Between Arab and White: Syrians and the Naturalization Law

[Work in Progress]

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NBER Race and Stratification Working Group April 4, 2025

1/17

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- Legal institutions play a key role in reshaping group classifications:
 - Political and legal changes can affect and redraw such classifications (Lopez, White by Law)

2/17

• Most legal policies have imposed barriers to immigrant integration

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2/17

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 - ► Naming patterns, intermarriage, and residential integration
- Ongoing:
 - ► Text analysis on collected historical Arab-American newspapers & American newspapers
 - Novel Arabic Name Americanization Index using the bilingual: Syrian Business Directory (1908-1909)

3/17

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Concept of Whiteness > Timeline of Immigration Laws

- Predominantly Christians from different denominations
- Migrated due to: sectarian tensions, economic hardship, conscription into the Ottoman Army

4/17

Dow v United States

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Finally led to the naturalization of Dow based on:

"the generally received opinion...that inhabitants of a portion of Asia, including Syria,[are] to be classed as white persons."

Circuit Judge Charles Albert Woods (September 15, 1915)

This resulted in an extension of the privilege of being an American citizen to Arab Christians, (95% of the immigrants from the Arab world)

Historical US Census Data (1900-1930)

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Figure: Youssef Arbeely's census record. His sons founded Kawkab America, the first Arab-American newspaper in the US.

- 400,000+ individuals identified from Greater Syria (1880-1930) Arab Population in 1930
- US Census provides extensive demographic, family, and geographic data

→ Occupations

Arab and White Donia Kamel

6/17

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$$\mathsf{FNI}_{\mathsf{Name},n} = \tfrac{P_r(\mathsf{Name}|I_{n,\mathsf{pre-period}})}{P_r(\mathsf{Name}|I_{n,\mathsf{pre-period}}) + P_r(\mathsf{Name}|I_{N \setminus n,\mathsf{pre-period}})} \times 100$$

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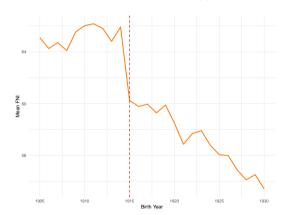
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• Measuring how the distribution of naming choices evolves relative to a consistent reference

7/17

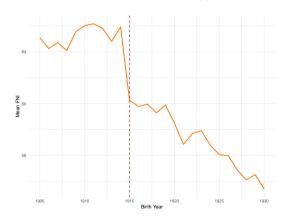
Descriptives: shift towards less Arab names

Around 64 in the pre-period, falls strongly post 1914

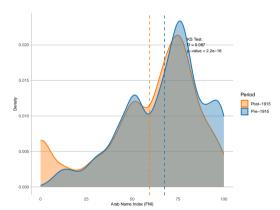


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FNI distributions (pre and post) significantly different from each other. E.g. Shafik/Nassif $\approx FN\,I=100,$ Wesley/Marvin $\approx FN\,I=0$



Most Common Names

Pre-Period	FNI	Post-Period	FNI
George	77.89	George	77.89
Joseph	72.45	Joseph	72.45
John	49.93	John	49.93
Edward	65.45	Edward	65.45
Fareed	100.00	Albert	64.64
Abraham	93.18	Louis	69.08
Michael	86.27	James	50.89

Within-family analysis

Using the 1920 US census

$$\text{FNI}_{\texttt{ijsco}} = \beta_1 \textbf{PostDow}_{\texttt{i}} + \alpha_{\texttt{j}} + \lambda_{\texttt{s}} + \gamma_{\texttt{c}} + \delta_{\texttt{o}} + \epsilon_{\texttt{ijsco}}$$

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where:

- ► FNI_{ijsco}: Foreign Name Index of child i in family j, born in state s, living in county c, and has birth order o
- ▶ PostDow_i: 1 if born in or after 1915, 0 otherwise
- Fixed effects: α_j : household (or mother), λ_s : state of birth, γ_c : county of residence δ_o : birth order
- Standard errors clustered at the household level

