The Medieval Origins Of Anti-Semitic Violence In Nazi Germany

by Voigtländer and Voth (2012)

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Roadmap

- Voigtländer and Voth (2012): "The Medieval Origins Of Anti-Semitic Violence In Nazi Germany"
 - Puzzle
 - Literature
 - Theory and Hypotheses
 - Data
 - The Model and the Empirical Findings
 - Further Theoretical Implications

Puzzle: Cultural Norms and Violent Behaviors

- Puzzle:
 - When do cultural norms and beliefs persist? When are they malleable?
 - Through what mechanisms can norms affect individual behavior and persist over long periods?

Literature:

- Cultural norms: Continuities
 - Cultural norms are powerful determinants of individual behavior and that they can persist over long periods (Tabellini 2008; Bisin and Verdier 2001; Acemoglu, Jackson, et al. 2011)
 - Cultural and religious fragmentation with civil war, corruption, public goods (Alesina and La Ferrara 2005)
 - Fertility of immigrants' children is influenced by fertility rates in their parents' country of origin (Fernández and Fogli 2009)
 - Inherited trust and economic performance (Algan and Cahuc 2010)

Literature:

- Institutions:
 - Institutional arrangements in the distant past influence norms and preferences today
 - Slave trade in Africa leading to permanently lower levels of trust (Nunn and Wantchekon 2011)
 - Free cities and more trust (Guiso, Sapienza, and Zingales 2008)

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Discontinuites:

 Culture also change quickly (attitudes toward homosexuals, working women, and premarital sex) (Fernández-Villaverde, Greenwood, and Guner 2014)

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- Inter-group interaction:
 - Expectation: Through regular inter-group interactions, cultural norms and intergroup hatred persist
- Adoption of norms through socialization:
 - Expectation: Regardless of economic incentives, adoption of cultural norms through family/society socialization persists

Data:

- Data on anti-Semitism during two eras:
 - the Medieval Period (1348-50) and
 - the Interwar Period (1920–45)

Data: Medieval period (1348-50)

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 - The first recorded settlement (1000)
 - Widespread murders and pogroms during crusades
 - Jewish people were blamed for well poisoning during the Black Death
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- The first recorded settlement (1000)
- Widespread murders and pogroms during crusades
- Jewish people were blamed for well poisoning during the Black Death
 - Many pogroms against Jewish population and mass expulsions
- Based on 'Germania Judaica,' 325 towns with a confirmed Jewish settlement and unambiguous information on pogroms
 - Of 325 observations, 235 (72%) recorded attacks.
 - Variation in pogroms across towns
 - Geographic heterogeneity in attacks (Reutlingen vs. Tubingen, Rottenburg vs. Horb)

Data: Interwar Period (1920-45)

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- Based on 1925 census, there were more than 560,000 Jews living in Germany
 - 2/3 of population living in six largest cities
 - ullet Data on 325 cities mentioned above + an extended data with 1428 cities
- After the Great War, Jews were portrayed as scapegoats, the rise myth
 of "stabbed in the back"

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 of "stabbed in the back"
- Outcome Variables
 - Nazi Party vote share until 1928 (before moderation)
 - Widespread attacks on cemeteries and synagogues during the "Night of Broken Glass" in 1938
 - Readers' letters to the anti-Semitic Nazi newspaper 'Der Stürmer's editors
 - Deportation of Jews

Assumption - 1

 There is some significant correlation between medieval and interwar variables:

Correlations among Main Variables for Main Sample									
	(1)	(2)	(3)	(4)	(5)	(6)	(7		
(1) POG ¹³⁴⁹	1								
(2) POG ^{1920s}	0.170***	1							
(3) DVFP ¹⁹²⁴	0.105*	0.539***	1						
(4) NSDAP ¹⁹²⁸	0.128**	0.444***	0.831***	1					
(5) %DEPORT	0.230***	0.056	-0.065	-0.010	1				
(6) STÜRMER/pop	0.109**	0.0266	0.158***	0.225***	0.014	1			
(7) SYNATTACK	0.127**	0.001	-0.020	-0.020	-0.066	-0.039	1		

