Coercive Assimilation Policy and Ethnic Identification Across Generations Evidence from American Indian Boarding Schools

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States have often sought to reshape the culture and identities of their subjects



Source: Chronicling America: Historic American Newspapers.

The most coercive assimilation effort in U.S. history?

"A great general has said that the only good Indian is a dead one... I agree with the sentiment, but only in this: that all the Indian there is in the race should be dead. Kill the Indian in him, and save the man."

- R. H. Pratt, Annual Conference of Charities and Correction, 1892

The policy: removing Native American children from communities (reservations) to distant 'off-reservation' boarding schools.

The off-reservation school system

- Nation-wide in scope.
- Children removed for long periods.
- Western customs promoted over tribal ones.



Source: Carlisle Indian School Digital Resource Center.

Q: Did off-reservation schools lead to the cultural assimilation of Native Americans?

Data

- Match Native Americans in historical census to reservations.
- Track off-reservation school recruitment patterns.
- Link individuals across historical census years.

Empirics

• Identification: staggered recruitment patterns and variation in cohort exposure based on schooling ages.

Takeaway

- Substantial assimilation in first generation.
- Reversal of effects in second generation.
 - \rightarrow community- and individual-level resistance.

Related literature

• Indigenous boarding schools: Gregg (2018); Feir (2016); Jones (2022).

Contributions:

- ° First analysis of schools in their historical context.
- New measures of assimilation and cultural change.
- First causal estimates of intergenerational effects.
- Immigration and assimilation in the U.S.: Abramitzky et al. (2020); Fouka et al. (2021); Fouka (2019).

Contributions:

- ° New measure capturing hard-to-observe aspects of assimilation.
- (Changes in) Racial identification in the U.S.: Dahis et al. (2020). Contributions:
 - ° Causal evidence on role of policy on racial classification.

Education prior to the off-reservation system

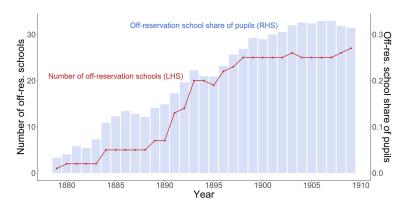
- Prior to 1879, two forms of schools in operation:
 - Day schools.
 - Reservation boarding schools.
- Both types of schools on or near reservations.
- Found to be ineffective in their goals of (western) education and cultural assimilation.



Source: Library of Congress.

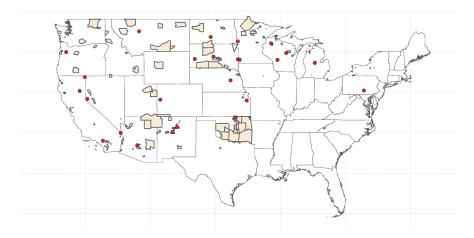
Rise of off-reservation schools

- First school opened in 1879 in Carlisle, PA.
- 27 schools in operation at peak of the programme.



Source: Own calculations using data from Annual Reports of the Commissioner of Indian Affairs

Distribution of off-reservation schools, 1910



Note: Red points represent off-reservation schools, and polygons represent reservation boundaries as at 1889.

Education at off-reservation versus reservation (boarding) schools

- Both types of schools offered 'industrial education'.
 - Instruction in trades (carpentry) and farming.
- Academic content generally of similar level.
 - Standardised 'course of study' from 1890.
 - Off-reservation schools only offered more advanced grades from 1910s onwards.
- Proxies of quality (Office of Indian Affairs, 1900).
 - Cost per pupils: \$148 (off-res) versus \$151 (res).
 - Pupils per employees: 10 (off-res) versus 6 (res).

Not a more advanced education, nor with better peers

From the Indian Office's Annual Report, 1890:

"These institutions [off-reservation schools] are not universities, nor colleges, nor academies nor high schools."

"In the best of them the work done is not above that of an ordinary grammar school, while in most it is of the primary or intermediate grade."

"The pupils come to them for the most part ignorant of the English language, unaccustomed to study..."