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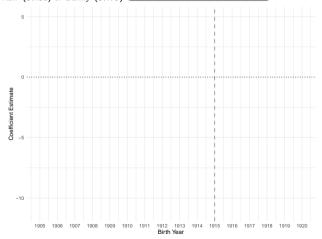
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- Standard errors clustered at the household level
- ► Sample: all men born in the US to an Arab father, who live in the same household as their father and at least one male sibling, and who were 15 years old or younger at census time
- ▶ 1920 census: to abstract from bias that (much) older siblings in the same household could mean a lower assimilation profile of this family ▶ Co-habitation ▶ Co-habitation: women

Event Study

After Dow, Arab children received less foreign/Arab names, even within the same family

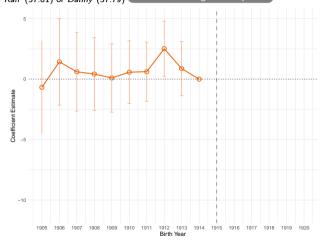
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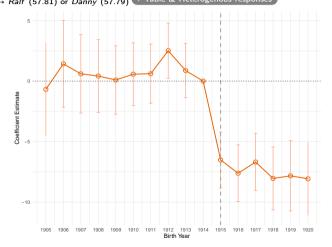
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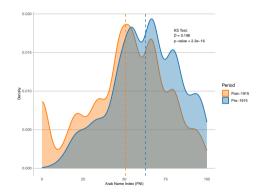


Stronger effects for US-born women to Arab fathers

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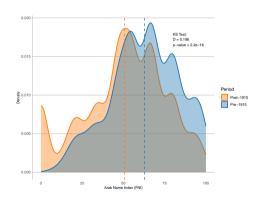
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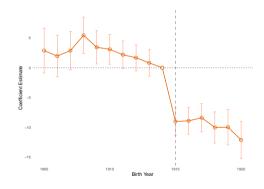


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Across Groups

Similar pattern when comparing across different control groups

Cohort Diff-in Diff:

$$\begin{aligned} \mathsf{FNI}_{\mathsf{insc}} &= \alpha + \beta_1 \mathsf{Arab}_{\mathsf{i}} + \beta_2 \mathsf{PostDow}_{\mathsf{i}} \\ &+ \beta_3 (\mathsf{Arab}_{\mathsf{i}} \times \mathsf{PostDow}_{\mathsf{i}}) + \gamma_n \\ &+ \delta_c + \phi_s + \varepsilon_{\mathsf{insc}} \end{aligned}$$

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- Poles: generally perceived as white → clear contrast (preferred specification)
- Other minority immigrant groups with varying levels of legal ambiguity
- Figure's control group: US born men to Polish fathers



► Table: Arabs vs Poles ➤ Other Minorities Results

- ► Decisions not fully under the control of the individual
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- Residential choices:
 - ► Enumeration occurring door-to-door until 1960 → infer neighbours
 - ► At the household head level to avoid double counting
 - = 1 if Arab/Pole (immigrant) head of the household had at least one native white neighbour of native parentage

Mixed Results

Pre-1920 intermarriage rate: 5%

Table: Intermarriage and Residential Integration

	Intermarriage	Residential Integration
	(1)	(2)
Arab	2.504***	1.471***
	(0.306)	(0.277)
Post-Dow \times Arab	3.017***	-0.728*
	(0.339)	(0.295)
Observations	939,481	975,843
Adj. R ²	0.119	0.053
Individual controls	Yes	Yes
FE: County-Year	Yes	Yes
FE: State-Year	ear Yes Yes	
FE: County	Yes	Yes

→ Shares: Arab men and women

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16/17

• We know from the work of Abramitzky and Boustan that immigrants assimilate \rightarrow quantify the differential rate of assimilation due to Dow v US



Appendix

Within Family: results

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From \approx Basel \rightarrow Ralf (57.81) or Danny (57.79)

Dep Var: Foreign Name Index (Pre-Treatment Mean = 65.66)					
	(1)	(2)	(3)	(4)	(5)
Post-Dow	-8.048*** (0.3238)	-8.570*** (0.5997)	-8.396*** (0.3775)	-7.815*** (0.9319)	-7.852*** (0.7434)
Linear trend State of Birth Household ID Birth Order County Mother ID		X	Х	X X X	X X X
Observations R ²	22,806 0.0264	22,806 0.0264	16,464 0.0373	16,464 0.4920	16,464 0.5019

Signif. Codes: ***: 0.01, **: 0.05, *: 0.1

■ Back

▶ Heterogenous responses: Regression

► Father's literacy

Father's occupation score

► Father's years in the US

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 - ▶ Dow v. U.S. (1915) Arabs classified as white

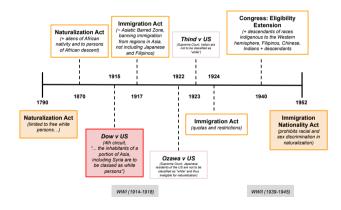
How did Groups Gain Whiteness?

