4. Validate and explain choices

Survey Instrument

- First part: Respondent background
 - Basic biodata:
 - gender, age, race, state (or country) of birth, state of residence, education, employment status, sector, household income
 - Background beliefs/positions:
 - which party's candidate did you support in the last presidential elections?
 - how much can you trust government to do what is right? what impact did NAFTA have on you and your family? children born into my community will have a better life than my generation?
 - satisfied with health of U.S. job market? willing to pay more for a U.S. brand? how big a problem is inequality in the U.S. today? how big a problem is inflation in the U.S. today?
 - gauge of loss aversion (avoiding a fee vs receiving a discount)
 - News Sources:
 - how often do you follow the news? main news sources

Survey Instrument (cont.)

Second part: Information treatment, drawn at random.

- 0. No information
- 1. "Trade Hurts Jobs"
- 2. "Trade Helps Jobs"

In later rounds: (i) Mixed Jobs treatments; (ii) "Sans China" variants 💽 💿

3. "Trade Helps Prices"

In later rounds: (i) "Sans China"; (ii) "Sans Cheaper" variants

4. "Tariff Hurts Prices"

Evidence-based, relatively "scientific" narratives; no misinformation/fake news Similar formats: Simplified, comparable texts and a figure.

Survey Instrument (cont.)

Third part: Solicit preferred policies.

Direct questions:

- Support placing more limits on imports? If yes, on which countries?
- Support an increase in US tariff rate to reduce imports? On which industries?
- Support signing free trade agreements with more countries?
- Of the following two policies, which do you prefer? More progressive taxes (higher tax rates on the top-income group); Higher tariff rates on foreign countries; Both policies; Neither
- (Support a minimum wage?)
- "Most preferred (MP)"; pick 3 of 8, presented in randomized order:
 - ★ More limits on imports from foreign countries (e.g., higher tariffs on imports);
 - \bigstar Exiting from existing free trade agreements; \bigstar More limits on immigration;
 - \bigstar Weakening the U.S. dollar, so that U.S. exports are more competitive;
 - \star Higher taxes on top income earners; \star Higher minimum wage;
 - ★ More benefits for the unemployed (e.g., unemployment insurance);
 - ★ Improving education and worker training

Survey Instrument (cont.)

Fourth part: Validate and Explain Choices

- Did the information from the research findings you read about earlier in this survey affect your views on trade policy (i.e., the use of tariffs or limits on imports)? 1 = Strongly agree; 5 = Strongly disagree
- What impact do you think being open to international trade has had for most Americans? 1 = Extremely good; 5 = Extremely bad
- Information read earlier in this survey was on the topic of:

trade and jobs; trade and prices; did not receive information

- I selected "More limits on imports" as a preferred policy because...
 - ★ I was persuaded/not persuaded; ★ Imports are often of lower quality;
 - ★ Imports are a potential threat to U.S. national security;
 - ★ Imports often compete for jobs with U.S. workers;
 - ★ I am concerned about U.S. imports from countries such as China;
 - ★ There are other more important concerns
 - Also: Open text question for any other reasons

◆□▶ ◆□▶ ◆ヨ▶ ◆ヨ▶ ヨヨ シの()

Implementation

- U.S. general-population samples. Representative by gender, age, race, education, region
 - Lines up with U.S. data on untargeted dimensions, e.g.: labor force participation rate, broad sector of employment
 Summary Stats
- Multiple rounds over 2018-2022:
 - Round 1: July 2018, April 2019
 - Round 2: April-June 2020 (Added "Tariff Hurts Prices", Prices variant treatments; covid questions)
 - Round 3: April-May 2021
 - (Added: Validation/explanation questions)
 - Round 4: April-August 2022
 - (Added Jobs "Sans China" treatments; inflation question)
 - Cumulative N: > 18,000

Survey Findings

Preferred Policies: Summary Statistics

Consistently across rounds:

- $\triangleright \approx 60\%$ support more limits on imports, when posed as a yes/no question.
- Compare against: 23-28% under the "choose three most preferred policies" question format (with slight uptick over time)

Instead, most support for: Education and worker training; Minimum wage; More progressive taxation

SURVEY:	Round 1, 2018-19 (N=2,277)	Round 2, 2020 (N=6,009)	Round 3, 2021 (N=4,058)	Round 4, 2022 (N=6,005)
Do you support placing more limits on imports? Would you support an increase in the US tariff rate?	0.57 [0.49] 0.28 [0.45]	0.62 [0.49] 0.25 [0.43]	0.59 [0.49] 0.25 [0.43]	0.58 [0.49] 0.32 [0.47]
Prefer: Higher tariff rates on foreign countries? Prefer: More progressive taxes? Would you support signing more FTAs?	0.44 [0.50] 0.68 [0.46] 0.68 [0.47]	0.50 [0.50] 0.65 [0.48] 0.65 [0.48]	0.47 [0.50] 0.68 [0.47] 0.65 [0.48]	0.48 [0.50] 0.68 [0.47] 0.64 [0.48]
Would you support a minimum wage?	0.78 [0.41]	0.80 [0.40]	0.74 [0.44]	0.78 [0.42]
Most Preferred Policies (pick 3 out of 8)				
More limits on foreign imports	0.23 [0.42]	0.27 [0.44]	0.28 [0.45]	0.28 [0.45]
Exiting from FTAs More limits on immigration	0.13 [0.34] 0.34 [0.47]	0.12 [0.33] 0.31 [0.46]	0.13 [0.34] 0.37 [0.48]	0.12 [0.33] 0.35 [0.48]
Weaken the USD	0.07 [0.26]	0.09 [0.29]	0.09 [0.28]	0.08 [0.28]
Higher taxes on top income earners	0.51 [0.50]	0.46 [0.50]	0.50 [0.50]	0.53 [0.50]
Higher minimum wage	0.61 [0.49]	0.60 [0.49]	0.56 [0.50]	0.61 [0.49]
More unemployment benefits Improve education and worker training	0.30 [0.46] 0.59 [0.49]	0.34 [0.47] 0.49 [0.50]	0.29 [0.45] 0.52 [0.50]	0.30 [0.46] 0.56 [0.50]

Regression specification

$$\mathbf{1}(Policy_i) = \sum_{b=1}^{B} \beta_b \mathbf{1}(Treatment_i = b) + X_i + \epsilon_i$$

- ▶ 1(*Policy_i*): Dummy variable for respondent *i*'s policy preference
- I(Treatment_i = b): Dummy for whether respondent i received treatment b (Omitted category: Pure control with no information)
- β_b : Effect of treatment relative to the control subsample
- With randomization, respondent characteristics are balanced across treatment subsamples

Regression specification

$$\mathbf{1}(\textit{Policy}_i) = \sum_{b=1}^{B} \beta_b \mathbf{1}(\textit{Treatment}_i = b) + X_i + \epsilon_i$$

X_i: Auxiliary controls. (Note: Not crucial for identification.)

