## A Online Appendix

## A.1 Tables

Dependent Variable: Refugees per 100,000 Residents	(1)	(2)	(3)	(4)
Extreme-Right Vote Share <sub>2013</sub> (%)	-105.959*		-68.765	-69.044
	(58.607)		(58.371)	(56.478)
Hate Crimes per 100,000 Residents <sub>2013</sub>		-68.940	-9.013	-9.127
<b>-</b>		(117.290)	(106.084)	(104.955)
Unemployment per 1,000 Residents <sub>2015</sub>			6.547**	6.528**
			(3.257)	(3.042)
Mean Income per Capita <sub>2015</sub> in 1,000 EUR			-17.413	-17.375
			(15.539)	(14.484)
GDP per Capita <sub>2015</sub> in 1,000 EUR			10.737	10.742
			(8.247)	(8.458)
City over 100,000 Residents			285.024**	285.729**
			(125.634)	(113.009)
Vacant Housing <sub>2015</sub> (%)				0.305
				(17.565)
Constant	1520.977***	1443.376***	1211.471***	1210.129***
	(164.404)	(163.350)	(281.774)	(300.751)
State Fixed Effects	Yes	Yes	Yes	Yes
Adj. $R^2$	0.09	0.08	0.27	0.27
N	390	390	390	390

Table A1: Determinants of Actual Refugee Allocation

Note: Columns one to three show the OLS estimates of the determinants of the actual refugee allocation to districts in 2015. Regional variables are based in 2013 or 2015 and explained in detail in Section 3. Standard errors are clustered at the district level and displayed in parentheses. Statistical significance is indicated by asterisks according to: \* p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01.

Dependent Variable: Assigned Refugees per 100,000 Residents	(1)	(2)
Share of Natives in 2013	13.036	3.521
	(8.172)	(12.373)
Hate Crime occurred in the 90s	-89.430	-86.647
	(58.200)	(56.947)
Mean NSDAP Vote Share	2.063	1.378
	(2.032)	(2.169)
Vacant Housing in 2015 (%)		26.790*
		(14.424)
Constant	-11.901	828.459
	(837.402)	(1212.426)
State Fixed Effects	Yes	Yes
Adj. $R^2$	0.10	0.11
N	394	394

	Table A	A2: 1	District	Charact	eristics	and	Refugee	Assignm	ent
--	---------	-------	----------	---------	----------	-----	---------	---------	-----

Note: Columns one to three show the OLS estimates of refugee assignments to districts in 2014 and 2015 on district characteristics in 2013. Regional variables are explained in detail in Section 3. Standard errors are clustered at the district level and displayed in parentheses. Statistical significance is indicated by asterisks according to: p < 0.10, p < 0.05, p < 0.01.

	No Interaction	Interaction Median Split		4 <sup>th</sup> Quartile Split		East Germany	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Assigned Refugees	0.77985*** (0.22220)	0.95967*** (0.29126)	0.34733 (0.21256)	0.89222*** (0.25759)	0.35898* (0.18549)	0.79178*** (0.22287)	-0.01561 (0.01096)
Assigned Refugees							
$\times$ D[Inflow > 50 <sup>th</sup> percentile]		-0.14978*	0.57263***				
		(0.07898)	(0.04853)				
$\times$ D[Inflow > 75 <sup>th</sup> percentile]				-0.09981	0.55417***		
				(0.06581)	(0.03236)		
imes East						-0.14352	0.58171***
						(0.09323)	(0.04902)
2015 Year Dummy	Yes	Yes	Yes	Yes	Yes	Yes	Yes
State Fixed Effects	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Control Variables	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Partial $R^2$	0.49	0.50	0.82	0.50	0.85	0.50	0.38
N	780	780	780	780	780	780	780

Table A3: First-Stage Regression Results for Table 3

Note: The table shows the first-stage regression results of Table 3. Columns (1), (2) to (3), (4) to (5), and (6) to (7) refer to the models in column (1), (2), (3), and (4) of Table 3, respectively. Dependent variables in column (1), (2), (4), and (6) are the year-to-year change in refugee stocks per 100,000 residents, and in column (3), (5), and (7) the year-to-year change in refugee stocks per 100,000 residents interacted with either a dummy variable D, which either take on the value of 1 if the district is above the median or within the fourth quartile of refugee assignments and 0 otherwise, or with the dummy variable *East*, which takes the value of 1 if the district belongs to East Germany and 0 otherwise. Control variables are the same as in Table 3. Standard errors are clustered at the district level and displayed in parentheses. Statistical significance is indicated by asterisks according to: \*p < 0.10, \*\*p < 0.05, \*\*\*p < 0.01.

**=**:

	Share of Natives		Hate Cri	me 1990s	NSDAP Vote Share	
	(1)	(2)	(3)	(4)	(5)	(6)
Assigned Refugees	4.05402*** (1.17565)	3.05183*** (1.05005)	0.80993*** (0.21965)	-0.09667* (0.05848)	0.84844*** (0.27377)	0.03711 (0.05497)
Assigned Refugees						
$\times$ Share of Natives 2013	-3.59909***	-2.58428**				
	(1.12787)	(1.00875)				
$\times$ Hate Crime 90s			-0.12299	0.63641***		
			(0.07478)	(0.02996)		
imes Mean NSDAP Vote Share					-0.30590	0.57899***
					(0.31975)	(0.06792)
2015 Year Dummy	Yes	Yes	Yes	Yes	Yes	Yes
State Fixed Effects	Yes	Yes	Yes	Yes	Yes	Yes
Control Variables	Yes	Yes	Yes	Yes	Yes	Yes
Partial $R^2$	0.54	0.53	0.50	0.49	0.50	0.50
N	780	780	780	780	762	762

Table A4: First-Stage Regression Results for Table 4

Note: The table shows the first-stage regression results of Table 4. Columns (1) to (2), (3) to (4), and (5) to (6) refer to the model in column (1), (2), and (3) of Table 4, respectively. Dependent variable in odd columns is the year-to-year change in refugee stocks per 100,000 residents, and in even columns the year-to-year change in refugee stocks per 100,000 residents interacted with the respective measure of latent local anti-foreigner hostility, i.e. either the share of Germans living in the district in 2013, a dummy variable *Hate Crime 90s*, which takes on the value of 1 if hate crimes against foreigners occurred in the district between 1991 and 1993, and 0 otherwise, or the average share of votes cast for the NSDAP. Control variables are the same as in Table 3. Standard errors are clustered at the district level and displayed in parentheses. Statistical significance is indicated by asterisks according to: \* p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01.