Group	Initially White?	Path to Whiteness
Irish	No	Political power, distancing from Black Americans (Roediger, 1991)
Italians	No	Cultural assimilation, socioeconomic mobility, distancing from other i
Jews	No	Economic mobility, post-WWII integration, suburbanization (Brodkin, 19
Mexicans	Mixed	Legal ambiguity, partial inclusion (Foley, 1999)
Asians	No	Explicit court rejection (Ngai, 2004)
Arabs	No	Legal victory in Dow v. U.S. (Gualtieri, 2009)

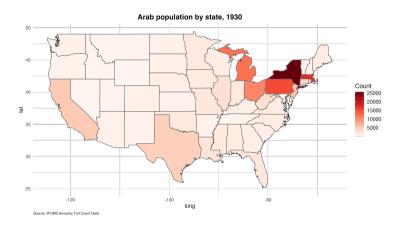
4/47

Timeline of Naturalization and Immigration Laws

∢ Back

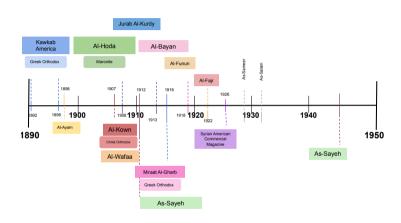


Arab population by state





Arab and White



Map: Syrian American Businesses (1908-1909)



◆ Back

NYC Arab-American Businesses



New Names

	New Name		P(Name is American)	
	(1)	(2)	(3)	(4)
Post-Dow	4.406*** (0.300)	4.551*** (0.364)	-3.460*** (0.428)	-3.142*** (0.543)
Observations R ²	42,081 0.016	42,081 0.449	42,081 0.023	42,081 0.453
Linear trend State of Birth County Mother ID Birth Order	×	× × × ×	X X	X X X X

⁺ p < 0.1, * p < 0.05, ** p < 0.01, *** p < 0.001

Standard errors in parentheses. Clustered at county level in (2) and (4).

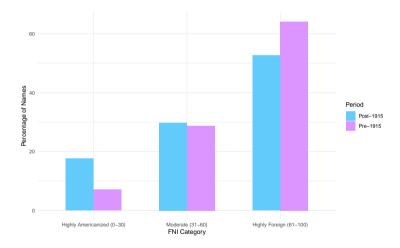
Top Names

Table: Top 10 Names That Became More Common Post-Treatment

First Name	Count Pre	FNI	Count Post	Freq Change
GEORGE	1099	77.14	3346	2247
JOSEPH	676	70.33	2336	1660
JOHN	620	47.67	2073	1453
EDWARD	519	67.40	1533	1014
ALBERT	282	67.10	1129	847
JAMES	395	51.81	1067	672
CHARLES	295	53.32	917	622
WILLIAM	342	40.66	964	622
ROBERT	64	17.05	603	539
LOUIS	222	70.40	748	526

◆ Back

Top Names





Arab and White

10/47

Cohort Difference in Differences

Using the 1930 census

$$\mathsf{FNI}_{\mathfrak{i}\mathfrak{n}} = \alpha + \beta_1\mathsf{Arab}_{\mathfrak{i}} + \beta_2\mathsf{PostDow}_{\mathfrak{i}} + \beta_3(\mathsf{Arab}_{\mathfrak{i}} \times \mathsf{PostDow}_{\mathfrak{i}\mathfrak{t}}) + \gamma_{\mathfrak{n}} + \delta_c + \varphi_s + \varepsilon_{\mathfrak{i}\mathfrak{t}}$$

where:

- ▶ i: (male) individuals, n: nationalities, c: birth cohorts (1905-1930), s: state of birth
- Arabi indicator equal to 1 if the US-born child has an Arab father
- PostDow; indicator equal to 1 if individual i was born on or after 1915, and 0 otherwise
- β₃: captures the differential effect of the Dow ruling on second-generation Arabs relative to the control group
- Fixed effects: δ_c (birth year), ϕ_s (state of birth), γ_n (nationality, for some specifications)
- Heteroskedasticity robust standard errors
- ► FNI_{in}: Pre-defined FNI Back