- Biodata: Dummies for gender, age group, race, level of studies, household income bins, employment status (incl. broad sector), BEA region of birth (incl. foreign-born category)
- Prior Political position: Party of candidate supported in most recent presidential election
- News consumption: Frequency following current affairs; Main news program source
- County characteristics: Share college educated, ADH 2000s China import shock, manufacturing employment share urban dummy, missing dummy. (Successfully merged for >95% of respondents.)
- Survey characteristics: Dummy for mobile device. Week dummies.
- Logit regressions, with standard errors clustered by county of residence
- Also: OLS on first principal component measure (constructed to be increasing in preferences for more limits on trade)

・ロト ・同ト ・ヨト ・ヨト ショー ショク

Effects of Information Treatments: Pre-Covid, 2018-2019

Jobs treatments:

- "Trade Hurts Jobs" raises propensity toward protectionist policies
- "Trade Helps Jobs" treatment: no effect

Trade Policy Questions:	(1)	(2)	(3)	(4)	(5) Most Pref.:	(6)
Trade Policy Questions.	More limits on imports	US tariff rate increase	Support higher tariff	Support more FTAs	More limits on Imports	First principal component
	Logit	Logit	Logit	Logit	Logit	OLS
Treatment dummies:						
Trade Hurts Jobs	0.060*	0.045*	0.083***	-0.046	0.080***	0.282***
	[0.032]	[0.026]	[0.032]	[0.030]	[0.024]	[0.076]
Trade Helps Jobs	0.007	0.033	0.064	0.017	0.040	0.135
	[0.035]	[0.034]	[0.041]	[0.032]	[0.027]	[0.098]
Trade Helps Prices	0.057*	0.018	0.071*	-0.007	0.069**	0.211**
	[0.034]	[0.030]	[0.039]	[0.032]	[0.028]	[0.089]
Most Pref., Randomization Order					-0.021	0.003
,					[0.022]	[0.011]
Last Pres. Election:	-0.042	-0.043*	-0.043	0.091***	-0.064***	-0.259***
Supported Democrat	[0.029]	[0.022]	[0.026]	[0.027]	[0.019]	[0.075]
Last Pres. Election:	0.224***	0.147***	0.219***	-0.034	0.092***	0.728***
Supported Republican	[0.030]	[0.028]	[0.029]	[0.029]	[0.023]	[0.081]
Individual, county, week controls?	Y	Y	Y	Y	Y	Y
Observations	2,277	2.277	2.277	2,277	2,277	2,277
(Pseudo) R-squared	0.0970	0.103	0.0742	0.0746	0.0783	0.183
(i boadd) i'r bqaalou	0.0070	5.105	0.0142			

Alfaro, Chen, Chor

17 / 28

= 990

Effects of Information Treatments: Pre-Covid, 2018-2019

Prices treatments:

 "Trade Helps Prices" also raises propensity to select more protectionist policies

Trade Policy Questions:	(1)	(2)	(3)	(4)	(5) Most Pref.:	(6)	
	More limits on imports	US tariff rate increase	Support higher tariff	Support more FTAs	More limits on Imports	First principal component	
	Logit	Logit	Logit	Logit	Logit	OLS	
Treatment dummies:							
Trade Hurts Jobs	0.060*	0.045*	0.083***	-0.046	0.080***	0.282***	
	[0.032]	[0.026]	[0.032]	[0.030]	[0.024]	[0.076]	
Trade Helps Jobs	0.007	0.033	0.064	0.017	0.040	0.135	
	[0.035]	[0.034]	[0.041]	[0.032]	[0.027]	[0.098]	
Trade Helps Prices	0.057*	0.018	0.071*	-0.007	0.069**	0.211**	
	[0.034]	[0.030]	[0.039]	[0.032]	[0.028]	[0.089]	
Most Pref., Randomization Order					-0.021	0.003	
					[0.022]	[0.011]	
Last Pres. Election:	-0.042	-0.043*	-0.043	0.091***	-0.064***	-0.259***	
Supported Democrat	[0.029]	[0.022]	[0.026]	[0.027]	[0.019]	[0.075]	
Last Pres. Election:	0.224***	0.147***	0.219***	-0.034	0.092***	0.728***	
Supported Republican	[0.030]	[0.028]	[0.029]	[0.029]	[0.023]	[0.081]	
Individual, county, week controls?	Y	Y	Y	Y	Y	Y	
Observations	2,277	2,277	2,277	2,277	2,277	2,277	
(Pseudo) R-squared	0.0970	0.103	0.0742	0.0746	0.0783	0.183	
				- U - F			i - C

Alfaro, Chen, Chor

Effects of Information Treatments: 2020-2022

Jobs treatments:

- "Trade Hurts Jobs" continues to induce a preference for protection
- "Trade Helps Jobs" effect now positive and marginally significant

