Silent Protest on a Bench: The Impact of War on Ethnic Sentencing Disparities in Russian Courts*

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Roadmap

- 1. Motivation, contribution to literature, and brief overview
- 2. Background and data
- 3. Empirical strategy and threats to identification
- 4. Results and possible mechanisms
- 5. Conclusion and plans for future

- Political events may affect the emotions of people in positions of authority and lead to more subjective outcomes
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- 2022 Russia Ukraine war
 - Rise of propaganda and censorship (state media budget ↑ 200%)
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 - Emphasis on 'traditional Russian values' → distancing of ethnic minorities from ethnic Russians (EEAS Report; Holod.Media; Ideal.Realii)
- ightarrow This paper studies effects of the war announcement on ethnic bias of judges in Russian courts

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Results:

- Ethnic judges became more punitive to Russian defendants: 5.3pp more likely to sentence to detention for minor offense
 - ightarrow Effect can be caused by the backlash of minorities to propaganda as it increases in localities with higher predisposition to be affected by it
 - → Namely, with lower social trust, lower ethnic fractionalization, and less democratic

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 - → We study sentencing disparities in ethnic pairs of judges and defendants
- We aim to extend existing research on Russian judicial system, which is scarce and mainly focused on criminal cases

(Volkov, 2016; Zhuchkova and Kazun, 2023; Knorre et al., 2024)

Background

Judicial system:

- 2018 reform: courts should have switched to automatic allocation of cases by late 2019
- Overall, about 16,000 judges (around 70% are ethnic Russian) and 1,600 courts

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Ethnic minorities:

- Around 80% of Russian population are ethnic Russians, others belong to different ethnic groups: Ukranians, Tatars, Bashkirs, etc.
- Names are a good predictor (Azat Zainullin vs Pavel Ivanov)
- We divide population into Russian ethnic Russians, and ethnic minority – non-ethnic Russian (Brunarska and Soral, 2022)

Data

- All reported minor offense cases (Justice database) and court hearings data (to check allocation of cases)
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Data analysis:

- ML model to imply ethnicity based on personal names (Bessudnov et al., 2023)
- Regular expressions and NLP libraries to extract sentencing decisions from texts More details

Empirical Strategy: RD in Time

$$Y_i = \beta_0 + \beta_1 \mathbb{1}(m \geqslant \overline{c}) + \beta_2 f(m) + \beta_3 \mathbb{1}(m \geqslant \overline{c}) \times f(m) + \varepsilon_i$$

- ullet i is case, m is year-month of sentencing decision, $\overline{c}=$ February 2022
- focus on minor offenses (Article 21.1 Part 1 of Administrative Code)

 More details
- main outcome probability to receive **detention** as punishment instead of fine

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 - → 2018 reform introduced automated distribution system
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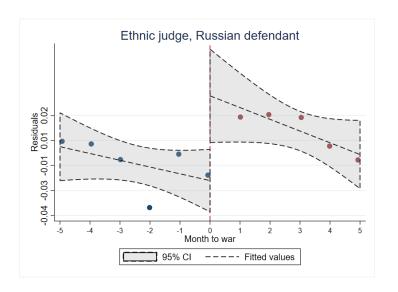
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- Changes in supply across different types of crime

Results: ethnic judges are more punitive to Russian defendants

β_1 (After war)	Ethnic defendant	Russian defendant
Ethnic judge	0.034	0.053***
•	(0.025)	(0.017)
	N = 4327	N = 8966
Russian judge	-0.005	-0.006
	(0.022)	(0.012)
	N = 5819	<i>N</i> = 17615

Outcome: 0/1 detention. Notes: Includes court FE, p(1), uniform kernel, data-driven bandwidth, robust standard errors in parentheses. * p<0.10, *** p<0.05, *** p<0.01

Results Plot Robustness Random Alloc. Ethnic Defendant



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 - → **Ethnic fractionalization:** probability that two randomly picked individuals in a city belong to the same ethnic group
 - → Democratic values: incidence of protests after 2011 rigged elections in the city

- Results are more pronounced in the localities with lower social trust, low ethnic diversity and less democratic regions
 - → Likely to be affected by propaganda to a greater effect (Adena et al., 2015)
 - → Minorities can feel more isolated or marginalized in these contexts

	Ethnic judge, Russian defendant				
	All	Low trust	Low ethnic diversity	No protest 2011	
β_1 (After war)	0.053***	0.071*	0.074***	0.066**	
	(0.017)	(0.037)	(0.026)	(0.033)	
N	8966	1732	4783	2671	

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 Results are not driven by specific ethnic group (more detailed analysis) or Moscow/Saint Petersburg

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- Results: ethnic judges become more punitive towards Russian defendants
 - → Effect is stronger in localities with lower ethnic diversity, lower social trust, and lower potential to protest
 - ightarrow Might be explained by the reaction to increased propaganda-induced hostility from the ethnic majority