$\Delta$ Hate Crimes per 100,00 Residents $O = O = O = O = O = O = O = O = O = O =$
Panel A: ITT       Assigned Refugees $-0.00357^{***}$ $0.00010$ $-0.0024$ $-0.0031^{***}$ Assigned Refugees       (0.00129)       (0.00012)       (0.00020)       (0.00124)         Assigned Refugees       (0.00163^{***}) $0.00177^{***}$ $0.00183^{***}$ $0.00154^{***}$ × East $0.00163^{***}$ $0.00177^{***}$ $0.00183^{***}$ $0.00133^{***}$ × Share of Natives 2013 $0.00410^{***}$ $0.00026^{**}$ $0.00028^{***}$ × Hate Crime 90s $0.00026^{**}$ $0.00028^{***}$ $0.00028^{***}$ × Mean NSDAP Vote Share $0.00055^{***}$ $0.00061^{***}$ $0.00057^{***}$ $(0.00013)$ $(0.00014)$ $(0.00014)$ $(0.00013)$ Year Dummy       Yes       Yes       Yes       Yes         State Fixed Effects       Yes       Yes       Yes       Yes         Yes       Yes       Yes       Yes       Yes       Yes
Panel A: ITT       Assigned Refugees $-0.00357^{***}$ $0.00010$ $-0.00324$ $-0.0031^{***}$ Assigned Refugees       (0.00129)       (0.00012)       (0.00020)       (0.00124)         Assigned Refugees $\times$ East $0.00163^{***}$ $0.00177^{***}$ $0.00183^{****}$ $0.00154^{***}$ $\times$ Share of Natives 2013 $0.00410^{***}$ $0.00038$ $(0.00038)$ $(0.00038)$ $\times$ Hate Crime 90s $0.00026^{**}$ $0.00026^{***}$ $0.00028^{***}$ $0.00028^{***}$ $\times$ Mean NSDAP Vote Share $0.00055^{***}$ $0.00061^{***}$ $0.00054^{***}$ $0.00051^{***}$ $AME$ [Refugees] $0.00055^{***}$ $0.00061^{***}$ $0.00054^{***}$ $0.00067^{***}$ $Year$ Dummy       Yes
Assigned Refugees $-0.00357^{***}$ $0.00010$ $-0.0024$ $-0.00331^{***}$ Assigned Refugees       (0.00129)       (0.00012)       (0.00020)       (0.00124)         × East $0.00163^{***}$ $0.00177^{***}$ $0.00183^{***}$ $0.00154^{***}$ × Share of Natives 2013 $0.00410^{***}$ $(0.00038)$ $(0.00038)$ $(0.00038)$ × Hate Crime 90s $0.00026^{**}$ $0.00026^{***}$ $0.00028^{***}$ $(0.00011)$ × Mean NSDAP Vote Share $0.00055^{***}$ $0.00051^{***}$ $0.00051^{***}$ $(0.00076)$ AME [Refugees] $0.00055^{***}$ $0.00061^{***}$ $0.00054^{***}$ $0.00067^{***}$ Year Dummy       Yes       Yes       Yes       Yes       Yes       Yes       Yes         Year Dummy       Yes
Assigned Refugees $(0.00129)$ $(0.00012)$ $(0.00020)$ $(0.00124)$ Assigned Refugees $\times$ East $0.00163^{***}$ $0.00177^{***}$ $0.00183^{***}$ $0.00154^{***}$ $\times$ Share of Natives 2013 $0.00410^{***}$ $(0.00038)$ $(0.00038)$ $(0.00038)$ $\times$ Hate Crime 90s $0.00143)$ $0.00026^{**}$ $0.00028^{***}$ $\times$ Mean NSDAP Vote Share $0.00055^{***}$ $0.00061^{***}$ $0.00051^{***}$ $AME$ [Refugees] $0.00055^{***}$ $0.00061^{***}$ $0.00054^{***}$ $0.00067^{***}$ $(0.0013)$ $(0.00014)$ $(0.00014)$ $(0.00013)$ Year DummyYesYesYesYesYesState Fixed EffectsYesYesYesYesYesControl VariablesNoNoNoNoNo
Assigned Refugees $\times$ East $0.00163^{***}$ $0.00177^{***}$ $0.00183^{***}$ $0.00154^{***}$ $\times$ Share of Natives 2013 $0.00410^{***}$ $(0.00038)$ $(0.00038)$ $(0.00038)$ $\times$ Hate Crime 90s $0.00143$ $(0.00141)$ $(0.0011)$ $\times$ Mean NSDAP Vote Share $0.0055^{***}$ $0.00056^{***}$ $0.00051^{***}$ $AME$ [Refugees] $0.00055^{***}$ $0.00051^{***}$ $0.00054^{***}$ $0.00067^{***}$ $AME$ [Refugees] $0.00055^{***}$ $0.00061^{***}$ $0.00067^{***}$ $0.00067^{***}$ $AME$ [Refugees] $0.00055^{***}$ $0.00061^{***}$ $0.00067^{***}$ $0.00067^{***}$ $AME$ [Refugees] $0.00055^{***}$ $0.00061^{***}$ $0.00067^{***}$ $0.00067^{***}$ $(0.00013)$ $(0.00014)$ $(0.00014)$ $(0.00013)$ $(0.00013)$ $(0.00014)$ $(0.00013)$ Year Dummy       Yes
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$\times$ Hate Crime 90s       (0.00143)       (0.00141) $\times$ Hate Crime 90s       0.00026**       (0.0011) $\times$ Mean NSDAP Vote Share       0.00183**       (0.0011) $\times$ Mean NSDAP Vote Share       0.00055***       (0.00061***       (0.00076)         AME [Refugees]       0.00055***       0.00061***       0.00054***       0.00067***         Year Dummy       Yes       Yes       Yes       Yes       Yes         State Fixed Effects       Yes       Yes       Yes       Yes       Yes         Control Variables       No       No       No       No       No
$ \begin{array}{cccccc} \times & \text{Hate Crime 90s} & 0.00026^{**} & 0.00028^{***} \\ \times & \text{Mean NSDAP Vote Share} & 0.00011 & (0.00011) \\ \times & \text{Mean NSDAP Vote Share} & 0.00055^{***} & 0.00061^{***} & 0.00051^{***} \\ & (0.00076) & (0.00076) \\ \end{array} $
x Mail Child State       (0.00011)       (0.00011)         x Mean NSDAP Vote Share       (0.00011)       (0.00011)         AME [Refugees]       0.00055***       (0.00061***       (0.00054***         AME [Refugees]       0.00055***       (0.00014)       (0.00014)         Year Dummy       Yes       Yes       Yes         State Fixed Effects       Yes       Yes       Yes         Control Variables       No       No       No
× Mean NSDAP Vote Share       0.00183**       0.00151**         AME [Refugees]       0.00055***       0.00061***       0.00054***       0.00067***         AME [Refugees]       0.00013)       (0.00014)       (0.00014)       (0.00013)         Year Dummy       Yes       Yes       Yes       Yes       Yes         State Fixed Effects       Yes       Yes       Yes       Yes       Yes         Control Variables       No       No       No       No       No
AME [Refugees]       0.00055***       0.00061***       0.00054***       0.00067***         AME [Refugees]       0.00055***       0.00061***       0.00054***       0.00067***         Year Dummy       Yes       Yes       Yes       Yes       Yes         State Fixed Effects       Yes       Yes       Yes       Yes         No       No       No       No       No
AME [Refugees]       0.00055***       0.00061***       0.00054***       0.00067***         Year Dummy       Yes       Yes       Yes       Yes       Yes       Yes         State Fixed Effects       Yes       Yes       Yes       Yes       Yes       Yes         Control Variables       No       No       No       No       No       No
AME [Refugees]       0.00055***       0.00061***       0.00054***       0.00067***         Year Dummy       Yes       Yes       Yes       Yes       Yes         State Fixed Effects       Yes       Yes       Yes       Yes       Yes         Year Dummy       Yes       Yes       Yes       Yes       Yes
Nump[refugees]0.000030.000010.000040.00007(0.00013)(0.00013)(0.00014)(0.00013)Year DummyYesYesYesYesState Fixed EffectsYesYesYesYesControl VariablesNoNoNoNo
Year DummyYesYesYesYesState Fixed EffectsYesYesYesYesControl VariablesNoNoNoNo
State Fixed Effects     Yes     Yes     Yes     Yes       Control Variables     No     No     No     No
Control Variables No. No. No. No.
$A_{12}^{(1)}$ $D_{2}^{(2)}$ $O_{12}^{(2)}$ $O_{12$
Adj. R 0.42 0.42 0.41 0.42
N 804 804 /88 /88
Panel B: IV
$\Delta$ Refugees -0.00835*** 0.00029 -0.00046 -0.00830***
$(0.00245) \qquad (0.00029) \qquad (0.00038) \qquad (0.00247)$
$\Delta$ Refugees
× East 0.00254*** 0.00299*** 0.00305*** 0.00236***
(0.00071) (0.00074) (0.00073) (0.00071)
× Share of Natives 2013 0.00961*** 0.00895***
(0.00280) (0.00286)
× Hate Crime 90s 0.00035* 0.00035*
(0.00019) (0.00019)
$\times$ Mean NSDAP Vote Share $0.00370^{***}$ $0.00259^{**}$
(0.00126) $(0.00124)$
AME [Refugees] 0.00107*** 0.00108*** 0.00099*** 0.00129***
(0.00029) (0.00034) (0.00033) (0.00030)
Year Dummy Yes Yes Yes Yes
State Fixed Effects Yes Yes Yes Yes
Control Variables No No No No
Sanderson–Windmeijer <i>F-stats</i> 815.56 29.85 576.46 618.94
246.08 229.95 135.05 337.74
696.59 508.95
363.87 451.13
774.28 714.60
Adi $B^2$ 0.27 0.25 0.26 0.25
N 780 780 762 762