Trade Policy Questions:	(1) More limits on imports	(2) US tariff rate increase	(3) Support higher tariff	(4) Support more FTAs	(5) Most Pref.: More limits on Imports	(6) First principal component	(7) Did information affect views?	(8) Impact of trade for most Americans?
	Logit	Logit	Logit	Logit	Logit	OLS	Ordered logit	Ordered logit
Treatment dummies:								
Trade Hurts Jobs	0.091*** [0.017]	0.071*** [0.015]	0.036** [0.017]	-0.038** [0.018]	0.033** [0.015]	0.242*** [0.043]	0.048*** [0.015]	-0.248*** [0.016]
Trade Helps Jobs	0.023 [0.018]	0.023 [0.015]	0.026 [0.018]	-0.006 [0.019]	0.009 [0.015]	0.081* [0.044]	0.030* [0.016]	-0.025* [0.015]
Trade Helps Prices	0.057*** [0.017]	0.027* [0.014]	-0.005 [0.017]	-0.001 [0.017]	0.031** [0.015]	0.109*** [0.042]	0.028* [0.015]	-0.058*** [0.015]
Tariff Hurts Prices	0.040** [0.017]	0.020 [0.014]	0.017 [0.017]	-0.004 [0.017]	0.023 [0.016]	0.099** [0.042]	0.046*** [0.016]	-0.164*** [0.016]
Most Pref., Randomization Order					-0.011*** [0.002]	-0.019*** [0.006]		
Last Pres. Election: Supported Democrat	0.003	0.006 [0.011]	-0.042*** [0.016]	0.124*** [0.014]	-0.040*** [0.012]	-0.141*** [0.035]	0.093***	0.089*** [0.012]
Last Pres. Election: Supported Republican	0.193*** [0.016]	[0.011] 0.122*** [0.013]	0.143*** [0.015]	-0.037** [0.015]	0.141*** [0.015]	0.625*** [0.040]	[0.013] 0.084*** [0.013]	-0.002 [0.013]
Individual, county, week controls?	Y	Y	Y	Y	Y	Y	Y	Y
Observations (Pseudo) R-squared	9,275 0.0766	9,275 0.0801	9,275 0.0471	9,275 0.0698	9,275 0.0796	9,275 0.153	9,275 0.0488	9,275 0.0569

Effects of Information Treatments: 2020-2022

Prices treatments:

- Replicate the finding that "Trade Helps Prices" shifts respondents in a protectionist direction
- Similar result with "Tariff Hurts Prices"

Trade Policy Questions:	(1) More limits on imports	(2) US tariff rate increase	(3) Support higher tariff	(4) Support more FTAs	(5) Most Pref.: More limits on Imports	(6) First principal component	(7) Did information affect views?	(8) Impact of trade for most Americans?
	Logit	Logit	Logit	Logit	Logit	OLS	Ordered logit	Ordered logit
Treatment dummies:								
Trade Hurts Jobs	0.091*** [0.017]	0.071*** [0.015]	0.036** [0.017]	-0.038** [0.018]	0.033** [0.015]	0.242*** [0.043]	0.048*** [0.015]	-0.248*** [0.016]
Trade Helps Jobs	0.023 [0.018]	0.023 [0.015]	0.026 [0.018]	-0.006 [0.019]	0.009 [0.015]	0.081* [0.044]	0.030* [0.016]	-0.025* [0.015]
Trade Helps Prices	0.057*** [0.017]	0.027* [0.014]	-0.005 [0.017]	-0.001 [0.017]	0.031** [0.015]	0.109*** [0.042]	0.028* [0.015]	-0.058*** [0.015]
Tariff Hurts Prices	0.040** [0.017]	0.020 [0.014]	0.017 [0.017]	-0.004 [0.017]	0.023 [0.016]	0.099** [0.042]	0.046*** [0.016]	-0.164*** [0.016]
Most Pref., Randomization Order					-0.011*** [0.002]	-0.019*** [0.006]		
Last Pres. Election: Supported Democrat Last Pres. Election: Supported Republican	0.003 [0.014] 0.193*** [0.016]	0.006 [0.011] 0.122*** [0.013]	-0.042*** [0.016] 0.143*** [0.015]	0.124*** [0.014] -0.037** [0.015]	-0.040*** [0.012] 0.141*** [0.015]	-0.141*** [0.035] 0.625*** [0.040]	0.093*** [0.013] 0.084*** [0.013]	0.089*** [0.012] -0.002 [0.013]
Individual, county, week controls?	Y	Y	Y	Y	Y	Y	Y	Y
Observations (Pseudo) R-squared	9,275 0.0766	9,275 0.0801	9,275 0.0471	9,275 0.0698	9,275 0.0796	9,275 0.153	9,275 0.0488	9,275 0.0569
	•				< □		< ≣ > < a	E) - E(B)

Alfaro, Chen, Chor

18 / 28

Effects of Information Treatments: 2020-2022

- Consistent with the above, respondents directly affirm that treatments affected their views on trade policy...
- ... and treatments associated with a worsening in respondents' assessment of the impact of trade for most Americans

Trade Policy Questions:	(1) More limits on imports	(2) US tariff rate increase	(3) Support higher tariff	(4) Support more FTAs	(5) Most Pref.: More limits on Imports	(6) First principal component	(7) Did information affect views?	(8) Impact of trade for most Americans?
	Logit	Logit	Logit	Logit	Logit	OLS	Ordered logit	Ordered logit
Treatment dummies:								
Trade Hurts Jobs	0.091***	0.071***	0.036**	-0.038**	0.033**	0.242***	0.048***	-0.248***
	[0.017]	[0.015]	[0.017]	[0.018]	[0.015]	[0.043]	[0.015]	[0.016]
Trade Helps Jobs	0.023	0.023	0.026	-0.006	0.009	0.081*	0.030*	-0.025*
	[0.018]	[0.015]	[0.018]	[0.019]	[0.015]	[0.044]	[0.016]	[0.015]
Trade Helps Prices	0.057***	0.027*	-0.005	-0.001	0.031**	0.109***	0.028*	-0.058***
Tariff Hurts Prices	[0.017] 0.040**	[0.014] 0.020	[0.017] 0.017	[0.017] -0.004	[0.015] 0.023	[0.042] 0.099**	[0.015] 0.046***	[0.015]
Talli Fluits Flices	[0.040	[0.014]	[0.017]	[0.017]	[0.023	[0.042]	[0.016]	[0.016]
Most Pref., Randomization Order					-0.011***	-0.019***		
Last Pres. Election:	0.003	0.006	-0.042***	0.124***	-0.040***	-0.141***	0.093***	0.089***
Supported Democrat	[0.014]	[0.011]	[0.016]	[0.014]	[0.012]	[0.035]	[0.013]	[0.012]
Last Pres. Election:	0.193***	0.122***	0.143***	-0.037**	0.141***	0.625***	0.084***	-0.002
Supported Republican	[0.016]	[0.013]	[0.015]	[0.015]	[0.015]	[0.040]	[0.013]	[0.013]
Individual, county, week controls?	Y	Y	Y	Y	Y	Y	Y	Y
Observations	9,275	9,275	9,275	9,275	9,275	9,275	9,275	9,275
(Pseudo) R-squared	0.0766	0.0801	0.0471	0.0698	0.0796	0.153	0.0488	0.0569