Notes: Table is based on our main sample (including only cities with medieval Jewish communities and Jewish population in 1920-30 Appendix Table A.2 shows the equivalent statistics for the extended sample. POG^{1369} takes the value 1 if a pogrom occurred in the years 1348-50, and 0 otherwise. POG^{1369} takes the value 1 if a pogrom occurred in the years 1348-50, and 0 otherwise. Preliabitsparted in the May 1928 election and $DVEP^{13261}$ is the vote share for the Deutsch-Völkische Preliabitsparted in the May 1924 election; 9.DEPOMT is the percentage of deportees from each locality (relative to Jewish population in 1933; STCRMER/pop is the number of anti-Semitic letters to Der Stürmer per 1000 inhabitants; SSVANTACE kiess the value 1 if a synagogue was destroyed or damaged in the 1938 Reichskristallinacht, and 0 otherwise. * p < .10, ** p < .05, *** p < .01 (p-values for pairwise correlations, weighted by eity population in 1933).

Figure 1: Correlated Anti-Semitism Outcomes

Assumption - 2

 Interwar settlements are not associated with whether they had pogroms before or not

	TABLE III CITY-LEVEL CONTROLS AND MEDIEVAL POGROMS									
	(1) City pop gr	(2) owth	(3)	(4)	(5)	(6)	(7)	(8)		
	1300-1933	1750-1933	%Protestant 1925	%Jewish 1933	%Blue collar 1933	%Unemployed 1933	%Manufacturing 1933	%Retail & trade 1933		
Panel A: Mear	as by Pogrom	in 1349								
$POG^{1349} = 1$	2.38	2.06	46.8	1.44	41.1	17.0	35.2	22.0		
	(1.20)	(0.97)	(33.3)	(1.48)	(10.8)	(7.8)	(12.6)	(10.3)		
$POG^{1349} = 0$	2.28	1.92	52.6	1.44	40.0	15.0	31.8	19.0		
	(1.63)	(0.96)	(35.8)	(1.38)	(11.8)	(8.2)	(13.9)	(11.2)		
Panel B: Regre	essions on Po	G^{1349}								
POG^{1349}	0.120	0.234	-6.887	0.169	-0.953	0.0443	1.000	0.123		
	(0.534)	(0.251)	(4.520)	(0.165)	(1.131)	(0.758)	(1.367)	(0.958)		
Observations	46	112	325	325	325	325	325	325		
Adjusted R ²	0.075	-0.004	0.036	0.094	0.401	0.469	0.369	0.554		

Notes: All regressions run by OLS for the main sample, including only towns with documented medieval Jewish settlement. In Panel A, standard deviation in parentheses; in Panel B, standard errors in parentheses (clustered at the county level). POG¹⁵⁴⁹ takes the value 1 if a pogrom occurred in the years 1348–50, and 0 otherwise. All regressions include our standard set of control variables: In(city population), %Protestants, and %Jewish (except for columns (3) and (4), which exclude %Protestant and %Jewish, respectively). City population corresponds to the year of the dependent variable: In(city population) in 1300 in column (1), In(City population) in 1750 in column (2), In(City population) in 1925 in column (3), and ln(City population) in 1933 in columns (4)-(8). City population data for 1300 and 1750 are from Bairoch, Batou, and Chèvre (1988).

Figure 2: No Endogeneous Settlement Pattern

Assumption - 3

 Cities with mediavel pogroms have higher average interwar anti-Semitism outcomes

TABLE IV
CONDITIONAL AVERAGE OF TWENTIETH-CENTURY OUTCOME VARIABLES

	Pogrom in 1349		-	
	No	Yes	All towns	Obs.
Pogrom in 1920s (% of towns)	1.1	8.2	6.3	320
NSDAP May 1928 (% of valid votes)	2.7	4.0	3.6	325
DVFP May 1924 (% of valid votes)	7.2	8.4	8.0	325
Deportations (per 100 Jews in 1933)	24.2	35.6	34.0	278
Stürmer letters (per 10,000 inhabitants)	0.59	0.86	0.82	325
Synagogue attack (% of towns)	79.1	93.8	90.3	278

Notes: All statistics based on the main sample, including only towns with documented medieval Jewish settlement. Of the 325 towns and cities, 235 (729) had pogroms in 1348-50. The mean of deportations per 100 Jews and Stürmer letters is weighted by city population in 1933. The mean of synagogue attacks is calculated only for towns with synagogues or praver rooms in 1933.