Table A5: Measures of Regional Xenophobia on Hate Crime without Control Variables

Note: The table shows the first-difference regression results of hate crime against refugees per 100,000 residents on either the assigned number of refugees per 100,000 residents (Panel A) or the first-difference of refugees per 100,000 residents (Panel B). Refugee measures are interacted with the dummy variable *East*, which takes the value of 1 if the district belongs to East Germany and 0 otherwise with either the share of Germans living in the district in 2013, a dummy variable *Hate Crime 90s*, which takes on the value of 1 if hate crimes against foreigners occurred in the district between 1991 and 1993, and 0 otherwise, or the average share of votes cast for the NSDAP between 1928 and 1933. Column (4) presents the results of a model that includes all interaction. Panel A refers to the ITT, while Panel B estimates the IV approach. Standard errors are clustered at the district level and displayed in parentheses. Statistical significance is indicated by asterisks according to: \* p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01.

$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Dependent Variable:	(1)	(2)	(2)	(4)
Panel A: ITT Assigned Refugees $-0.00470^{**}$ $0.00018$ $-0.0007$ $-0.00434^{**}$ Assigned Refugees $(0.00215)$ $(0.00027)$ $(0.0021)$ $(0.0021)$ × East $0.00112^{***}$ $0.00136^{***}$ $0.00035$ $(0.00035)$ $(0.00035)$ × Share of Natives 2013 $0.00552^{**}$ $0.00045^{***}$ $0.00046^{***}$ $0.00047^{***}$ × Mean NSDAP Vote Share $0.00064^{***}$ $0.00069^{***}$ $0.00061^{***}$ $0.00061^{***}$ (0.0015) $(0.00015)$ $(0.00015)$ $(0.00018)$ $(0.00016)$ Yes< Yes	$\Delta$ Hate Crimes per 100,00 Residents	(1)	(2)	(3)	(4)
Panel A: ITT					
Assigned Refugees $-0.00470^{**}$ $0.00018$ $-0.0007$ $-0.00434^{**}$ Assigned Refugees       (0.00215)       (0.00012)       (0.00027)       (0.00211)         × East $0.00112^{***}$ $0.00121^{***}$ $0.00136^{***}$ $0.00098^{***}$ × East $0.00122^{***}$ $0.00136^{***}$ $0.00037$ )       (0.00035)       (0.00037)         × Hate Crime 90s $0.00552^{**}$ $0.00045^{***}$ $0.00047^{***}$ (0.00016)         × Mean NSDAP Vote Share $0.00064^{***}$ $0.00069^{***}$ $0.00061^{***}$ $0.00061^{***}$ Year Dummy       Yes       Yes       Yes       Yes       Yes       Yes         State Fixed Effects       Yes       Yes       Yes       Yes       Yes         Outol Variables       No       No       No       No       No         A Refugees $-0.00892^{***}$ $0.00014^{*}$ $0.00064^{***}$ $0.00014^{*}$ $0.00023$ ) $\Delta$ Refugees $-0.00892^{***}$ $0.00014^{*}$ $0.00014^{*}$ $0.00013^{*}$ $0.00014^{*}$ $\times$ Share of Natives 2013 $0.0111^{***}$ $0.000316^{**}$ $0.00014^{***}$ $0.00064^{***}$ $0.00$	Panel A: ITT				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Assigned Refugees	-0.00470**	0.00018	-0.00007	-0 00434**
Assigned Refugees $(0.00211)$ $(0.00021)$ $(0.00021)$ $(0.00021)$ × East $0.00112^{***}$ $0.0012^{***}$ $0.00035$ $(0.00035)$ $(0.00035)$ × Share of Natives 2013 $0.0055^{***}$ $0.00045^{***}$ $0.00045^{***}$ $0.000468^{**}$ × Hate Crime 90s $0.00045^{***}$ $0.00016)$ $(0.00016)$ $(0.00016)$ × Mean NSDAP Vote Share $0.00064^{***}$ $0.00069^{***}$ $0.00061^{***}$ $0.00061^{***}$ Year Dummy       Yes       Yes       Yes       Yes       Yes       Yes         Year Dummy       Yes       Yes       Yes       Yes       Yes       Yes         Control Variables       No       No       No       No       No         Adfigees $-0.00892^{***}$ $0.00015^{**}$ $0.00014^{***}$ $0.00025^{**}$ × East $0.00114^{***}$ $0.00014^{***}$ $0.00045^{***}$ $0.00045^{***}$ × East $0.0019^{**}$ $0.00014^{**}$ $0.00014^{***}$ $0.00025^{***}$ × Share of Natives 2013 $0.01019^{***}$ $0.00016^{***}$ $0.000047^{***}$ $0.000045^{***}$ $0.000047^{***}$ <t< td=""><td>Assigned Refugees</td><td>(0.00170)</td><td>(0.00012)</td><td>(0.00007)</td><td>(0.00191)</td></t<>	Assigned Refugees	(0.00170)	(0.00012)	(0.00007)	(0.00191)
x East $0.00112^{***}$ $0.00121^{***}$ $0.00136^{***}$ $0.00098^{***}$ x East $(0.00037)$ $(0.00035)$ $(0.00037)$ $(0.00038)$ x Share of Natives 2013 $0.00552^{**}$ $0.00045^{***}$ $0.00048^{***}$ x Mean NSDAP Vote Share $0.00064^{***}$ $0.00064^{***}$ $0.00064^{***}$ $0.00064^{***}$ x Mean NSDAP Vote Share $0.00064^{***}$ $0.00069^{***}$ $0.00064^{***}$ $0.00069^{***}$ AME [Refugees] $0.00064^{***}$ $0.00069^{***}$ $0.00063^{***}$ $0.000083^{***}$ (0.00115)       (0.00015)       (0.00015)       (0.00018)       (0.00083^{***})         Year Dummy       Yes       Yes       Yes       Yes       Yes         State Fixed Effects       Yes       Yes       Yes       Yes       Yes         Adj. $R^2$ $0.49$ $0.49$ $0.49$ $0.49$ $0.00013^{***}$ $0.000167^{***}$ $0.00025^{***}$ $\Delta$ Refugees $-0.00892^{***}$ $0.00013^{***}$ $0.000167^{***}$ $0.00025^{***}$ $0.000047^{**}$ $(0.00047)$ $(0.00047)$ $(0.00047)$ $(0.00047)$ $(0.00047)$ $(0.00047)$ <td< td=""><td>Assigned Refugees</td><td>(0.00213)</td><td>(0.00012)</td><td>(0.00027)</td><td>(0.00211)</td></td<>	Assigned Refugees	(0.00213)	(0.00012)	(0.00027)	(0.00211)
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	× East	0.00112***	0.00121***	0.00136***	0.0008***
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	× East	(0.00112)	(0.00121)	(0.00130)	(0.00098)
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	V Share of Nativas 2012	(0.00037)	(0.00033)	(0.00037)	(0.00038)
$ \begin{tabular}{ c c c c c c } & & & & & & & & & & & & & & & & & & &$	× Share of Natives 2015	(0.00332			(0.00408
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	V Hete Crime 00-	(0.00240)	0 000 45***		(0.00239)
$ \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	× Hate Chime 90s		0.00045		0.00047
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Marris NGDAD V-4- Chang		(0.00016)	0.00170	(0.00016)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	× Mean NSDAP vole Snare			0.00179	0.00131
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				(0.00111)	(0.00108)
$\begin{array}{c cccccc} \mbox{Aver}[[{\rm retugees}] & 0.00069 & 0.00069 & 0.00061 & 0.00083 & 0.00015) \\ \hline (0.00015) & (0.00015) & (0.00018) & (0.00016) \\ \hline (0.00015) & (0.00018) & (0.00016) & (0.00016) \\ \hline (0.00015) & (0.00018) & (0.00016) & (0.00016) \\ \hline Yes & Yes & Yes & Yes & Yes \\ \hline State Fixed Effects & Yes & Yes & Yes & Yes \\ \hline Control Variables & No & No & No & No \\ Adj. R^2 & 0.49 & 0.49 & 0.48 & 0.49 \\ N & 804 & 804 & 788 & 788 \\ \hline Panel B: IV & & & & & & & & & & & & & & & & & & $	AME [Bofugoos]	0 00041***	0 00040***	0 00041***	0 00002***
Year Dummy Year Dummy State Fixed EffectsYes YesYes 	AME[Relugees]	(0.00015)	0.00009	0.00001	0.00083
Test Dummy       Yes       Yes       Yes       Yes       Yes         State Fixed Effects       Yes       Yes       Yes       Yes       Yes         Control Variables       No       No       No       No       No         Adj. $R^2$ 0.49       0.49       0.49       0.48       0.49         N       804       804       788       788         Panel B: IV $\Delta$ Refugees       -0.00892***       0.00034       -0.00014       -0.00926*** $\times$ East       0.00119**       0.00136***       0.00167***       0.00095* $\times$ East       0.00119***       0.00136***       0.00167***       0.00095* $(0.00047)$ (0.00047)       (0.00047)       (0.00047)       (0.0032) $\times$ Hate Orime 90s       0.001041***       0.00103***       0.00064** $(0.00025)$ (0.00025)       (0.00025)       (0.00025) $\times$ Mean NSDAP Vote Share       0.00098***       0.00103***       0.00083**       0.00146         AME [Refugees]       0.00098***       0.00103***       0.00033)       (0.00033)       (0.00033)         Year Dummy       Yes       Yes       Yes       Yes       <	VD.	(0.00015)	(0.00015)	(0.00018) N	(0.00010)