Alfaro, Chen, Chor

18 / 28

Effects of Information Treatments: Further Remarks

Magnitude: Marginal effect of "Trade Hurts Jobs" about 1/3 that of self-identifying as a Republican presidential candidate supporter

Asymmetric response to information about benefits and losses from trade

- Contrast with Rodriguez et al. (2021), Stantcheva (2022): positive impact of trade information, respondents become more protectionist.
- Additional treatments:
 - Mixed jobs treatments: Positive effect, size in between pure "Trade Hurts Jobs" and "Trade Helps Jobs" • Go
 - "Trade Helps Prices sans Cheaper", "sans China": Effect persists
- - Age; Household income; Employed in Ag/Mi/Mf (relative to Sv sector)
 - Candidate supported in presidential election; Media consumption (Fox News)
 - Mobile device respondents
- Understanding and Attention: Go
 - Respondents were on average able to correctly recall broad nature of information received ("about jobs" vs "about prices")
 - More time spent on treatment screen: amplified protectionist response for "Trade Hurts Jobs"; dampened response for "Trade Helps", "Tariff Hurts" (though not overturned)

Exploring Underlying Mechanisms

Approach: Augment baseline regressions with interaction terms between treatment dummies and underlying respondent characteristics, x_i , that proxy for potential prior markers of preferences for protection

Various forces/channels explored (c.f., Baldwin 1989, Rodrik 1995):

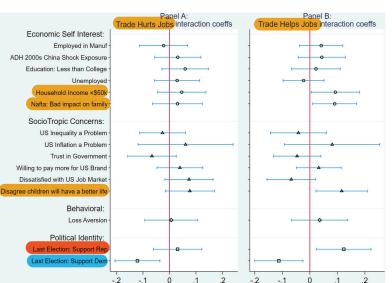
- a. Economic Self-Interest
 - Personal/Household exposure: through industry (Ricardo-Viner), skill group (Stolper-Samuelson), or location (Autor-Dorn-Hanson)
- b. Social/Sociotropic concerns: (Mansfield and Mutz 2009)
 - Over... Income Inequality; Inflation; Supporting U.S. products; Trust in government; Health of U.S. job market; Outlook for future generations
- Behavioral explanations: Loss aversion (Kahneman and Tversky 1979, 1984; Freund and Ozden 2008, Tovar 2009)
- d. Identity Politics: Echo the trade policy position/ideology of the political party with which you identify (Grossman and Helpman 2021)

◆□▶ ◆□▶ ◆ヨ▶ ◆ヨ▶ ヨヨ シの()

Introduction and Overview The Globalization and Economic Policy Survey

Findings: Information Treatments and Policy Preferences Findings: Exploring Mechanisms

Mechanisms: Interaction coefficients $(\alpha_b \mathbf{1}(Treatment_i = b) \times x_i)$



Alfaro, Chen, Chor

21/28

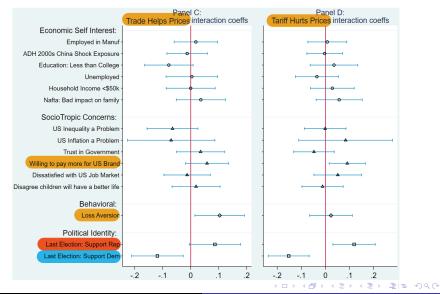
EL OQA

Introduction and Overview The Globalization and Economic Policy Survey

Design and Implementation Findings: Information Treatments and Policy Preferences Findings: Exploring Mechanisms

Mechanisms: Interaction coefficients $(\alpha_b 1(Treatment_i = b) \times x_i)$

▶ Main eff.



Alfaro, Chen, Chor

21/28

Exploring Underlying Mechanisms: Summing Up

- Find cases where: Protectionist response is stronger for households with low income, negative experience with NAFTA (economic exposure); also, those with a pessimistic outlook for the next generation, those willing to pay more for a US brand (sociotropic); and those who display greater loss aversion (behavioral)
- Across all treatments: Heterogeneous responses by prior political position, consistent with the role of identity politics
- Patterns consistent with a form of confirmation bias: prior-biased updating. (Charness and Dave 2017, Benjamin 2019)
 - Information that "Trade Helps" that is at odds with one's prior disposition leads to updating of preferences in the opposite direction ("doubling down")

(Other egs.: Soroka 2006 on asymmetric response to good vs bad economic information; Nyhan and Reifler 2010, Barrera et al. 2020 on fact-checking.)

Another possibility (less likely): Information avoidance (Goldman et al. 2017)

Why "More limits on imports" as an MP policy?

н

- Directly ask.
- Concerns about China and Jobs receive the highest agreement scores, consistently across treatments (regardless of whether "with China" or "sans China" in wording; or whether treatment is about jobs or prices)

Reasons: (5=Strongly agree, 1=Strongly disagree)	Not persuaded	Imports often lower quality	Imports potential threat to National security	Imports often compete for US jobs	Concerned about imports from China	Other more important concerns
Information Treatment received:						
Control (N = 302)		3.54 [1.08]	3.41 [1.12]	3.85 [1.09]	3.96 [1.08]	3.61 [1.01]
Trade Hurts Jobs (N = 270)	3.84 [1.02] Pers.	3.74 [0.96]	3.47 [1.00]	4.09 [0.91]	4.04 [0.99]	3.81 [0.94]
Trade Hurts Jobs sans China (N = 183)	3.65 [1.07] Pers.	3.64 [1.01]	3.56 [1.05]	3.98 [1.01]	3.83 [1.11]	3.70 [1.02]
Trade Helps Jobs (N = 238)	3.62 [1.04]	3.79 [1.04]	3.69 [1.07]	4.06 [0.98]	4.29 [0.97]	3.80 [0.95]
Trade Helps Jobs sans China (N = 171)	3.63 [0.92]	3.63 [1.00]	3.40 [0.99]	3.92 [0.96]	3.94 [1.18]	3.60 [0.99]
Trade Helps Prices (N = 250)	3.30 [1.02]	3.75 [0.99]	3.43 [1.06]	4.06 [0.99]	4.05 [0.98]	3.90 [0.85]
Trade Helps Prices sans China (N = 256)	3.50 [1.08]	3.70 [1.09]	3.53 [1.13]	4.09 [1.00]	4.08 [1.08]	3.81 [1.03]
Tariff Hurts Prices (N = 245)	3.27 [1.06]	3.61 [1.15]	3.50 [1.11]	3.94 [1.05]	4.12 [1.01]	3.70 [0.99]
All other Treatments (N = 775)	3.49 [1.09]	3.72 [1.06]	3.55 [1.05]	4.01 [1.00]	4.09 [0.99]	3.68 [0.95]

23 / 28

Design and Implementation Findings: Information Treatments and Policy Preferences Findings: Exploring Mechanisms

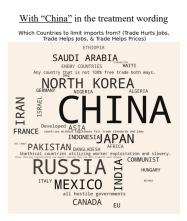
Word Clouds: Other reasons for preference to limit imports?