Differences between off-reservation and reservation schools

- 1. Located outside Native American communities.
 - Family visits rare, if at all.
- 2. Students remained in schools for 3 5 years.
 - Typically did not return home for summers, as in reservation boarding schools.
- 3. Schools were (deliberately) intertribal.
 - Students forced to use English.

These features likely made off-reservation schools more effective in their cultural assimilation goals.

Racial classification in historical censuses

- I use changes in racial classification between 1910 and later years as a measure of assimilation.
- Over this period, race inferred by census enumerators.
 - Reported race reflects community perceptions, not own identification.
- Coverage of Native Americans varied across years.
 - 1910: reliable coverage.
 - 1920 to 1940: many Native Americans counted as 'White'.

Data sources

Archival sources

• Annual Reports of the Indian Office, 1879 - 1900.

(Off-reservation school reports, tribe-to-reservation correspondences)

Attendance data

• Complete records for five off-reservation schools.

Historical censuses

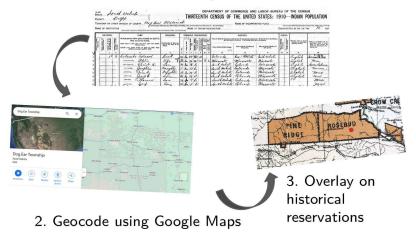
- 1910 to 1940 full count censuses (IPUMS). (Individual-level outcomes and demographic information)
- Cross-section of local 'Indian censuses' circa 1910. (Individual-level information on tribes)

Census Tree record links

• Newly-published database of links between historical censuses.

Matching Native Americans to reservations

1. Start with location reported in 1910 census



• I match around 75 per cent of Native Americans to a unique reservation.

Determining reservation treatment years

1. Identify tribes / reservations in school reports or attendance records

INDUSTRIAL SCHOOL FOR INDIAN YOUTH, Genoa, Platte County, Nebraska, August 20, 1884. SIR : I have the honor to report the opening of this school on the 20th of February, 184, with 71 pupils from the Rosebud Agency, Dakota. On the 24th of the same month 18 arrived from the Yankton agency. Dakota. March 1, 27; March 20, 13; April 17, 5, and July 17, 3, all from the Rosebud Agency, Joine dhe sekool; making an aggregate of 136. One not accepted, and sent back; 2 have since died; 1 removed to another school; 3 have run away, and not yet brought back, leaving 100. So had STATEMENT OF FACTS WITH REFERENCE TO WORK ACCOMPLISH and 40 girls attending school

School filled to one more than the maximum allowed, viz, 76; of th are boys and 28 are girls, divided as follows: Puyallups, 20; Warm Sprin 13; Pintes, 1; Pitt Rivers, 2; Spokanes, 19; Chehalis, 4; Nesquallys, 1 Oyster Bays, 2.

and pe Blue Leich

Scholale showing names of Indian reservations in the United States, agencies, tribe accupying or belonging to the reservation, de.-Continued

Name of reservation.	Agency.	Name of tribe occupying reservation.	Ares in acres.	Secare miles.(s)	Date of treaty, law, or other authority establishing reserve.
UTAR TERRITORY.					
Uintsh Valley				3,186	Executive order, October 5, 1961; act of Congress at
		Tabequache Ute	1, 903, 440	3,011	proved May 5, 1864, vol. 11, p. 62. Essentive order, January 5, 1882.
Total			3, 972, 680	6, 217	
WASHINGTON TERMS- TORT.			And the subscripts	******	
Chehalls			e4, 225	4	Order of the Secretary of the Interior, July 8, 1864.
Columbia		Chief Moses and his peeple	2, 243, 043	2, 505	
Dubville		Cour d'Alene, Colville, Kalispelm, Kinikane, Lake, Methan, Nepoelium, Pend d'Oraille, San Poel, and Scokane.	2, 808, 600	4, 375	4, 1984, 23 Stat., p. 79.) Excentive orders, April 9, and July 2, 1872.
Lummi (Chah choo-sen)		Dwarnish, Etskurur, Lumani, Snohamish, Sukwarnish, and Swiwamish,	. #12, 312	292	Trenty of Point Effort, January 22, 1855, vol. 12, p. 027 Exceptive order, Nevember 22, 1875.
Makah	Quinaicit.	Kwillohizi and Makah	23, 044	36	Trenty of Neah Ray, January 31, 1855, vol. 12, p. 929 Executive orders, October 20, 1872, January 2 and Oc toder 31, 1873.
Muckleahoot Niequally	Nisquilly and	Mucklesheet, Niskwalli, Peyallup, Skwawk-	43, 397 44, 717	5 78	Eccentrics orders. Jammary 29, 1837, and April 9, 1874. Treaty of Medicine Creek, December 20, 1854, vol. 18, p 1127; Excentive order, Jammary 29, 1857.
Port Madison	Tulalip	Dunnish, Etakuvar, Lonnui, Sushamiah, Su- kwamiah, and Swiwamiah.	\$7,284	114	
Puyaluy	Skokamiah.	Macklesboot, Niskwalli, Parallap, Skwawk- smanish, Stallakoon, and five others.	+18, 012	28	srifer of the Sacretary of the Interior, October 21, 1860 Treaty of Medicine Creek, December 26, 1854, vol. 10, p 1132; Executive orders, January 20, 1853, and September 6, 1953.
Quinsiels	Neah Bay and	Hob, Kweet, Kwillshint, and Kwinainti	224,000	359	bur 6, 1970. Treation of Olympia, July 1, 1855, and Japuary 25, 1856