Figure 3: Monotonocity in the Expected Direction

Model Specification:

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 - The main model with standard regression techniques and further analysis with propensity score matching, and matching by geographical location:

$$AS_i = \alpha + \beta \cdot POG_i^{1349} + \gamma \cdot X_i + \epsilon_i$$

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- Control matrix X includes city population, the percentage of the population that is Jewish, and the percentage that is Protestant.
 - OLS and Poisson MLE.
 - Propensity Score Matching
 - with the Control Covariates and
 - geographical proximity

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 - Outcome 5) Attacks on synagogues during the "Night of Broken Glass" in 1938 were more common, and

TABLE VI Main Results

	(1)	(2)	(3)	(4)	(5)	(6)
Dep. variable:	1920s pogroms	NSDAP 1928	DVFP 1924	Deportations	Stürmer letters	Synagogue attack
	OLS	OLS	OLS	ML	ML	OLS
Panel A: Baseline re	gressions					
POG^{1349}	0.0607***	0.0142**	0.0147	0.142**	0.369**	0.124**
	(0.0226)	(0.00567)	(0.0110)	(0.0706)	(0.144)	(0.0522)
ln(Pop)	0.0390**	-0.00254	-0.00123	0.241***	0.848***	0.0498***
	(0.0152)	(0.00219)	(0.00418)	(0.0841)	(0.0419)	(0.0117)
%Jewish	0.0135	0.00174	0.00701	0.0743**	0.218***	0.0262**
	(0.0114)	(0.00190)	(0.00442)	(0.0348)	(0.0383)	(0.0132)
%Protestant	0.00034	0.00029***	0.00083***	-0.0039***	-0.0053**	0.00036
	(0.00042)	(0.000088)	(.00018)	(0.0012)	(0.0023)	(0.00060)
ln(# Jews 1933)				0.815***		
				(0.0822)		
Observations	320	325	325	278	325	278
Adjusted R ²	0.054	0.043	0.080			0.098
Panel B: Matching es	stimation ^a					
POG^{1349}	0.0744***	0.0133***	0.0203**	161.7***	2.386***	0.103*
	(0.0182)	(0.00486)	(0.0102)	(41.33)	(0.570)	(0.0553)
Observations	320	325	325	278	325	278
Panel C: Geographic	matching ^b					
POG^{1349}	0.0819***	0.0116**	0.0238***	195.8***	2.864***	0.152**
	(0.0162)	(0.00456)	(0.00746)	(33.55)	(0.579)	(0.0677)
Median distance	20.4	20.0	20.0	21.9	22.2	23.7
Mean distance	23.4	23.1	23.1	28.3	32.6	27.6
Observations	320	325	325	278	325	278

Notes: All regressions run at the city level. Standard errors in parenthouse, clustered at the county (Kreis) level, POG²⁸⁸⁸ takes the value 1 if a poprum occurred in the years 1348-50, and of otherwise. City population is taken from the 1955 census in column column cl and city, in columns (1)-60, icity population is from the 1935 census. Seleves is from the 1935 census for columns (1)-63, and from 1933 census in columns (1)-64.0 SeProtestants is from the 1935 census. Seleves is from the 1935 census for columns (1)-63, and from 1933 census in columns (1)-64.0 SeProtestants in from the 1935 census in columns (1)-64.0 SeProtestants in from the 1935 census in columns (1)-64.0 SeProtestants in from the 1935 census in columns (1)-64.0 SeProtestants in from the 1935 census in columns (1)-64.0 SeProtestants in from the 1935 census in columns (1)-64.0 SeProtestants in from the 1935 census in columns (1)-64.0 SeProtestants in from the 1935 census in column

Figure 4: Main Results

- Furthermore, a principal component analysis based on the six twentieth-century outcome variables.
 - All variables have positive factor loadings,
 - The first principal component explains 27% of the sample variance.
 - Medieval pogroms are found to have a strong and significant effect on anti-Semitism, with Black Death pogroms increasing the dependent variable by 0.25-0.32 standard deviations.
 - The results are similar
 - for both cities with confirmed Jewish settlements in the fourteenth century and
 - for all cities and towns for which information on twentieth-century outcome variables is available.