Treatments about Prices

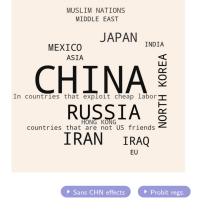
Why MP limit imports: Other (Trade Helps Prices & Trade Helps Prices sans China) CHANGE WEAKENS ECONOMY/NATION NEED MORE MONITORING HIGHER TARIEE REVENUE SECURITY DEPENDS ON THE COUNTRY ONLY SUP TRADE IS UNFAIR ΙΤΤΥ DON'T TRUST MODE EXDODIS MPORTS PROTECT IC INDUSTRIES OFFSHORING AN TRADE BALANCE QUALITY CONCI EXPORTING IS EXPENSIVE NATIONAL DEFICIT DISEASES INCREASE MANUFACTURING PAST

Word Clouds: Limit imports on which countries?



"Sans China" in the treatment wording

Which Countries to limit imports from? (Trade Hurts Jobs sans China, Trade Helps Jobs sans China, & Trade Helps Prices sans China)



Why "More limits on imports" as an MP policy?

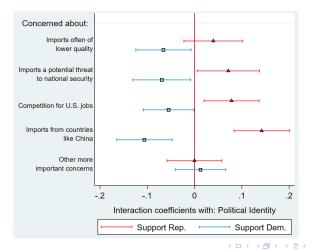
Respondents more likely to highlight concerns about imports from China and about jobs (relative to being persuaded/not persuaded), regardless of whether treatment is "with" or "sans China".

	(1)	(2)	(3)		
Dependent variable: (5=Strongly agree, 1=Strongly disagree)		Agreement Score: mits on Imports" as a l	Agreement Score: its on Imports" as a Most Preferred Policy		
Treaments in sample:	Trade Hurts Jobs with/sans China	Trade Helps Jobs with/sans China	Trade Helps Prices with/sans China		
Omitted category:	Persuaded	Not persuaded	Not persuaded		
Quality Concerns	-0.011 [0.087]	0.009 [0.078]	0.201** [0.080]		
National Security	-0.092 [0.085]	-0.224** [0.093]	0.034 [0.088]		
Compete with Jobs	0.327*** [0.074]	0.297*** [0.079]	0.590*** [0.077]		
Concerns about imports from China	0.181** [0.080]	0.316***	0.586*** [0.083]		
Other reasons	0.049 [0.081]	-0.025 [0.082]	[0.083] 0.316*** [0.084]		
With China × Reason:					
Quality Concerns	-0.101 [0.114]	0.160 [0.106]	0.249** [0.110]		
National Security	-0.282** [0.111]	0.282** [0.122]	0.087		
Compete with Jobs	-0.077	0.145	0.170		
Concerns about imports from China	[0.095] 0.014 [0.105]	[0.109] 0.346*** [0.122]	[0.108] 0.160 [0.111]		
Other reasons	-0.068 [0.106]	0.215** [0.108]	0.282** [0.111]		

Alfaro, Chen, Chor

Why "More Limits on Imports"? The Role of Political Identity

Interaction with political identity: Republican supporters more likely to highlight concerns about imports from China; converse for Democrats.



-

Summary

- Information that "Trade Hurts Jobs" shifts preferences in favor of protection
- Surprisingly: Information that "Trade Helps" or "Tariff Hurts" also exerts similar effects
- Randomization allows for a causal interpretation, while consistent finding across different survey rounds lends credence
- Mechanisms:
 - Not driven by a misunderstanding of information or lack of persuasion.
 - Suggestive evidence that more time-intensive treatments can dampen the protectionist response to "Trade Helps" information.
 - Information interacts with several respondent characteristics especially political identity – in a manner consistent with prior-biased updating.
 - Importantly: Among those who selected "more limits on imports" as a most-preferred policy, the information appears to have reinforced prior concerns over jobs and China, and amplified protectionist preferences.

・ロト ・同ト ・ヨト ・ヨト ショー ショイ

Summary

- Broader picture: What does this imply for public communication on the benefits and costs of globalization?
 - Individuals' trade policy preferences are not a symmetric function of the expected gains and losses from trade, but instead shaped by political priors, and pre-existing concerns on jobs and US-China relations.
 - Public messaging that focuses solely on communicating the benefits of trade are unlikely to succeed unless they address broader geopolitical concerns and concerns about the impact on jobs.
- Open and challenging questions for future work:
 - Implications for the design of information narratives? How to elicit more engagement and attention? How to pre-empt or assuage concerns about the impact on jobs or US-China economic (and even geopolitical) competition?
 - Other countries: Is this a US-specific finding or one shared by countries that have been similarly exposed to large increases in imports from China?

How about attitudes in small open economies more dependent on trade? How about capital flows?

◆□▶ ◆□▶ ◆ヨ▶ ◆ヨ▶ ヨヨ シスペ

Supplementary Slides

Treatments: Preamble

Preamble:

How have globalization and imports affected workers and households? Economic researchers have been studying this issue.



▶ Go: Trade Helps Jobs

▶ Go: Trade Helps Prices

▶ Go: Tariff Hurts Prices

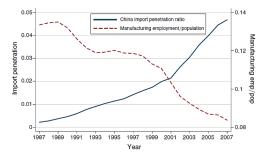
< < >> < <</>

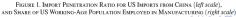
< E ▶ < E ▶ E = のQ (~

Treatment: "Trade Hurts Jobs" • Back

Based on Autor, Dorn and Hanson (AER 2013):

A line of recent research has shown that the United States substantially increased its imports from China, after China joined the World Trade Organization (WTO) in 2001. This was a major force behind the fall in U.S. employment in the manufacturing sector, as the figure below shows. This led to weak wage growth for the middle- and low-income workers who used to hold these manufacturing jobs.