2. Match to reservations using schedules in Indian Office Annual Reports

I identify treatment years of 131 reservations or settlements.

Linking across datasets

Linking across census years

- Use off-the-shelf links from the Census Tree.
 - ° 20 30 per cent of individuals linked from 1910 to later years.
 - Reweighted by probability of linkage (Bailey et al., 2020).

Linking across other datasets

- Use algorithm proposed by Abramitzky et al. (2019).
 - ^o Identifies matches using name, year of birth, and state of birth.
 - ° 20 25 per cent of individuals linked across datasets.

Samples

First generation

- Household heads, male, aged 18 60 in 1910.
- Drop small reservations and those under 'Union Agency'.

1910: 10,500 individuals, 69 reservations *1920*: 2,500 individuals, 34 reservations

Second generation

- Male children from first gen. households linked to 1940 census.
- Household heads, aged 30 60 in 1940.
- Born *after* (father's) reservation was treated.

1940: 1,500 individuals, 20 reservations

Measuring exposure to off-reservation schools

- With newly-constructed datasets, I can observe:
 - An individual's year of birth.
 - Their reservation.
 - Year reservation was first 'treated' by an off-reservation school.
- Define age at exposure: age when reservation first treated.
 - For individual *i* from reservation *r* and birth cohort *c*:

$$age_at_exposure_i = year_treated_{r(i)} - birth_year_{c(i)}$$

- Older individuals past schooling age unlikely to be recruited.
- In the chapter, I show that the age of 20 was a de facto limit.

Specification, first generation

I estimate effects at the reservation-by-cohort level:

$$y_{r,c} = \sum_{j; j \neq 22} \alpha_j age_at_exposure_{j(r,c)} + \alpha_r + \alpha_c + X'_{r,c}\gamma + \varepsilon_{r,c}$$

Where:

- $y_{r,c}$ is mean outcome for individuals from reservation r, cohort c.
- age_at_exposure j(r,c) are event time indicators.
- α_r and α_c are reservation and cohort FEs.
- X_{r,c} are initial characteristics interacted with cohort FEs.

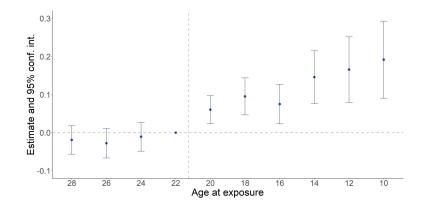
Specification, second generation (1940)

$$y_{r,c,c'} = \sum_{j; j \neq 24} \alpha_j age_at_exposure_{j(r,c)} + \alpha_r + \alpha_c + \alpha_{c'} + X'_{r,c}\gamma + \varepsilon_{r,c,c'}$$

Where:

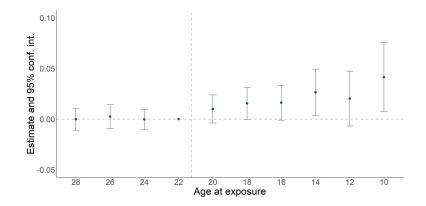
- $y_{r,c,c'}$ is mean outcome for children from cohort c' with father from reservation r and cohort c.
- *age_at_exposure*_{i(r,c)} are father's event time indicators.
- *α_c* are father's cohort FEs.
- *α_{c'}* are child's cohort FEs.