State Fixed Effects       Yes	Year Dummy	Yes	Yes	Yes	Yes
Control Variables       No       No       No       No       No       No       No       No         Adj. $R^2$ 0.49       0.49       0.49       0.48       0.49         N       804       804       788       788         Panel B: IV $\Delta$ Refugees       -0.00892***       0.00034       -0.0014       -0.00926*** $\Delta$ Refugees       (0.00316)       (0.00029)       (0.00045)       (0.00337) $\Delta$ Refugees       0.00119**       0.00136***       0.00167***       0.00095*         × East       0.01041***       0.00047)       (0.00047)       (0.00047)       (0.00049)         × Share of Natives 2013       0.01041***       0.01039***       0.00069***       0.00064**         (0.00025)       (0.00025)       (0.00025)       (0.00025)         × Mean NSDAP Vote Share       0.00098***       0.00103***       0.00161         (0.00142)       (0.00142)       (0.00145)       (0.00146)         AME [Refugees]       0.00098***       0.00103***       0.00083**       0.00135         Year Dummy       Yes       Yes       Yes       Yes       Yes	State Fixed Effects	Yes	Yes	Yes	Yes
Adj. $K^2$ $0.49$ $0.49$ $0.48$ $0.49$ $N$ $804$ $804$ $788$ $788$ Panel B: IV $\Delta$ Refugees $-0.00892^{***}$ $0.00034$ $-0.00014$ $-0.00926^{***}$ $\Delta$ Refugees $(0.00316)$ $(0.00029)$ $(0.00045)$ $(0.00337)$ $\Delta$ Refugees $(0.00047)$ $(0.00047)$ $(0.00047)$ $(0.00047)$ $\times$ Share of Natives 2013 $0.01041^{***}$ $0.00167^{***}$ $0.00069^{***}$ $\times$ Hate Crime 90s $(0.00359)$ $(0.00025)$ $(0.00025)$ $\times$ Mean NSDAP Vote Share $0.00098^{***}$ $0.00103^{***}$ $0.00083^{**}$ $AME$ [Refugees] $0.00098^{***}$ $0.00103^{***}$ $0.00033)$ $(0.00035)$ $(0.00030)$ $(0.00033)$ $(0.00035)$ $(0.00033)$ Year DummyYesYesYesYesYes	Control Variables	No	No	No	No
N         804         804         788         788           Panel B: IV $\Delta$ Refugees $-0.00892^{***}$ $0.00034$ $-0.00014$ $-0.00926^{***}$ $\Delta$ Refugees $(0.00316)$ $(0.00029)$ $(0.00045)$ $(0.00337)$ $\Delta$ Refugees $(0.00047)$ $(0.00167^{***})$ $0.00195^{***}$ $0.00047)$ $(0.00047)$ $(0.00047)$ $(0.00047)$ $(0.00047)$ $(0.00047)$ $(0.00047)$ $(0.00047)$ $(0.000392)$ × East $0.01041^{***}$ $0.0103^{***}$ $0.01039^{***}$ $0.01039^{***}$ × Share of Natives 2013 $0.01041^{***}$ $0.00069^{***}$ $0.00064^{**}$ $0.00064^{**}$ × Hate Crime 90s $0.00025)$ $(0.00025)$ $(0.00142)$ $(0.00146)$ × Mean NSDAP Vote Share $0.00098^{***}$ $0.00103^{***}$ $0.00083^{**}$ $0.00135^{***}$ AME [Refugees] $0.00098^{***}$ $0.00103^{***}$ $0.00033)$ $(0.00033)$ $(0.00035)$ $(0.00033)$ Year Dummy         Yes         Yes         Yes         Yes         Yes         Yes         Yes         <	Adj. R <sup>2</sup>	0.49	0.49	0.48	0.49
Panel B: IV $\Delta$ Refugees $-0.00892^{***}$ $0.00034$ $-0.00014$ $-0.00926^{***}$ $\Delta$ Refugees       (0.00316)       (0.00029)       (0.00045)       (0.00337) $\Delta$ Refugees       0.00119^{**}       0.00136^{***}       0.00167^{***}       0.00095^* $\times$ East       0.00047)       (0.00047)       (0.00047)       (0.00047)       (0.00047) $\times$ Share of Natives 2013       0.01041^{***}       0.01039^{***}       0.01039^{***} $\times$ Hate Crime 90s       (0.00359)       (0.00025)       (0.00025) $\times$ Mean NSDAP Vote Share       0.00098^{***}       0.00103^{***}       0.00135^{***}         AME[Refugees]       0.00098^{***}       0.00133^{***}       0.00135^{****} $(0.00030)$ (0.00033)       (0.00035)       (0.00033)         Year Dummy       Yes       Yes       Yes       Yes	N	804	804	788	788
Panel B: IV $\Delta$ Refugees $-0.00892^{***}$ $0.00034$ $-0.00014$ $-0.00926^{***}$ $\Delta$ Refugees $(0.00316)$ $(0.00029)$ $(0.00045)$ $(0.00337)$ $\Delta$ Refugees $0.00119^{**}$ $0.00136^{***}$ $0.00167^{***}$ $0.00095^{*}$ $\times$ East $0.00119^{**}$ $0.00136^{***}$ $0.00167^{***}$ $0.00095^{*}$ $\times$ Share of Natives 2013 $0.01041^{***}$ $0.00069^{***}$ $0.00069^{***}$ $0.00069^{***}$ $\times$ Hate Crime 90s $0.00069^{***}$ $0.00069^{***}$ $0.00064^{**}$ $0.00064^{**}$ $\times$ Mean NSDAP Vote Share $0.00098^{***}$ $0.00103^{***}$ $0.00083^{**}$ $0.00135^{***}$ AME [Refugees] $0.00098^{***}$ $0.00103^{***}$ $0.00083^{**}$ $0.00135^{***}$ Year Dummy       Yes       Yes       Yes       Yes       Yes       Yes					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Panel B: IV				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\Delta$ Refugees	-0.00892***	0.00034	-0.00014	-0.00926***
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		(0.00316)	(0.00029)	(0.00045)	(0.00337)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\Delta$ Refugees				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	× East	0.00119**	0.00136***	0.00167***	$0.00095^{*}$
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		(0.00047)	(0.00047)	(0.00047)	(0.00049)
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\times$ Share of Natives 2013	0.01041***			0.01039***
$ \begin{array}{cccccc} \times & \text{Hate Crime 90s} & 0.00069^{***} & 0.00064^{**} \\ & & (0.00025) & (0.00025) \\ \times & \text{Mean NSDAP Vote Share} & 0.00161 \\ & & & 0.00098^{***} & 0.00103^{***} & 0.00182^{***} \\ & & & (0.00030) & (0.00033) & (0.00035) & (0.00033) \\ & & & & & & & & & & & & & & & & & & $		(0.00359)			(0.00392)
× Mean NSDAP Vote Share       (0.00025)       (0.00025)         × Mean NSDAP Vote Share       0.00280**       0.00161         AME[Refugees]       0.00098***       0.00103***       0.00083**       0.00135***         (0.00030)       (0.00033)       (0.00035)       (0.00033)         Year Dummy       Yes       Yes       Yes       Yes	$\times$ Hate Crime 90s		0.00069***		0.00064**
× Mean NSDAP Vote Share       0.00280**       0.00161         (0.00142)       (0.00146)         AME[Refugees]       0.00098***       0.00103***       0.00083**         Year Dummy       Yes       Yes       Yes			(0.00025)		(0.00025)
AME[Refugees]       0.00098***       0.00103***       0.00083**       0.00135***         Year Dummy       Yes       Yes       Yes       Yes       Yes       Yes	$\times$ Mean NSDAP Vote Share		(	0.00280**	0.00161
AME[Refugees]       0.00098***       0.00103***       0.00083**       0.00135***         (0.00030)       (0.00033)       (0.00035)       (0.00033)         Year Dummy       Yes       Yes       Yes       Yes				(0.00142)	(0.00146)
AME [Refugees]0.00098***0.00103***0.00083**0.00135***(0.00030)(0.00033)(0.00035)(0.00033)Year DummyYesYesYesYes				(	(
Year Dummy         Yes         Yes	AME[Refugees]	0.00098***	0.00103***	0.00083**	0.00135***
Year Dummy Yes Yes Yes Yes		(0.00030)	(0.00033)	(0.00035)	(0.00033)
100 100 100	Year Dummy	Yes	Yes	Yes	Yes
State Fixed Effects Yes Yes Yes Yes	State Fixed Effects	Yes	Yes	Yes	Yes
Control Variables No No No	Control Variables	No	No	No	No
Sanderson–Windmeijer <i>F-stats</i> 193.09 11.26 2.13.51 190.77	Sanderson–Windmeijer <i>F-stats</i>	193.09	11.26	213.51	190.77
264.09 152.62 116.72 255.99		264.09	152.62	116 72	255 99
181 23		181.23	102.02	110.72	168.00
77 1 <i>A</i> 86 0 <i>A</i>		101.23	77 14		86.04
307 3 <i>A</i> 260 27			//.17	307 34	262 37
N 780 780 762 762	Ν	780	780	762	762