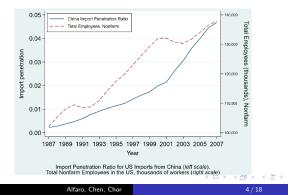


ヨヨー わすゆ

Treatment: "Trade Helps Jobs" • Back

Based on Caliendo, Dvorkin, Parro (2019):

A line of recent research has shown that the United States substantially increased its imports from China after China joined the World Trade Organization (WTO) in 2001. This enabled the U.S. to specialize more in the service sectors in which it is particularly productive, helping to increase the number of jobs in the U.S. economy. The figure below shows that the rise in total jobs over the last decades was substantial.

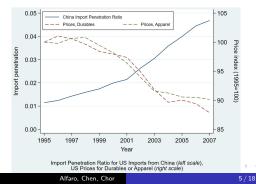


ヨヨー わすゆ

Treatment: "Trade Helps Prices" • Back

Based on BLS data:

A line of recent research has shown that the United States substantially increased its imports from China, after China joined the World Trade Organization (WTO) in 2001. This was a major force behind the availability of cheaper goods, which benefited Americans. As imports from China increased, the prices of durable goods (computers, electrical products, furniture, etc.) and of nondurable goods such as apparel all saw declines, as the figure below shows.

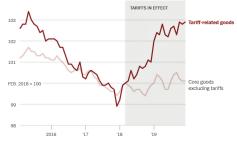


ELE DOG

Treatment: "Tariff Hurts Prices" Back

Based on Amiti, Redding, Weinstein (JEP 2019):

A line of recent research has shown that the tariffs in 2018 have raised the cost of living in the United States. Over the course of 2018, the U.S. imposed tariffs on approximately \$400 billion of imports, particularly from China. This led to significant increases in U.S. prices of tariff-related goods, as the figure below shows. It is estimated that this increase in prices lowered U.S. real income by \$1.4 billion per month.



Core goods consumer price index

Source: Bureau of Labor Statistics. Core goods excludes food and energy; tariff-related goods prices includes laundry equipment and other appliances, furniture and bedding, housekeeping supplies, window and floor coverings, auto parts and bicycles.

Alfaro, Chen, Chor

6/18

JIN NOR

Additional Treatments (in later rounds)

Mixed Jobs treatments:

- "Trade Hurts Jobs" + "Trade Helps Jobs"
- "Trade Helps Jobs" + "Trade Hurts Jobs"
- "Trade Helps Prices sans Cheaper":
 - Replace "the availability of cheaper goods" with "the increased availability of goods"
- "Sans China" variants of "Trade Hurts Jobs", "Trade Helps Jobs", and "Trade Helps Prices":
 - "A line of recent research has shown that the United States substantially increased its imports from the rest of the world, as a result of globalization."

◆□▶ ◆□▶ ◆ヨ▶ ◆ヨ▶ ヨヨ シスペ

Comparing Respondent Pools (over time) • Back

SURVEY:	Round 1, 2018-19 (N=2,277)	Round 2, 2020 (N=6,009)	Round 3, 2021 (N=4,058)	Round 4, 2022 (N=6,005)
Biodata				
Gender: Male	0.49 [0.50]	0.47 [0.50]	0.49 [0.50]	0.48 [0.50]
Gender: Female	0.51 [0.50]	0.52 [0.50]	0.51 [0.50]	0.52 [0.50]
Age: Average (approx.)	47.55 [16.78]	45.45 [16.61]	46.55 [16.69]	46.45 [16.78]
Race: White	0.61 [0.49]	0.67 [0.47]	0.62 [0.48]	0.62 [0.49]
Race: African-American	0.11 [0.32]	0.13 [0.33]	0.12 [0.32]	0.12 [0.33]
Race: Hispanic	0.17 [0.37]	0.13 [0.34]	0.18 [0.38]	0.17 [0.38]
Born in US?	0.92 [0.27]	0.92 [0.27]	0.91 [0.28]	0.92 [0.28]
Socio-Economic Characteristics				
Household Income: Average \$ (approx.)	58,196 [47,585]	64,886 [54,093]	62,010 [49,462]	58,785 [45,827]
Education: Average years (approx.)	11.81 [4.91]	11.56 [4.86]	11.71 [4.87]	11.70 [4.86]
Employment Status: Not in Labor Force	0.40 [0.49]	0.39 [0.49]	0.39 [0.49]	0.39 [0.49]
Employment Status: Unemployed	0.10 [0.30]	0.11 [0.32]	0.10 [0.30]	0.10 [0.30]
Employment Status: Employed	0.50 [0.50]	0.50 [0.50]	0.50 [0.50]	0.51 [0.50]
Employment Sector: Manufacturing	0.08 [0.26]	0.09 [0.28]	0.07 [0.26]	0.07 [0.26]
Employment Sector: Services	0.39 [0.49]	0.36 [0.48]	0.39 [0.49]	0.40 [0.49]
Student?	0.03 [0.17]	0.04 [0.20]	0.04 [0.20]	0.03 [0.17]
Loss aversion (Scale: 1 to 5)		3.11 [1.47]	3.07 [1.50]	3.06 [1.50]
Baseline Socio-Political Attributes				
Last Presidential election: Supported Dem.	0.41 [0.49]	0.41 [0.49]	0.49 [0.50]	0.44 [0.50]
Last Presidential election: Supported Rep.	0.34 [0.47]	0.36 [0.48]	0.33 [0.47]	0.34 [0.47]
Trust in government? (Scale: 1 to 5)	2.50 [1.05]	2.79 [1.13]	2.69 [1.11]	2.55 [1.08]
Impact of NAFTA on family (Scale: 1 to 5)	3.16 [0.90]	3.35 [0.90]	3.31 [0.87]	3.11 [0.91]
Children born into better life? (Scale: 1 to 5)	3.07 [1.13]	3.23 [1.10]	3.16 [1.15]	2.95 [1.14]
Satisfied with health of US job market?	0.48 [0.50]	0.35 [0.48]	0.40 [0.49]	0.41 [0.49]
Willing to pay more for US brand?	0.59 [0.49]	0.65 [0.48]	0.63 [0.48]	0.61 [0.49]
Inequality in US a problem? (Scale: 1 to 4)	3.01 [0.96]	2.96 [0.95]	2.97 [0.96]	2.99 [0.94]
Inflation in US a problem? (Scale: 1 to 4)				3.42 [0.80]