Further Steps

- Extending dataset to other types of crimes
 - → Extracting characteristics of the case and defendant (expand on Zhuchkova and Kazun, 2023)
 - → Sentiment analysis of the sentencing decisions (i.e. Choi et al., 2022; Gennaro and Ash, 2022)

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 - ightarrow Sentiment analysis of the sentencing decisions (i.e. Choi et al., 2022; Gennaro and Ash, 2022)
- Look deeper at the underlying mechanisms
 - → Measure exposure to propaganda through VK and/or Telegram channels activity in localities
 - ightarrow Information about killed-in-action soldiers from the localities prior to the sentencing decisions

Appendix

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Data Analysis Back to Data

Extraction of data from text

Regular expressions: used to extract most names, articles of law, and sentencing decisions

Natasha NLP library: used to extract names of defendants from court hearings data and cross-check regular expressions More details

Identification of ethnicity

Ethnicity is identified based on first name and surname of a person, using a predictive model by Bessudnov et al. (2023) More details

Ethnic Model

- We use Bessudnov et al. (2023) machine learning classifier to predict e based on personal names
- It is based on tokenization (division of words into part of different size), accuracy – 0.85
- Training set: data from popular social media website VK (www.vk.com), including names, gender, location, and languages a person speak
- Testing set: historical dataset with the names and ethnicity of the victims of political repressions from the Memorial society: https://lists.memo.ru/

Back to data analysis

Natasha Library

- Natasha is an open-source python library for Russian natural language processing. It combines several packages, including Named-Entity Recognition models (Slovnet) and rule-based facts extractor (Yargy)
- To identify names, Natasha uses rule-based approach and accuracy is 0.95 when it is used on Russian names, and 0.89 on all names (including non-Russian names written in Russian)
- It used large corpus of Russian news (more than 700,000) from Lenta.ru agency to create rules and dictionaries
- More information is available on Github







Ethnic judge, Russian defendant				
Whole sample Randomized judges only				
β_1 (After war)	war) 0.053*** 0.054***			
	(0.018)	(0.018)		
N	8966	8561		
Judges	322	308		

Outcome: 0/1 detention. Notes: Includes court FE, p(1), uniform kernel, data-driven bandwidth, robust standard errors in parentheses. * p < 0.10, ** p < 0.05, *** p < 0.01

Ethnic Judge, All Cases (Back to results)

	(1)	(2)	
β_1 (After war)	0.033**	0.046***	
	(0.014)	(0.015)	
β_1 x Ethnic defenda	int	-0.035**	
		(0.014)	
Ethnic defendant		0.022**	
		(0.009)	
N	14974	14974	

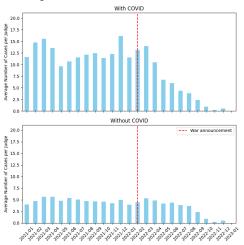
Outcome: 0/1 detention. Notes: Includes court FE, p(1), uniform kernel, data-driven bandwidth, robust standard errors in parentheses. * p < 0.10, ** p < 0.05, *** p < 0.01

Balance table (minor offense) Back to concerns

	(1)	(2)	(3)
Variable	Before war	After war	Difference
Ethnic judge	0.379	0.373	-0.004
	(0.485)	(0.484)	[0.004]
Ethnic defendant	0.316	0.321	-0.015
	(0.469)	(0.465)	[0.010]
Text length	8,269.188	8,574.368	98.262***
	(3,007.621)	(3,061.639)	[44.212]
Text length: ethnic defendant	2,734.281	2,730.283	13.990
	(4,286.916)	(4,372.853)	[38.378]
Text length: Russian defendant	5,579.169	5,749.955	52.136
	(4,602.214)	(4,653.245)	[40.671]
Text length: ethnic judges	3,194.249	3,177.256	-38.242
	(4,537.438)	(4,517.316)	[37.768]
Text length: Russian judges	5,6578.456	5,789.206	-85.073
	(4,600.405)	(4,761.128)	[95.102]
Text length: ethnic judge, Russian defendant	2,612.071	2,785.620	183.296**
	(3,916.479)	(3,882.002)	[90.956]
N	4,196	4,708	8,904

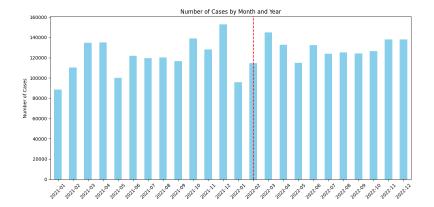
Distribution of all administrative cases (Back to concerns

In general, there are fewer administrative cases after war: This may be explained by alleviating COVID-related restrictions



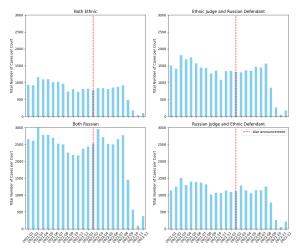
Criminal cases are in line with seasonal trends