Dependent Variable: First Principal Component of Six Outcome Variables

	OLS	OLS	(3) ME ^a	(4) GeoMatch ^b	(5) OLS	(6) OLS	(7) ME ^a	(8) GeoMatch	
	Main Sample				Extended Sample				
POG ¹³⁴⁹	0.290**	0.254*	0.264**	0.318***	0.333***	0.303**	0.274**	0.315***	
	(0.132)	(0.135)	(0.127)	(0.0819)	(0.127)	(0.130)	(0.126)	(0.0808)	
JewCom ¹³⁴⁹					0.0158	-0.0378	mv	mv	
					(0.105)	(0.109)			
ln(Pop 1933)	-0.0875	0.0532	mv		-0.191***	-0.0339	mv		
	(0.0646)	(0.0644)			(0.0421)	(0.0345)			
%Jewish 1933	0.0215	-0.200*	mv		0.154***	0.112***	mv		
	(0.0971)	(0.105)			(0.0439)	(0.0374)			
%Protestant 1925	0.284***	0.297***	mv		0.287***	0.282***	mv		
	(0.0757)	(0.0755)			(0.0411)	(0.0396)			
%Blue collar 1933		-0.367**				-0.109			
		(0.149)				(0.0874)			
%Industry employ.		0.0832				-0.0622			
		(0.156)				(0.0853)			
%Self-employed in retail & trade		0.169**				0.248***			
		(0.0725)				(0.0613)			
Observations	311	311	311	311	1035	1035	1035	1184	
Adjusted R ²	0.052	0.099			0.124	0.206			

Figure 5: Main Results with Principal Component Analyses

• Investigation of the conditions under which anti-Semitism persisted.

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- For certain conditioning variables, the long-term transmission of hatred weakens,
 - cities with a strong tradition of long-distance trade (Hanseatic League),
 - southern German cities that were more open to trade,
 - urban centers that grew rapidly after 1750 exhibit a weaker connection between medieval and modern-day anti-Semitism.

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 - urban centers that grew rapidly after 1750 exhibit a weaker connection between medieval and modern-day anti-Semitism.
- Moreover, the following factors do not have an effect on the persistence of anti-Semitism:
 - tradition of being governed by a bishop and
 - relative geographical isolation.

TABLE X
DIFFERENCES IN PERSISTENCE

	(1) Hanseatic	(2) Open city	(3) City growth	(4) Industrial	(5) Bishop	(6) Geographic is	(7) elation
POG ¹³⁴⁹	0.311** (0.141)	0.375*	0.257 (0.225)	0.777** (0.312)	0.293** (0.134)	0.384** (0.165)	0.309*
Hanseatic	-0.133 (0.175)						
Hanseatic $\times POG^{1349}$	-0.444** (0.208)						
Open		0.158					
Open × POG^{1349}		-0.298** (0.148)					
PopGrowth			-0.131 (0.166)				
PopGrowth $\times POG^{1349}$			-0.432** (0.168)				
%Industrial			(-12-0)	-0.00351 (0.00730)			
$%Industrial \times POG^{1349}$				-0.0143* (0.00859)			
Bishop				(0.00000)	0.292		
Bishop $\times POG^{I349}$					-0.185 (0.451)		
Isolated _{1, 2}						0.176 (0.228)	-0.003 (0.190)
Isolated _{1, 2} × POG^{1349}						-0.268 (0.260)	(0.190) -0.043 (0.237)
Observations Adjusted R ²	311 0.060	214 0.063	110 0.081	311 0.068	311 0.047	311 0.048	311 0.046

Notes: Dependent variable is the first principal component (standardized) obtained from six proxies for twentieth-century anti-Sensitism as observibed in the notes to Table VIII. all regressions run by O.S.; including the centrols: Incitedy population 1930, "gloridam-in 1930 all standardized). Standard errors parentheses (clustered at the county level): POG¹⁰⁰ takes the value 1 if a popron occurred in the years 1348-50, and 0 otherwise. "Open" is an index, calculated as the sum of the following indicater variables: Pere Imprinci city, vii (renorporation II and 1349, annotate rights in 1349, and located at a navigable river. The index is then standardized to obtain redifficient. The regressions column 12) includes only cities to the south of Cologos (the southern-most member of the Hansattet Laugue). "PogGrowth" is the (standardized toy) population growth between 1700 and 1303s, population in 1703 is from Bairsch, Batona, and Chever 11808. "Significantial" is the preventage of employment in industry and mundrizing in 1303. "Biolog" is a primatery for cities located on a navigable river, this dummy is set to 0. "Isolatedy" is a dummy set equal to 1 if the nearest city with at least 10,000 inhabitants in 1750 is more than 31 miles (500 and 1638s, population 1750 is from 1978 per population 1750 is more than 31 miles (500 and 1638s, population 1750 is more than 31 miles (500 and 1638s, population 1750 is more than 31 miles (500 and 1638s, population 1750 is more than 31 miles (500 and 1638s).