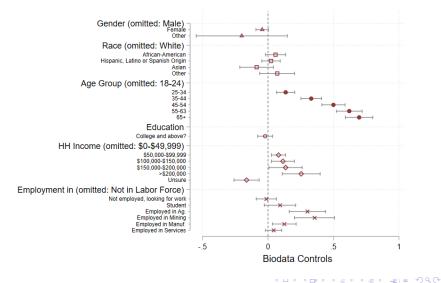
Alfaro, Chen, Chor

Comparing Respondent Pools (over time) • Back

SURVEY:	Round 1, 2018-19 (N=2,277)	Round 2, 2020 (N=6,009)	Round 3, 2021 (N=4,058)	Round 4, 2022 (N=6,005)
News consumption patterns				
Number of days per week (approx.)	5.02 [2.47]	5.29 [2.34]	5.01 [2.43]	4.87 [2.52]
Main tv source: Broadcast tv	0.29 [0.45]	0.26 [0.44]	0.25 [0.43]	0.26 [0.44]
Main tv source: CNN, MSNBC	0.17 [0.37]	0.21 [0.40]	0.20 [0.40]	0.16 [0.37]
Main tv source: Fox News	0.16 [0.36]	0.17 [0.38]	0.15 [0.36]	0.16 [0.37]
Location Characteristics				
Share with college and above (age>=25)	0.30 [0.11]	0.31 [0.12]	0.31 [0.11]	0.30 [0.10]
Autor-Dorn-Hanson measure for 2000s	2.56 [1.82]	2.57 [2.11]	2.54 [1.77]	2.61 [2.02]
Share of manufacturing in employment	0.16 [0.11]	0.16 [0.11]	0.16 [0.11]	0.16 [0.11]
Urban?	0.86 [0.35]	0.87 [0.33]	0.86 [0.35]	0.85 [0.35]
Survey Characteristics				
Duration to complete (secs.)	727 [1,513]	912 [2,292]	888 [1,015]	897 [925]
Treatment duration	47 [66]	28 [84]	28 [58]	26 [64]
Mobile device?	0.61 [0.49]	0.70 [0.46]	0.58 [0.49]	0.54 [0.50]

< 三 × 三 × 三 × < 三 ×

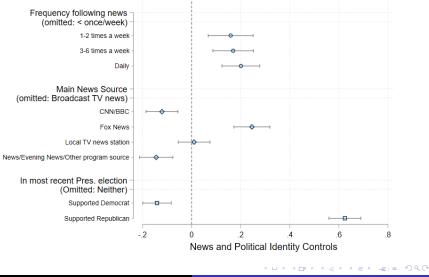
Baseline Results: Other Covariates Back



Alfaro, Chen, Chor

9/18

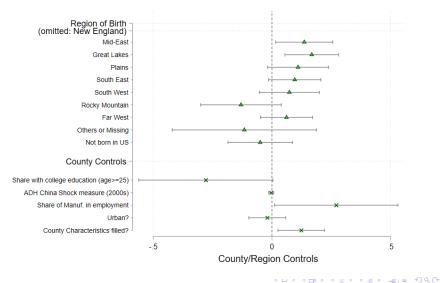
Baseline Results: Other Covariates • Back



Alfaro, Chen, Chor

9/18

Baseline Results: Other Covariates Back



Alfaro, Chen, Chor

Misunderstanding of information?

▶ Back

- Respondents were on average able to correctly recall broad nature of information received ("about jobs" vs "about prices").
- Moreover: Positive treatment effects load on respondents with correct recall!

Trade Policy Questions:	(1) Info received on jobs? Logit	(2) Info received on prices? Logit	(3) First principal component OLS Info recall incorrect	(4) First principal component OLS Info recall correct
Trade Hurts Jobs	0.130*** [0.018]	-0.044*** [0.017]	0.086* [0.051]	0.606***
Trade Helps Jobs	0.149***	-0.062***	-0.016	0.350***
Trade Helps Prices	[0.016] -0.050***	[0.017] 0.139***	[0.055] 0.070	[0.083] 0.315***
Tariff Hurts Prices	[0.015] -0.056*** [0.015]	[0.018] 0.125*** [0.016]	[0.061] 0.057 [0.058]	[0.077] 0.313*** [0.078]
Individual, county, week, rand. order controls?	Y	Y	Y	Y
Observations (Pseudo) R-squared	9,275 0.0422	9,275 0.0313	5,080 0.147	4,195 0.178

Summary Stats

Attention?

More time spent on treatment screen associated with...

- amplified protectionist response for "Trade Hurts Jobs"
- dampened response for "Trade Helps", "Tariff Hurts" (though not overturned) Extended attention may enhance the effectiveness of a counter narrative.

(1) Info correct? Logit	(2) First principal component OLS	(3) First principal component OLS	(4) First principal component OLS
All	Below median	Above median	Top quintile
0.251*** [0.013]			
[0.012]			
	0.162***	0.330***	0.497*** [0.080]
	0.116** [0.050]	0.051 [0.057]	0.057
	0.141***	0.090*	0.060
	0.154*** [0.048]	0.057 [0.058]	0.020 [0.082]
Y	Y	Y	Y
9,275 0.0632	5,760 0.143	5,754 0.172	3,643
	Info correct? Logit All 0.251*** [0.013] -0.028** [0.012] Y 9,275	Info correct? First principal component component Logit OLS All Below median 0.251*** [0.013] -0.028** [0.012] 0.162**** [0.050] 0.116** [0.050] 0.116*** [0.050] 0.141*** [0.43] Y Y 9.275 5,760	Info correct? First principal component First principal component First principal component Logit OLS OLS All Below median Above median 0.251*** [0.013] -0.028** [0.012] 0.162*** 0.330*** 0.050] [0.057] 0.161** 0.050] [0.057] 0.161** 0.161** 0.090* [0.050] 0.141*** 0.090* [0.053] 0.154*** 0.057 [0.048] Y Y Y 9.275 5.760 5.754