Table A6: Measures of Regional Xenophobia on Hate Crime (Two-way Fixed Effects Approach)

Note: The table shows the two-way fixed effect regression results of hate crime against refugees per 100,000 residents on either the assigned number of refugees per 100,000 residents (Panel A) or the number of refugees per 100,000 residents (Panel B). Refugee measures are interacted with the dummy variable *East*, which takes the value of 1 if the district belongs to East Germany and 0 otherwise with either the share of Germans living in the district in 2013, a dummy variable *Hate Crime 90s*, which takes on the value of 1 if hate crimes against foreigners occurred in the district between 1991 and 1993, and 0 otherwise, or the average share of votes cast for the NSDAP between 1928 and 1933. Column (4) presents the results of a model that includes all interaction. Panel A refers to the ITT, while Panel B estimates the IV approach. Control variables are the same as in Table 3. Standard errors are clustered at the district level and displayed in parentheses. Statistical significance is indicated by asterisks according to: \* p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01.

Dependent Variable: Number of Hate Crimes	(1)	(2)	(3)	(4)	(5)
Assigned Refugees	0.00074*	-0.00586**	0.00082	-0.00039	-0.00325
	(0.00042)	(0.00238)	(0.00056)	(0.00044)	(0.00257)
Assigned Refugees					
×East	-0.00091***	-0.00123***	-0.00089***	-0.00112***	-0.00124***
	(0.00028)	(0.00035)	(0.00028)	(0.00037)	(0.00042)
$\times$ Share of Natives 2013		0.00755***			0.00335
		(0.00282)			(0.00295)
$\times$ Hate Crime 90s			-0.00009		0.00010
			(0.00041)		(0.00041)
$\times$ Mean NSDAP Vote Share				0.00756***	0.00656**
				(0.00268)	(0.00275)
2015 Year Dummy	Yes	Yes	Yes	Yes	Yes
District Fixed Effects	Yes	Yes	Yes	Yes	Yes
Control Variables	Yes	Yes	Yes	Yes	Yes
Pseudo $R^2$	0.67	0.67	0.67	0.67	0.67
N	804	804	804	788	788

Table A7: Poisson Pseudo-Maximum Likelihood Estimates of Regional Xenophobia on Hate Crime

Note: The table shows poisson pseudo-maximum likelihood regression results using ppmlhdfe from Correia et al. (2020). The number of hate crimes against refugees is used as dependent variable. The main independent variable assigned refugees per 100,000 residents is either interacted with the dummy variable *East*, which takes on the value of 1 if the district belongs to the former territory of the German Democratic Republic and 0 otherwise, and with either the share of Germans living in the district between 1901, a dummy variable *Hate Crime 90s*, which takes on the value of 1 if hate crimes against foreigners occurred in the district between 1991 and 1993, and 0 otherwise, or the average share of votes cast for the NSDAP between 1928 and 1933. Column (5) presents the results of a model that includes all interaction. Control variables are the same as in Table 3. Standard errors are clustered at the district level and displayed in parentheses. Statistical significance is indicated by asterisks according to: p < 0.10, p < 0.05, p < 0.01.