First gen. – Off-reservation schools improved English proficiency



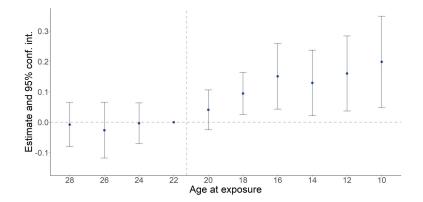
- Average effect = 0.122 (0.029)
- Dep. var. mean = 0.629

... increased rates of intermarriage with White Americans



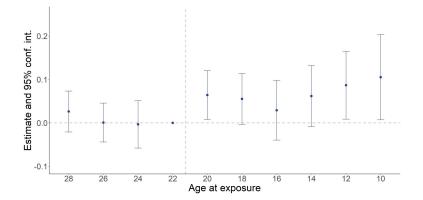
- Average effect = 0.022 (0.010)
- Dep. var. mean = 0.015

... led to 'western' name choices for children



- Average effect = 0.123 (0.042)
- Dep. var. mean = 0.528

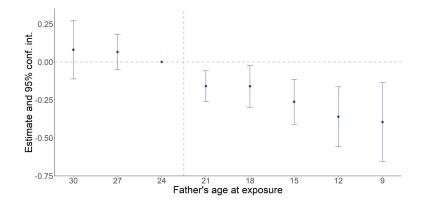
... increased prob. of being 'White' in 1920



Average effect = 0.093 (0.034) [0.006]

Dep. var. mean = 0.144

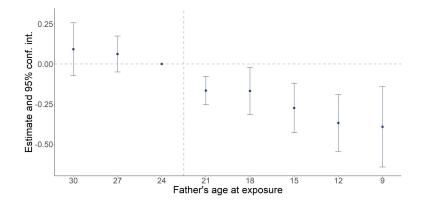
Second gen. - Less likely to intermarry



Average effect = -0.271 (0.094) [0.031]

Dep. var. mean = 0.383

... and less likely to be counted as 'White' in 1940



• Average effect = -0.298 (0.101) [0.021]

Dep. var. mean = 0.343

Community-level resistance

	Single tribe / band		Multiple tribe / bands		
	White	'White' in	White	'White' in	
	spouse	1940	spouse	1940	
	(1)	(2)	(3)	(4)	
Average effect	-0.284	-0.284	-0.041	0.020	
	(0.129)	(0.124)	(0.093)	(0.085)	
	[0.035]	[0.023]	[0.677]	[0.821]	
Mean dep. var	0.461	0.438	0.318	0.261	
R2	0.180	0.192	0.242	0.215	
No. reservations	9	9	12	12	
No. cohorts	16	16	16	16	
Obs.	730	824	772	836	

Individual-level resistance

	SAI member	In 1930 Indian census		
	(1)	(2)	(3)	
Panel (a), First gen.				
Attended = 1	0.012	0.233		
	(0.005)	(0.025)		
Panel (b), Second gen.				
Father attended = 1			0.108	
			(0.026)	
Year measured	1911	1930	1930	
Mean dep. var	0.001	0.174	0.211	
R2	0.022	0.148	0.180	
No. reservations	102	102	103	
No. cohorts	11	11	11	
Obs.	12,643	12,643	14,546	

Conclusion

- I study the effects of a highly-coercive attempt to assimilate Native Americans into western society.
- By studying the indigenous boarding schools in their historical context, I am able to highlight the nuanced effects of such policies across generations.
- Ultimately, off-reservation schools seem to have strengthened the identities they sought to erase.

Thanks!

If any comments / suggestions come to mind, please get in touch at: *christian.maruthiah@gmail.com*

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