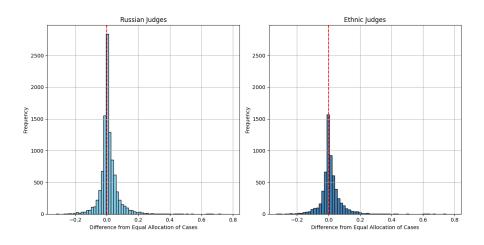


Distribution of minor offense cases (Back to concerns)

Distribution of the cases among ethnic pairs for a specific article hasn't changed much before and after war



Caseload of judged is similar in both ethnic groups



Pre-war differences (Back to concerns)

	(1)	(2)	(3)
Variable	Russian Judge	Ethnic Judge	Difference
Share of ethnic def.	0.324	0.386	0.001
	(0.468)	(0.487)	(0.004)
Prob. of detention	0.546	0.543	-0.006*
	(0.498)	(0.498)	(0.004)
Amount of fine	685.755	702.478	9.141***
	(225.244)	(235.211)	(2.654)
Length of arrest	3.680	3.641	0.048
	(3.088)	(3.171)	(0.035)
Prob. to issue high fine	0.463	0.467	0.003
	(0.499)	(0.499)	(0.006)
N	44,575	28,678	73,253

Allocation of cases I

- Allocation of cases should be random and based on the automatization procedure
- We use Cramér's V to measure how strongly ethnicity of judge is associated with the ethnicity of defendant on the level of the court; and how different the judge is from other judges in the same court
 - → Based on Pearson's chi-squared statistic
 - → Varies from 0 (no association) to 1 (strong association)

Back to concerns

Allocation of cases II

	Ethnic Defendant	Russian Defendant	Undefined
Ethnic Judge	15	20	5
Russian Judge	10	25	3

Table 1: Level of court, 1 table per court

Allocation of cases II

	Ethnic Defendant	Russian Defendant	Undefined
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Table 1: Level of court, 1 table per court

	Ethnic Defendant	Russian Defendant	Undefined
This judge	15	20	5
All other judges	10	25	3

Table 2: Level of judge, 1 table per court

Allocation of cases III O

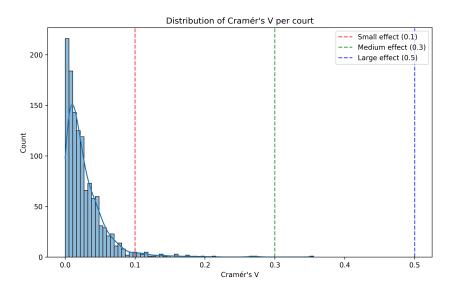


Figure 1: Distribution of Cramér's V across courts

Allocation of cases IV O



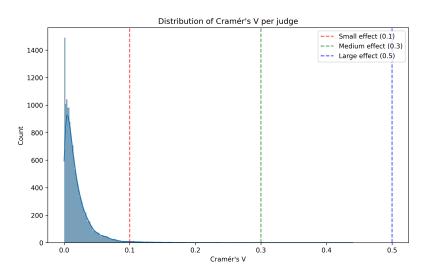


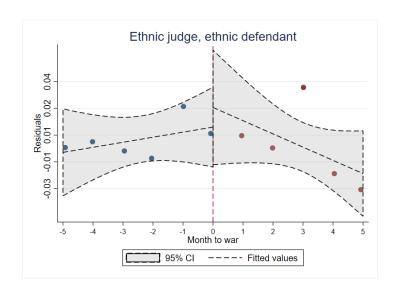
Figure 2: Distribution of Cramér's V across judges

Robustness checks (Back to results)

	(1)	(2)	(3)	(4)
	Quadratic	Quadratic	Triangular	Pseudo cutoff
	polynomial	polynomial	kernel	(6-months prior)
β_1 (After war)	0.048*	0.053**	0.041**	0.010
	(0.027)	(0.026)	(0.016)	(0.020)
N	8309	10541	7539	8568
Bandwidth (h, months)	[-3,6]	6	[-3,5]	4
Court FE	yes	yes	yes	yes
Polynomial order (p)	2	2	1	1
Kernel	uniform	uniform	triangular	uniform

Notes: Robust standard errors in parentheses. * p<0.10, ** p<0.05, *** p<0.01.

Results Plot II Back to Results



Minor offenses: Article 21.1 Part 1 Back to Strategy

Minor offense, that is, a violation of public order expressing clear disrespect to society, accompanied by obscene language in public places, offensive harassment of citizens, as well as destruction or damage to others' property

- Administrative fine from 500 to 1,000 RUB (5-10 USD)
- Administrative arrest (detention) from 1 to 15 days
- Examples: use of obscene language in public places, minor destruction or damage to others' property