Dependent Variable:	(1)	(2)	(3)	(4)	(5)
$\Delta$ Hate Crimes per 100,00 Residents	(1)	(2)	(3)	(4)	(5)
Donal A. ITT					
Panel A: III	0.00004	0.00072**	0.00004	0.00001	0.00046**
Assigned Relugees	0.00004	-0.00072	0.00004	(0.00001)	-0.00066
	(0.00003)	(0.00031)	(0.00003)	(0.00006)	(0.00031)
Assigned Refugees	0.00000**	0.00010*	0.000.00**	0.000.00**	0.00010*
× East	0.00023	0.00018	0.00022	0.00023	0.00019
	(0.00010)	(0.00010)	(0.00010)	(0.00010)	(0.00010)
$\times$ Share of Natives 2013		0.00084**			0.00076***
		(0.00035)			(0.00036)
$\times$ Hate Crime 90s			0.00001		0.00001
			(0.00003)		(0.00003)
$\times$ Mean NSDAP Vote Share				0.00009	0.00002
				(0.00019)	(0.00019)
AME[Refugees]	$0.00008^{***}$	$0.00009^{***}$	$0.00009^{***}$	$0.00008^{***}$	$0.00010^{***}$
	(0.00003)	(0.00003)	(0.00003)	(0.00003)	(0.00003)
Year Dummy	Yes	Yes	Yes	Yes	Yes
State Fixed Effects	Yes	Yes	Yes	Yes	Yes
Control Variables	Yes	Yes	Yes	Yes	Yes
Adj. $R^2$	0.18	0.18	0.18	0.18	0.18
N	804	804	804	788	788
Den al D. IV					
A Defugees	0.00006	0.00125**	0.00006	0.00002	0.00126**
$\Delta$ Relugees	0.00006	-0.00135	0.00006	0.00002	-0.00126
	(0.00005)	(0.00055)	(0.00005)	(0.00010)	(0.00055)
$\Delta$ Refugees	0.00040**	0.00020	0.00020**	0.00041**	0.00020*
× East	0.00040	0.00030	0.00039	0.00041	0.00030
	(0.00018)	(0.00018)	(0.00018)	(0.00018)	(0.00018)
$\times$ Share of Natives 2013		0.00157			0.00146
		(0.00062)			(0.00065)
$\times$ Hate Crime 90s			0.00003		0.00002
			(0.00005)		(0.00005)
$\times$ Mean NSDAP Vote Share				0.00017	0.00002
				(0.00043)	(0.00044)
AME[Refugees]	0.00013**	0.00017***	0.00015**	0.00014**	0.00017***
	(0.00006)	(0.00005)	(0.00006)	(0.00006)	(0.00006)
Year Dummy	Yes	Yes	Yes	Yes	Yes
State Fixed Effects	Yes	Yes	Yes	Yes	Yes
Control Variables	Yes	Yes	Yes	Yes	Yes
Sanderson–Windmeijer F-stats	15.04	563.21	27.76	540.81	453.81
	168.57	349.31	211.93	181.92	354.06
		499.69			387.60
			382.62		487.28
				800.42	761.46
Adj. $R^2$	0.14	0.15	0.14	0.14	0.14
N	780	780	780	762	762

## Table A8: Measures of Regional Xenophobia on Violent Hate Crime

Note: The table shows the first-difference regression results of violent hate crime against refugees per 100,000 residents on either the assigned number of refugees per 100,000 residents (Panel A) or the first-difference of refugees per 100,000 residents (Panel B). Refugees measures are interacted with the dummy variable *East*, which takes the value of 1 if the district belongs to East Germany and 0 otherwise, and with either the share of Germans living in the district between 1991 and 1993, and 0 otherwise, or the average share of votes cast for the NSDAP between 1928 and 1933. Column (5) presents the results of a model that includes all interaction. Panel A refers to the ITT, while Panel B estimates the IV approach. Control variables are the same as in Table 3. Standard errors are clustered at the district level and displayed in parentheses. Statistical significance is indicated by asterisks according to: \* p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01.

Dependent Variable: A Hate Crimes per 100 00 Residents	(1)	(2)	(3)	(4)
Panel A: ITT	0 0 0 *	0.000	0.00000	0 0 0*
Assigned Refugees	-0.00254*	0.00014	-0.00008	-0.00244*
	(0.00134)	(0.00011)	(0.00020)	(0.00132)
Assigned Refugees				
$\times$ East	0.00147***	0.00154***	0.00164***	0.00138***
	(0.00037)	(0.00036)	(0.00036)	(0.00037)
$\times$ Share of Natives 2013	0.00303**			0.00258*
	(0.00148)			(0.00149)
$\times$ Hate Crime 90s		0.00028**		0.00029**
		(0.00011)		(0.00011)
$\times$ Mean NSDAP Vote Share			0.00132*	0.00117
			(0.00076)	(0.00075)
	0 000 ****	0.000	0 000 * * *	0 000***
AME[Refugees]	0.00056***	0.00061***	0.00055***	0.00067***
	(0.00011)	(0.00012)	(0.00012)	(0.00012)
Year Dummy	Yes	Yes	Yes	Yes
State Fixed Effects	Yes	Yes	Yes	Yes
Control Variables	Yes	Yes	Yes	Yes
Adj. $R^2$	0.44	0.44	0.43	0.44
N	804	804	778	778
Panel B: IV				
$\Delta$ Refugees	-0.00593***	0.00033	-0.00021	-0.00605***
	(0.00221)	(0.00024)	(0.00036)	(0.00228)
$\Delta$ Refugees				
imes East	0.00239***	0.00265***	0.00280***	0.00218***
	(0.00068)	(0.00068)	(0.00067)	(0.00070)
$\times$ Share of Natives 2013	0.00701***			0.00663**
	(0.00252)			(0.00266)
$\times$ Hate Crime 90s		$0.00040^{**}$		0.00040**
		(0.00019)		(0.00019)
imes Mean NSDAP Vote Share			0.00271**	$0.00214^{*}$
			(0.00122)	(0.00123)
AME[Refugees]	0.00014***	0.00011*	0.00008	0.00017***
	(0.00005)	(0.00006)	(0.00006)	(0.00006)
Year Dummy	Yes	Yes	Yes	Yes
State Fixed Effects	Yes	Yes	Yes	Yes
Control Variables	Yes	Yes	Yes	Yes
Sanderson–Windmeijer F-stats	618.88	26.23	519.83	503.60
	333.56	200.34	181.07	335.18
	549.93			427.58
		413.92		516.86
			781.41	749.12
Adj. $R^2$	0.31	0.30	0.30	0.29
$N_{-}$	780	780	762	762

Table A9: Measures of Regional Xenophobia on Hate Crime Controlling for Crime Clearance Rates

Note: The table shows the first-difference regression results of hate crime against refugees per 100,000 residents on either the assigned number of refugees per 100,000 residents (Panel A) or the first-difference of refugees per 100,000 residents (Panel B). Refugee measures are interacted with the dummy variable *East*, which takes the value of 1 if the district belongs to East Germany and 0 otherwise with either the share of Germans living in the district in 2013, a dummy variable *Hate Crime 90s*, which takes on the value of 1 if hate crimes against foreigners occurred in the district between 1991 and 1993, and 0 otherwise, or the average share of votes cast for the NSDAP between 1928 and 1933. Column (4) presents the results of a model that includes all interaction. Panel A refers to the ITT, while Panel B estimates the IV approach. Control variables are the same as in Table 3 and additionally include clear-up rates for violent and total crime. Standard errors are clustered at the district level and displayed in parentheses. Statistical significance is indicated by asterisks according to: \* p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01.

Dependent Variable:				
$\Delta$ Hate Crimes per 100.00 Residents	(1)	(2)	(3)	(4)
Panel A: ITT	0.000(7**	0.00011	0.00012	0.00050*
Assigned Refugees	-0.0026/**	0.00011	-0.00013	-0.00252
	(0.00136)	(0.00011)	(0.00020)	(0.00132)
Assigned Refugees	0.001.40***	0 001 5 5 * * *	0.001/5***	0.00100***
$\times$ East	0.00148***	0.00155	0.00165	0.00139
	(0.00037)	(0.00036)	(0.00036)	(0.00037)
$\times$ Share of Natives 2013	0.00314**			0.00261*
	(0.00151)			(0.00150)
$\times$ Hate Crime 90s		0.00029**		0.00030***
		(0.00012)		(0.00012)
$\times$ Mean NSDAP Vote Share			$0.00140^{*}$	0.00124*
			(0.00075)	(0.00075)
AME[Refugees]	0.00053***	0.00059***	0.00052***	0.00066***
	(0.00013)	(0.00014)	(0.00014)	(0.00013)
Year Dummy	Yes	Yes	Yes	Yes
State Fixed Effects	Yes	Yes	Yes	Yes
Control Variables	Yes	Yes	Yes	Yes
Adj. $R^2$	0.43	0.44	0.43	0.43
$N_{-}$	804	804	778	778
Panel B: IV				
$\Delta$ Refugees	-0.00599**	0.00027	-0.00031	-0.00612**
C	(0.00238)	(0.00025)	(0.00036)	(0.00245)
$\Delta$ Refugees	. , ,			. ,
× East	0.00249***	0.00274***	0.00291***	0.00227***
	(0.00070)	(0.00070)	(0.00070)	(0.00071)
$\times$ Share of Natives 2013	0.00701***	· · · ·	· · · · ·	0.00659**
	(0.00272)			(0.00286)
$\times$ Hate Crime 90s	(,	0.00045**		0.00045**
		(0.00020)		(0.00020)
$\times$ Mean NSDAP Vote Share		(0.000-0)	0.00295**	0.00239*
			(0.00122)	(0.00122)
			(000000000)	(01000)
AME[Refugees]	0.00099***	0.00107***	0.00094***	0.00127***
	(0.00028)	(0.00031)	(0.00030)	(0.00030)
Year Dummy	Yes	Yes	Yes	Yes
State Fixed Effects	Yes	Yes	Yes	Yes
Control Variables	Yes	Yes	Yes	Yes
Sanderson–Windmeijer <i>F-stats</i>	573 73	27 44	535 73	457.85
Sunderson windmerjer i stats	339.26	200.09	162 57	362.65
	505 73	200.07	102.57	390.24
	505.15	349.01		459.65
		579.01	780.81	755 00
Adi $B^2$	0.30	0.20	0.30	0.28
N	780	780	762	762
1 T	/00	,00	102	102