Figure 6: Mechanisms with Interaction Variables

- Local persistence of anti-Semitism partly reflects a lack of mobility among the population in small towns
 - Most towns in the study had a median population of no more than 9,000 inhabitants in 1933, and at most a few thousand in the Middle Ages

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 - Immigration and marriages across these towns were relatively rare, which facilitated the persistence of beliefs at the local level
 - With industrialization after 1820 came migration, and where immigration was massive the extent of persistence declined
 - Symbolic practices and festivals such as Passion plays and anti-Semitic sculptures and book printing may have helped perpetuate hostile beliefs

	(1)	(2)	(3)
	$\#POG^{pre-1347}$	Judensau	Нер-Нер
$POG^{1349} = 1$	0.481	0.055	0.060
$POG^{1349} = 0$	0.322	0	0.011
Difference	0.159*	0.055**	0.048*
p-value	0.09	0.02	0.06
Observations	325	325	325

Notes: Conditional means are reported for cities with and without Black Death pogroms (indicated by POG^{I349}) for our main sample. $\#POG^{PPe-I347}$ is the number of attacks on Jewish communities in a city before 1347. All columns include cities with documented Jewish settlement prior to 1349. Judensau is a dummy set equal to 1 only for cities with such an adornment. Hep-Hep is a dummy for cities that recorded attacks on Jews during the riots in 1819. See Online Appendix III for more detail. *P < 10. *P < 0.

Figure 7: Other Forms of Violence

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	NSDAP	NSDAP	DNVP	KPD	KPD	Principal	componenta	
Dep. variable	1930	1933	1924	1924	1928	(county-le	vel regression	ons)
POG ¹³⁴⁹	0.0137	-0.0113	-0.0267**	0.00915	0.0101	0.263**	0.252***	0.252***
	(0.0101)	(0.0125)	(0.0131)	(0.00873)	(0.00724)	(0.126)	(0.110)	(0.110)
ln(Pop)	-0.00816**	-0.0111***	-0.00505	0.0138***	0.0125***	-0.131	0.00111	-0.00260
**	(0.00320)	(0.00359)	(0.00419)	(0.00305)	(0.00249)	(0.0702)	(0.0699)	(0.0701)
%Jewish	0.00240	0.0100***	-0.00337	-0.0077***	-0.00335	0.0118	0.0277	0.0315
	(0.00320)	(0.0038)	(0.00403)	(0.0023)	(0.00204)	(0.0794)	(0.0719)	(0.0721)
%Protestant	0.00128***	0.0023***	0.0020***	0.000035	0.00017*	0.209***	0.305***	0.304***
	(0.00015)	(0.0002)	(0.0002)	(0.00012)	(0.0001)	(0.0715)	(0.0662)	(0.0675)
Violent crime p.c. 1908–12							0.448***	0.431***
							(0.0961)	(0.109)
Simple theft p.c. 1908–12								0.0187
								(0.0657)
Observations	325	325	325	325	325	263	263	263
Adjusted R ²	0.219	0.426	0.372	0.102	0.103	0.041	0.215	0.212

Notes: All regressions run by OLS. Standard errors in parentheses (clustered at the county level in columns (1)-(5)). POG¹³⁶ takes the value 1 if a pogrom occurred in the years 1348-50, and 0 otherwise. The remaining dependent variables are explained in the text. *First principal component (standardized) as described in the notes to Table VII. *p < .10. **
*p < .05. **p < .01. **
*p < .01. **
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Figure 8: Other Vote Share Variables

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- Variation in persistence is correlated with the variation in open-port cities.

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