DiD results: Arabs vs Poles

Dependent Variable: Foreign Name Index (Mean: 65.66)								
	(1)	(2)	(3)	(4)	(5)			
Arab	0.750***	0.779***	0.771***	2.465***	2.894***			
	(0.215)	(0.215)	(0.215)	(0.229)	(0.264)			
Post-Dow x Arab	-7.314***	-7.337***	-7.322***	-7.545***	-6.934***			
	(0.329)	(0.329)	(0.329)	(0.330)	(0.391)			
Observations	460,503	460,503	460,503	460,503	460,498			
Adj. R ²	0.002	0.002	0.002	0.008	0.020			
Linear Trend		X						
Birth Year			X	X	X			
State of Birth				X	X			
County-Year					X			

Notes: Standard errors in parentheses are heteroskedasticity-robust. Significance levels: *** p < 0.01, ** p < 0.05, * p < 0.1. Dependent variable: Foreign Name Index (FNI).

∢ Back

FNI results: different minority groups

Same overall pattern, post-Dow, Arabs named their children less foreign/Arab names

Col 1, control group: US-born children to a Chinese/Japanese/Filipino father. Col 2, same + Mexican, Cuban, Puerto Ricans, Indians, Cubans and Greek. Col 3, only Greeks.

	(1)	(2)	(3)
Arab	5.826***	-0.106	-6.301***
	(0.613)	(0.257)	(0.355)
Post-Dow \times Arab	-0.013	-6.034***	-2.506***
	(0.568)	(0.279)	(0.393)
Observations	79,927	355,468	111,184
Adj. R-squared	0.0376	0.0840	0.0349
FE: Birth year	Yes	Yes	Yes
FE: State of birth	Yes	Yes	Yes

Heteroscedasticity-robust standard errors in parentheses.

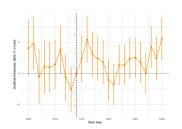




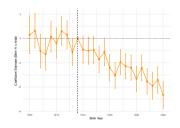


Event studies: other minorities

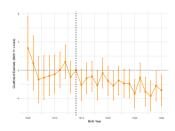
Some show pre-trends, mixed results



(a) Control: Asian father



(b) Control: Asian + other minorities' fathers



(c) Control: Greek father

14/47

◆ Back

Table: Effects of Dow Ruling on Foreign Name Index (FNI)

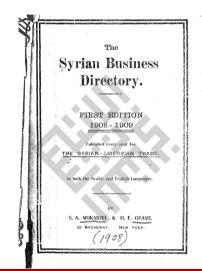
		FNI	
	(1)	(2)	(3)
Arab	3.503***	-1.763***	-6.421***
	(0.982)	(0.390)	(0.464)
Post-Dow x Arab	0.744	-3.865***	-1.988***
	(1.093)	(0.435)	(0.513)
Observations	79,927	355,468	111,184
Adj. R ²	0.0370	0.1257	0.0551
FE: Birth Year	Yes	Yes	Yes
FE: State of Birth	Yes	Yes	Yes
FE: County-Year	Yes	Yes	Yes

Syrian Business Directory (1908-1909)

Digitized and geo-located

Overview:

- Voluntary registry of Arab-American business owners
- 3000+ entries with info on: names of owners in Arabic and the Americanized English names, business type, industry, and address, the address where they came from in the Middle East Map NYC



 Americanization indices better capture conformity to American naming norms



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- Beyond the use of Naturalization Records
 (Biavaschi, 2017; Fouka, 2019) → bilingual record
 Syrian Business Directory



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 Syrian Business Directory
- Mapping of names is the basis for potential and common Name Americanization Paths



17/47



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 (Biavaschi, 2017; Fouka, 2019) → bilingual record
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- After processing, a dictionary of: Arabic name - transliteration - English name





- Americanization indices better capture conformity to American naming norms
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 Syrian Business Directory
- Mapping of names is the basis for potential and common Name Americanization Paths
- After processing, a dictionary of: Arabic name - transliteration - English name
- Composite index: normalized Levenshtein distance & phonetic distance, weighting deviations from Arabic specific sounds more

```
e.g. "kh", "gh", "h", "dh", "th"
```