Alfaro, Chen, Chor

Recall of Information: Summary Statistics Back

SURVEY	Round 2, 2020 (N=6,009)	Round 3, 2021 (N=4,058)	Round 4, 2022 (N=6,035)
Share of respondents who said information was about jobs	0.34 [0.47]	0.36 [0.48]	0.35 [0.48]
Share of respondents who said information was about prices	0.52 [0.50]	0.49 [0.50]	0.51 [0.50]
Share of respondents who said no information received	0.14 [0.35]	0.14 [0.35]	0.14 [0.35]
Correctly identified nature of information treatment	0.47 [0.50]	0.52 [0.50]	0.48 [0.50]
Conditional on receiving a treatment about jobs, correctly identified as such	0.42 [0.49]	0.49 [0.50]	0.46 [0.50]
Conditional on receiving a treatment about prices, correctly identified as such	0.59 [0.49]	0.63 [0.48]	0.65 [0.48]
Conditional on receiving no information treatment, correctly identified as such	0.19 [0.40]	0.25 [0.43]	0.22 [0.42]

Additional results: Mixed Jobs Treatments

- "Trade Hurts Jobs" effect
 - > Mixed jobs information > "Trade Helps Jobs" effect
- Effect size slightly stronger if "Hurts" information sequenced after "Helps"

Trade Policy Questions:	(1) First principal component	First principal Did information	
	OLS	Ordered logit	Ordered logit
Panel A: Mixed Job Treatments			
Trade Hurts Jobs	0.237***	0.047***	-0.249***
	[0.043]	[0.015]	[0.016]
Trade Helps Jobs	0.074*	0.030*	-0.022
	[0.045]	[0.016]	[0.015]
Trade Hurts Helps Jobs	0.177***	0.035**	-0.093***
·	[0.048]	[0.016]	[0.016]
Trade Helps Hurts Jobs	0.206***	0.043***	-0.208***
	[0.045]	[0.016]	[0.017]
Observations	8,561	8,561	8,561
(Pseudo) R-squared	0.158	0.0467	0.0584
Individual, county, week, rand. order controls?	Y	Y	Y

Additional results: Prices "Sans Cheaper" Deck



"Trade Helps Price Sans Cheaper" continues to generate a pro-protectionist effect

Trade Policy Questions:	(1)	(2)	(3)
	First principal	Did information	Impact of trade for
	component	affect views?	most Americans?
	OLS	Ordered logit	Ordered logit
Panel B: "Sans Cheaper" Price Treatment			
Trade Helps Prices	0.111*** [0.042]	0.025	-0.061*** [0.016]
Tariff Hurts Prices	0.103**	0.045***	-0.168***
	[0.042]	[0.016]	[0.016]
Trade Helps Prices sans Cheaper	0.167***	0.015	-0.059***
	[0.049]	[0.017]	[0.017]
Observations	7,147	7,147	7,147
(Pseudo) R-squared	0.151	0.0518	0.0533
Individual, county, week, rand. order controls?	Y	Y	Y

< < >> < <</>

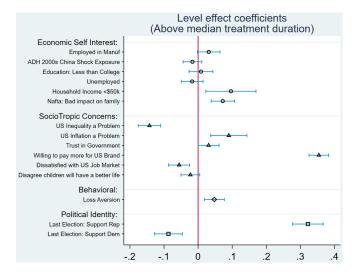
< E ▶ < E ▶ E = のQ (~

Additional results: Prices "Sans China" • Back

Nor does the effect go away when the "Trade Helps Prices" treatment is rendered "sans China"

Trade Policy Questions:	(1)	(2)	(3)
	First principal	Did information	Impact of trade for
	component	affect views?	most Americans?
	OLS	Ordered logit	Ordered logit
Panel C: "Sans China" Price Treatment			
Trade Helps Prices	0.115***	0.027*	-0.062***
	[0.042]	[0.015]	[0.016]
Tariff Hurts Prices	0.107**	0.046***	-0.171***
	[0.043]	[0.016]	[0.016]
Trade Helps Prices sans China	0.134***	0.004	-0.056***
	[0.049]	[0.017]	[0.017]
Observations	7,153	7,153	7,153
(Pseudo) R-squared	0.143	0.0492	0.0515
Individual, county, week, rand. order controls?	Y	Y	Y

Main Effects for Respondent Covariates Back



Alfaro, Chen, Chor

16/18

4日 * 4日 * 4日 * 4日 * 4日 * 4日 *

Additional results: "Sans China" • Back

"Sans China" treatments yield effects similar to the respective "with China" treatments.

Dependent variable:	(1) First principal component	(2) First principal component	(3) First principal component
Treaments in sample:	OLS Trade Hurts Jobs with/sans China	OLS Trade Helps Jobs with/sans China	OLS Trade Helps Prices with/sans China
Treatment with China	0.239*** [0.043]	0.069 [0.045]	0.118***
Treatment sans China	[0.043] 0.143** [0.071]	0.125 [0.077]	[0.043] 0.138*** [0.051]
Test for equality, p-value:	[0.236]	[0.534]	[0.669]
Individual, county, week, rand. order controls?	Y	Y	Y
Observations (Pseudo) R-squared	4,617 0.153	4,586 0.158	5,386 0.142

Word Occurrence Analysis: Regressions Back

- No significant difference in occurrence of "China" across recipients of "with China" vs "sans China" treatments
- No significant difference in occurrence of "Job" / "Worker" across recipients of "Jobs" vs "Prices" treatments

Dependent variable: Treatments in sample:	(1) Text response: Listed only China to limit imports from Logit Three pairs	(2) Text response: Listed only China to limit imports from Logit All available	(3) Text response: China appears in reasons for more limits on imports Logit Three pairs	(4) Text response: China appears in reasons for more limits on imports Logit All available	(5) Text response: Jobs appears in reasons for more limits on imports Logit Three pairs	(6) Text response: Jobs appears in reasons for more limits on imports Logit All available
Treatment with China	0.032	0.013	-0.005 [0.054]	-0.006 [0.024]		
Treatment sans China	0.074*	0.064** [0.033]	0.027	0.018		
Treatment with Jobs	[0.0.1]	[]	[0.0.0]	[]	0.036 [0.053]	0.037
Treatment with Prices					0.016 [0.059]	0.035] [0.035]
Test for equality, p-value:	[0.257]	[0.124]	[0.260]	[0.400]	[0.569]	[0.532]
Individual, county, round, rand. order controls?	Y	Y	Y	Y	Y	Y
Observations (Pseudo) R-squared	834 0.126	1,326 0.116	559 0.136	965 0.103	644 0.112	1,034 0.0874