Table A10: Measures of Regional Xenophobia on Hate Crime Controlling for Spatial Spillovers by Car Driving Time

Note: The table shows the first-difference regression results of hate crime against refugees per 100,000 residents on either the assigned number of refugees per 100,000 residents (Panel A) or the first-difference of refugees per 100,000 residents (Panel B). Refugees measures are interacted with the dummy variable *East*, which takes the value of 1 if the district belongs to East Germany and 0 otherwise with either the share of Germans living in the district in 2013, a dummy variable *Hate Crime 90s*, which takes on the value of 1 if hate crimes against foreigners occurred in the district between 1991 and 1993, and 0 otherwise, or the average share of votes cast for the NSDAP between 1928 and 1933. Column (4) presents the results of a model that includes all interaction. Panel A refers to the ITT, while Panel B estimates the IV approach. Control variables are the same as in Table 3 and additionally includes the spatial lag of the dependent variable weighted by the car driving time between district centroids. Standard errors are clustered at the district level and displayed in parentheses. Statistical significance is indicated by asterisks according to: \* p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01.

Dependent Variable:				
$\Delta$ Hate Crimes per 100.00 Residents	(1)	(2)	(3)	(4)
Panel A: ITT	0.000(7*	0.00010	0.00012	0.00050*
Assigned Refugees	-0.00267*	0.00012	-0.00013	-0.00253*
	(0.00136)	(0.00011)	(0.00020)	(0.00133)
Assigned Refugees	0 001 10***	0 001 7 1 ***	0 0 0 1 6 - * * *	0 001 10***
$\times$ East	0.00149***	0.00156***	0.00167***	0.00140***
	(0.00037)	(0.00036)	(0.00037)	(0.00037)
$\times$ Share of Natives 2013	0.00314**			0.00263*
	(0.00152)			(0.00151)
$\times$ Hate Crime 90s		0.00030**		0.00031***
		(0.00012)		(0.00012)
$\times$ Mean NSDAP Vote Share			0.00143*	$0.00128^{*}$
			(0.00077)	(0.00076)
AME [Refugees]	0.00054***	0.00060***	0.00053***	0.00067***
	(0.00013)	(0.00014)	(0.00014)	(0.00013)
Year Dummy	Yes	Yes	Yes	Yes
State Fixed Effects	Yes	Yes	Yes	Yes
Control Variables	Yes	Yes	Yes	Yes
Adj. $R^2$	0.43	0.44	0.43	0.43
N	804	804	778	778
Panel B: IV				
$\Delta$ Refugees	-0.00604**	0.00028	-0.00033	-0.00624**
	(0.00240)	(0.00025)	(0.00036)	(0.00248)
$\Delta$ Refugees	(	(,	(	(
×East	0.00252***	0.00278***	0.00296***	0.00231***
	(0.00070)	(0,00070)	(0,00071)	(0,00072)
$\times$ Share of Natives 2013	0.00708***	(0100070)	(0100071)	0.00670**
	(0.00275)			(0.00288)
$\times$ Hate Crime 90s	(0.00275)	0.00047**		0.00046**
A flate of flate you		(0,00020)		(0,00020)
✓ Mean NSDAP Vote Share		(0.00020)	0.00311**	0.00256**
			(0.00011)	(0.00230)
			(0.00123)	(0.00125)
AME[Refugees]	0.00101***	0.00109***	0 00096***	0.00131***
	(0.00101)	(0.0010)	(0,00030)	(0.00131)
Vear Dummy	(0.00020) Ves	(0.00051) Ves	(0.00050) Ves	(0.00051) Ves
State Fixed Effects	Ves	Ves	Ves	Ves
Control Variables	Ves	Ves	Ves	Ves
Sonderson Windmeijer $E_stats$	565 72	26.57	535.00	103
	330.37	20.37	164.08	358 40
	227.27 109 61	203.02	104.08	330.47 387 77
	498.01	217 15		302.12 155 70
		347.13	776 00	433.10
Ad; $D^2$	0.20	0.20	//0.08	/42.00
	720	720	0.29	0.28
1 N	/00	100	102	102

Table A11: Measures of Regional Xenophobia on Hate Crime Controlling for Spatial Spillovers by Jump Distance

Note: The table shows the first-difference regression results of hate crime against refugees per 100,000 residents on either the assigned number of refugees per 100,000 residents (Panel A) or the first-difference of refugees per 100,000 residents (Panel B). Refugees measures are interacted with the dummy variable *East*, which takes the value of 1 if the district belongs to East Germany and 0 otherwise with either the share of Germans living in the district in 2013, a dummy variable *Hate Crime 90s*, which takes on the value of 1 if hate crimes against foreigners occurred in the district between 1991 and 1993, and 0 otherwise, or the average share of votes cast for the NSDAP between 1928 and 1933. Column (4) presents the results of a model that includes all interaction. Panel A refers to the ITT, while Panel B estimates the IV approach. Control variables are the same as in Table 3 and additionally includes the spatial lag of the dependent variable weighted by the jump distance between district centroids. Standard errors are clustered at the district level and displayed in parentheses. Statistical significance is indicated by asterisks according to: \* p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01.

Dependent Variable: $\Delta$ Hate Crimes per 100,00 Residents	(1)	(2)	(3)	(4)
Panel A: ITT	0.000(7	0.00010	0.00012	0.00252
Assigned Refugees	-0.00267	(0.00012)	-0.00013	-0.00252
	(0.00130)	(0.00010)	(0.00020)	(0.00132)
Assigned Refugees	[0.00118]	[0.00008]	[0.00014]	[0.00112]
× Fast	0.00150	0.00156	0.00166	0.00139
× Last	(0.00130)***	(0.00130	(0.00100	(0.00137)***
	[0.00036]***	[0.00036]***	[0.00035]***	[0.00036]***
$\times$ Share of Natives 2013	0.00315	[0.00050]	[0.00055]	0.00262
	(0.00151)**			$(0.00150)^*$
	[0.00134]**			[0.00130]**
$\times$ Hate Crime 90s	[]	0.00030		0.00031
		(0.00011)***		$(0.00011)^{***}$
		[0.00010]***		[0.00011]***
$\times$ Mean NSDAP Vote Share			0.00142	0.00125
			$(0.00075)^*$	$(0.00074)^*$
			[0.00054]***	[0.00058]**
Year Dummy	Yes	Yes	Yes	Yes
State Fixed Effects	Yes	Yes	Yes	Yes
Control Variables	Yes	Yes	Yes	Yes
N	804	804	788	788
Panel B: IV	0.00600			0 00 CO <b>T</b>
$\Delta$ Refugees	-0.00600	0.00027	-0.00031	-0.00607
	$(0.00237)^{+}$	(0.00025)	(0.00036)	(0.00240)
A Defugees	[0.00250]	[0.00018]	[0.00028]	[0.00238]
∠ Relugees	0.00250	0.00274	0.00200	0.00227
× East	(0.00230	(0.00274	(0.00290	(0.00227
	[0.00009]	[0.00082]***	(0.00008)	(0.00070)
$\times$ Share of Natives 2013	0.00703	[0.00002]	[0.00070]	0.00654
A bhare of Harries 2010	$(0.00271)^{***}$			$(0.00280)^{**}$
	[0.00289]**			[0.00276]**
$\times$ Hate Crime 90s	[]	0.00045		0.00044
		(0.00020)**		$(0.00019)^{**}$
		[0.00021]**		[0.00022]**
$\times$ Mean NSDAP Vote Share			0.00293	0.00237
			$(0.00120)^{**}$	(0.00121)*
			[0.00109]***	[0.00106]**
Year Dummy	Yes	Yes	Yes	Yes
State Fixed Effects	Yes	Yes	Yes	Yes
Control Variables	Yes	Yes	Yes	Yes
N	780	780	762	762