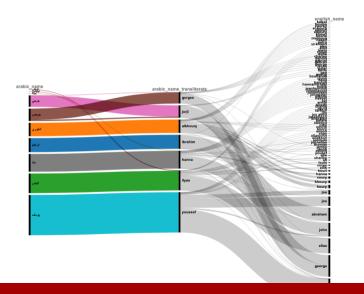


War of the same of			,	 		
Kairallah Abboud,	10	Washington	المتين		عبود .	ا خيرالله
Kalil Abboud,					عبود	
	6	Washington	السام		عبو د	معسيل .

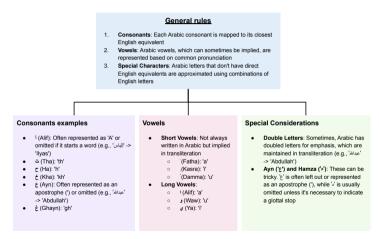
17/47

→ Sankey diagram

∢ Back

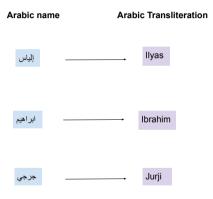


Transliteration methodology



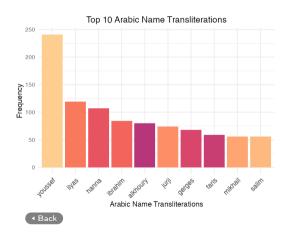
20/47

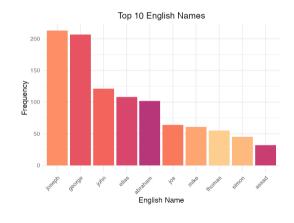
Transliteration example



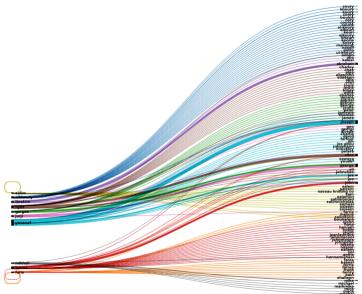


Top names



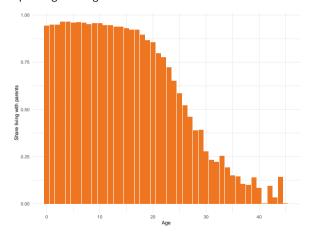






Co-habitation

Co-habitation by age was quite high among Arab men



∢ Back

Donia Kamel Arab and White

23/47

24/47

Co-habitation: women

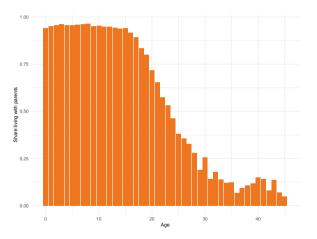
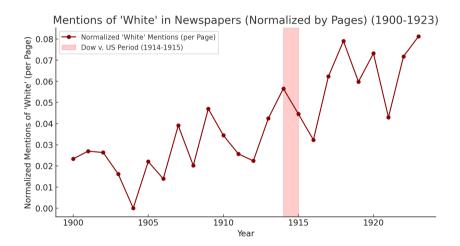




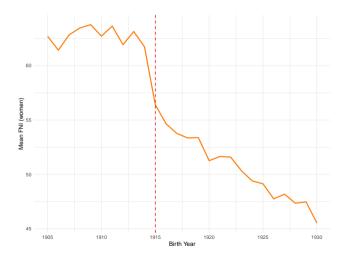
Table: Number of US-born Males by Father's Ethnicity

Ethnicity	Pre-Dow Count	Post-Dow Count
Arab	12,288	41,291
Polish	176,043	408,094
Japanese	5,080	29,543
Chinese	1,861	4,952
Filipino	126	1,625
Indian	341	927
Mexican	39,252	189,572
Puerto Rican	554	5,398
Cuban	1,810	3,372
Greek	7,229	55,489

Keyword search in Arabic-American Newspapers



Mean FNI for women



Donia Kamel

27/47

28/47

Within family: female

Greater effects for women

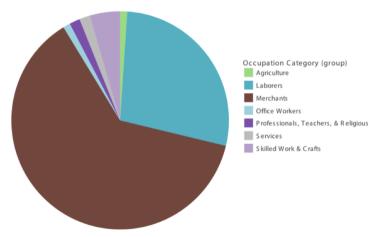
From \approx *Nellie* \rightarrow or *Lucie*