Table A12: Measures of Regional Xenophobia, East Germany, and Hate Crime: HAC Standard Errors

Note: The table shows the first-difference regression results of hate crime against refugees per 100,000 residents on either the assigned number of refugees per 100,000 residents (Panel B) or the first-difference of refugees per 100,000 residents (Panel B) using acreg from Colella et al. (2019). Refugee measures are interacted with the dummy variable *East*, which takes the value of 1 if the district belongs to East Germany and 0 otherwise with either the share of Germans living in the district in 2013, a dummy variable *Hate Crime 90s*, which takes on the value of 1 if hate crimes against foreigners occurred in the district between 1991 and 1993, and 0 otherwise, or the average share of votes cast for the NSDAP between 1928 and 1933. Column (4) presents the results of a model that includes all interaction. Panel A refers to the ITT, while Panel B estimates the IV approach. Control variables are the same as in Table 3. Standard errors that are clustered at the district level are displayed in parentheses. Heteroskedastic and autocorrelation corrected (HAC) standard errors are displayed in brackets. Statistical significance is indicated by asterisks according to: \* p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01.

	(1)	(2)	(3)	(4)			
<b>Panel A:</b> Dependent Variable: Apole page Hate Crimes per 100.00 Residents							
$\sum_{t=2014}^{2015}$ Assigned Refugees <sub>t</sub>	-0.00371**	0.00024	0.00044	-0.00387**			
	(0.00166)	(0.00021)	(0.00035)	(0.00169)			
$\sum_{t=2014}^{2015}$ Assigned Refugees <sub>t</sub>							
$\times$ East	0.00105	0.00129*	0.00139*	0.00105			
	(0.00074)	(0.00077)	(0.00076)	(0.00075)			
$\times$ Share of Natives 2013	0.00437**			0.00485***			
	(0.00179)			(0.00186)			
$\times$ Hate Crime 90s		0.00009		0.00007			
		(0.00015)		(0.00014)			
imes Mean NSDAP Vote Share			-0.00084	-0.00126			
			(0.00097)	(0.00095)			
AME [Refusees]	0.00055***	0 00054***	0.00051**	0 00059***			
	(0.000000)	(0,00020)	(0.00023)	(0.00000)			
Year Dummy	(0.00010) No	(0.00020) No	(0.00022) No	(0.00010) No			
State Fixed Effects	Yes	Yes	Yes	Yes			
Control Variables	Yes	Yes	Yes	Yes			
Adi. $B^2$	0.46	0.45	0.45	0.46			
N	401	401	387	387			
<b>Panel R:</b> Dependent Variable: A	Desidents						
<b>Take D.</b> Dependent variable: $\Delta_{2013-2017}$ trate entries per 100,0	0 Residents						
$\sum_{t=0.014}^{2015}$ Assigned Refugees <sub>t</sub>	-0.00063	0.00010	0.00008	-0.00057			
$\Sigma_{i=2014}$ $C$ $C$ $v$	(0.00095)	(0.00009)	(0.00014)	(0.00096)			
$\sum_{t=0.014}^{2015}$ Assigned Refugees <sub>t</sub>		. ,		. ,			
$\times$ East	0.00010	0.00016	0.00012	0.00008			
	(0.00030)	(0.00030)	(0.00030)	(0.00030)			
$\times$ Share of Natives 2013	0.00080			0.00074			
	(0.00103)			(0.00103)			
$\times$ Hate Crime 90s		-0.00002		-0.00003			
		(0.00006)		(0.00006)			
imes Mean NSDAP Vote Share			0.00002	-0.00005			
			(0.00043)	(0.00043)			
AME [Refusees]	0.00013	0.00012	0.00011	0.00011			
	(0.00008)	(0.00009)	(0.00009)	(0.00011)			
Year Dummy	(0.00000) No	(0.0000)) No	(0.0000)) No	No			
State Fixed Effects	Yes	Yes	Yes	Yes			
Control Variables	Yes	Yes	Yes	Yes			
Adi, $R^2$	0.12	0.12	0.11	0.10			
N	401	401	387	387			

Table A13: Measures of Regional Xenophobia,	East Germany, a	and Hate Crime:	Beyond 2015
---	-----------------	-----------------	-------------

Note: The table shows the regression results of differenced hate crimes against refugees per 100,000 residents either from 2013 to 2016 (Panel A) or from 2013 to 2017 (Panel B) on the cumulated number of assigned refugees per 100,000 residents in 2014 and 2015. Refugee measures are interacted with the dummy variable *East*, which takes the value of 1 if the district belongs to East Germany and 0 otherwise with either the share of Germans living in the district in 2013, a dummy variable *Hate Crime 90s*, which takes on the value of 1 if hate crimes against foreigners occurred in the district between 1991 and 1993, and 0 otherwise, or the average share of votes cast for the NSDAP between 1928 and 1933. Column (4) presents the results of a model that includes all interaction. Control variables are the same as in Table 3. Number of observations are reduced to the cross-section and reflect a district merger performed in 2016 (Göttingen). Standard errors are clustered at the district level and displayed in parentheses. Statistical significance is indicated by asterisks according to: \* p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01.



Figure A1: Hate Crimes, Refugees, Foreigners, and NSDAP Vote Shares

Note: The figure presents the district-level distribution of key regional statistics. Panel (a) displays the total number of hate crimes against refugees per 100,000 residents in 2014 and 2015. Panel (b) displays the total number of violent hate crimes against refugees per 100,000 residents in 2014 and 2015. Panel (c) displays the total number of assigned refugees per 100,000 residents in 2014 and 2015. Black dots mark districts with state-run reception centers (EAE). Panel (d) displays the share of German-born residents in 2013. Panel (e) displays whether a district experienced at least one hate crime against foreigners between 1991 and 1993. Panel (f) displays the average share of votes cast for the NSDAP between 1928 and 1933.



## Figure A2: Comparison of Hate Crime Statistics

Note: This figure shows a comparison of hate crime cases against refugees in 2015 from two data sources. The left panel shows hate crime incidents from the Amadeu Antonio Foundations (AAS) and Pro Asyl used by Jäckle and König (2017). The right panel depicts hate crime incidents from the Federal Criminal Police Office (BKA, see Section 3). Own depiction.



Figure A3: Type of Hate Crime against Refugees in 2014 and 2015

Note: Left panel shows non-violent hate crimes against refugees whereas the right panel depicts violent hate crimes against refugees. Data comes from the Federal Criminal Police Office (see Section 3). Own depiction.



Figure A4: Predicted Hate Crime Incidents against Refugees per 100,000 Residents

Note: The figure displays the number of predicted hate crimes against refugees for combinations of the size of refugee inflows per 100,000 residents and with either the share of German-born residents in 2013 or the share of votes cast for the NSDAP between 1928 and 1933.