Dep Var: Foreign Name Index (Mean = 64.02)									
	(1)	(2)	(3)	(4)	(5)				
Post-Dow	-10.97*** (0.3782)	-8.518*** (0.6544)	-11.17*** (0.3804)	-9.648*** (0.7463)	-9.547*** (0.7542)				
Linear trend State of Birth Household ID Birth Order County Mother ID		Х	×	X X X	X X X				
Observations R ²	15,861 0.05089	15,861 0.05203	15,861 0.05950	15,861 0.48149	15,861 0.49144				

Signif. Codes: ***: 0.01, **: 0.05, *: 0.1

Occupations: 1900

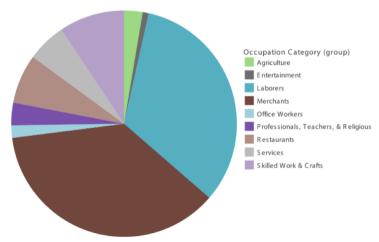
Source: Khayrallah Center for Lebanese Studies



◆ Back: Data

Occupations: 1940

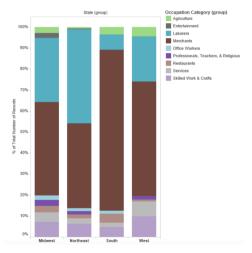
Source: Khayrallah Center for Lebanese Studies



31/47

Occupations by region

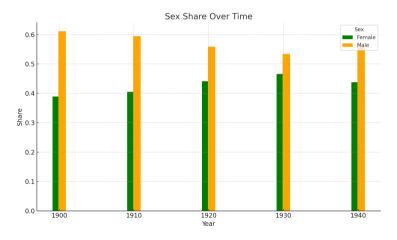
Source: Khayrallah Center for Lebanese Studies



◀ Back: Data

32/47

Shares of Arab Men and Women





Regression: heterogeneity

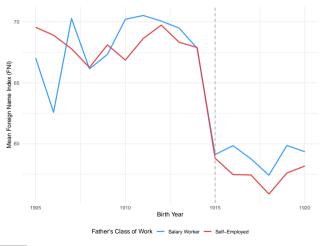
Table: Regression Results by Father Characteristics

Dependent Variable:	FNI									
Model:	Occ Score		Share of diaspora in state		Father's years in the US		Father's literacy		Father's class of work	
	Below Median	Above Median	Below Median	Above Median	Below Median	Above Median	Illiterate	Literate	Employed	Self-employed
Post-Dow	-9.67***	-9.25***	-11.6***	-7.67***	-9.53***	-9.17***	-7.45***	-9.64***	-9.08***	-10.0***
	(1.28)	(1.22)	(1.23)	(0.921)	(1.35)	(1.18)	(1.48)	(0.901)	(1.26)	(1.23)
Fixed Effects										
Household ID	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
State of Birth	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Birth Order	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
County	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Observations	6,066	6,695	7,049	9,886	7,420	8,726	4,168	11,978	5,928	6,833
R ²	0.49609	0.48929	0.48480	0.48785	0.59795	0.57797	0.46262	0.49911	0.50768	0.47859
Median	2	25	0.1	.3%	1	.1		-		-

Clustered (household) standard-errors in parentheses Signif. Codes: ***: 0.01. **: 0.05. *: 0.1



Father's class of work



→ Labor Force Status (Back

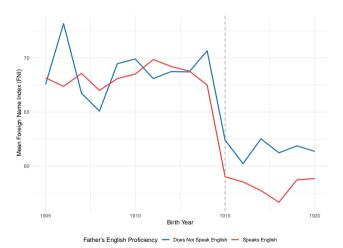
35/47

Father's literacy





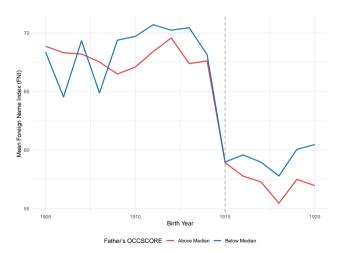
Father speaking English





36/47

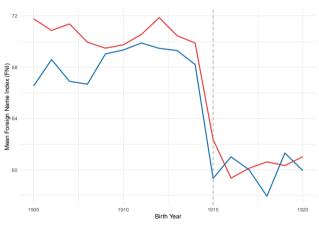
Father's occupation score



◆ Back Arab and White

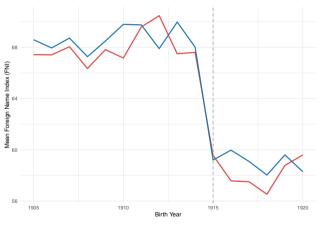
Donia Kamel

Father's FNI



Father's FNI Group — Above Median — Below Median

Father's years in the US



Father's Years in U.S. - Above Median - Below Median

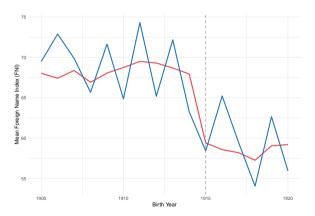
Donia Kamel

Share of the Arab diaspora in state (1920)



Father's labour force status

Only 2.5% unemployed in 1920, 6.28% missing info, and 91% employed



Father's Labor Force Status - In Labor Force - Not in Labor Force

Arab and White

42/47

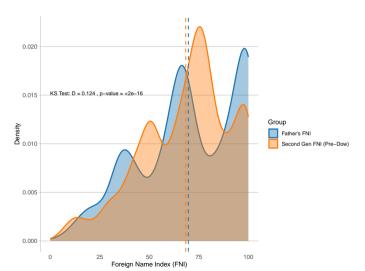
Share of the Arab diaspora in state of birth (1910)



Arab Share in State (1910) — Above Median — Below Median



Father's FNI distribution



Historical Arab-American Newspapers

- Scraped from the Khayrallah Center for Lebanese Diaspora Studies + manual collection
- Created by the Arab diaspora, printed in the US



▶ Timeline



Historical Arab-American Newspapers

- Scraped from the Khayrallah Center for Lebanese Diaspora Studies + manual collection
- Created by the Arab diaspora, printed in the US
- 16 newspapers, 6.930 editions, 54.774 pages (ongoing collection)
- OCR-processed, layout detected, articles extracted



▶ Timeline



Historical Arab-American Newspapers

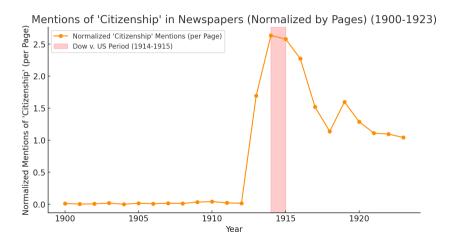
- Scraped from the Khayrallah Center for Lebanese Diaspora Studies + manual collection
- Created by the Arab diaspora, printed in the US
- 16 newspapers, 6,930 editions, 54,774 pages (ongoing collection)
- OCR-processed, layout detected, articles extracted
- Next Steps: Topic modeling, sentiment analysis, identity duality, assimilation + expand collection



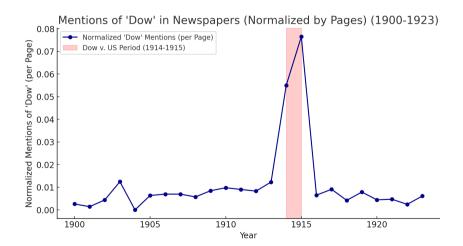
→ Timeline



Salience of the case 1/2



Salience of the case 2/2



Historical American Newspapers

► American Stories dataset (1780–1960)





Historical American Newspapers

- ► American Stories dataset (1780–1960)
- ► 20M newspaper scans from Chronicling America (Library of Congress)
- 438M structured articles: headlines, bylines, captions, dates, pages
- ► Coverage spans all **50 states**, with content concentrated pre-1920

OCTORER 14, 1895. THE ILLUSTRATED AMERICAN A PLAGUE OF MEN.



Historical American Newspapers

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- ► 20M newspaper scans from Chronicling America (Library of Congress)
- ► **438M** structured articles: headlines, bylines, captions, dates, pages
- ► Coverage spans all **50 states**, with content concentrated pre-1920
- Next Steps: Text analysis of media sentiment toward Arabs & immigrants

◆ Back

