## Name Method: tables for the manuscript

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In this document, I made some tables for our manuscript to illustrate our analysis process and results.

Table 1. Illustrative surnames and corresponding conditional probabilities

	Illustrative surnames*								
Country/Area of origin	HUANG	CHANG	KIM	SUZUKI	NGUYEN	INTHAVONG	PENAFLOR	SAMEER	PATAN
Afghanistan	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	17.74
Bangladesh, India, Pakistan, Sikkim, British India	0.09	0.24	0.31	0.00	0.02	0.00	0.01	52.13	33.87
Bhutan	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Brunei, Indonesia	0.13	0.23	0.02	0.03	0.14	0.00	0.01	0.00	0.00
Cambodia	0.07	0.37	0.74	0.03	0.32	0.00	0.01	0.00	0.00
Japan, Southern Ryukyu Islands	0.19	0.62	0.81	95.73	0.07	0.00	0.01	0.00	0.00
Korea, Democratic People's Republic of Korea, Republic of Korea	0.13	21.64	94.74	0.32	0.07	0.00	0.01	0.00	0.00
Laos	0.08	3.02	0.01	0.00	0.31	90.75	0.01	0.00	0.00
Malaysia	0.03 $0.12$	0.88	0.01	0.00	0.31 $0.17$	0.00	0.01	0.00	0.00
Maldives	0.12	0.00	0.00	0.00	0.17	0.00	0.01	0.00	0.00
Mongolia	$0.00 \\ 0.14$	$0.00 \\ 0.50$	$0.00 \\ 0.15$	$0.00 \\ 0.00$	$0.00 \\ 0.01$	$0.00 \\ 0.00$	0.01 0.01	$0.00 \\ 0.00$	$0.00 \\ 0.00$
Myanmar Nepal	0.14 $0.00$	0.00	0.10	0.00	0.01 $0.00$	0.00	0.01	0.00	0.00
Peoples Republic of China,	96.28	62.10	0.34	0.60	0.00 $0.25$	0.00	0.01	0.00	0.00
Hong Kong, Macau (Macao), Taiwan									
Philippines	0.32	0.56	0.10	0.33	0.41	0.91	69.13	0.00	0.00
Singapore	0.22	0.35	0.02	0.04	0.01	0.00	0.01	0.00	0.00
Sri Lanka	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Thailand	0.06	2.21	0.11	0.09	0.20	7.88	0.01	0.00	6.45
Vietnam, Democratic Republic of Vietnam, Republic of Vietnam	1.31	1.52	0.59	0.03	95.14	0.45	0.01	0.00	0.00
All the other countries and regions	0.86	5.75	2.02	2.79	2.88	0.00	30.65	47.87	41.94

<sup>\*</sup> The probabilities in each column do not add up to 1 because of rounding error.

Table 2. Predictive surnames and related record numbers

Country/Area of origin	Number of predictive surnames*	Number of US-born records with corresponding predictive surnames	Number of foreign-born records with corresponding predictive surnames
Afghanistan Bangladesh, India, Pakistan, Sikkim, British India	215	12,946	18,672
	6,738	1,281,803	2,506,632
Bhutan	58	4,628	22,019
Brunei, Indonesia	368	14,793	41,692
Cambodia	537	96,110	92,847
Japan, Southern Ryukyu Islands Korea, Democratic People's Republic of Korea, Republic of Korea	2,995 277	523,987 998,728	758,857 1,289,503
Laos	574	158,842	127,920
Malaysia	119	7,105	19,192
Maldives	0	0	0
Mongolia Myanmar Nepal Peoples Republic of China, Hong Kong, Macau (Macao), Taiwan Philippines	48	1,060	3,236
	187	19,991	71,161
	138	12,000	63,997
	572	1,078,677	2,813,805
Singapore Sri Lanka Thailand Vietnam, Democratic Republic of Vietnam, Republic of Vietnam	11	466	1,852
	115	10,020	15,979
	41	1,088	2,524
	257	594,284	1,221,744

<sup>\*</sup> The numbers do not add up to 22,621 because there are surnames that are equally predictive of more than one country/area.

Table 3. Validation result with ACS data

	Number of surnames present in both lists*	PPV (%)	Sensitivity (%)	Specificity (%)
Whole List	3170	77.41	87.02	97.99
Afghanistan	23	4.35	NA	NA
Bangladesh, India, Pakistan,	908	81.83	NA	NA
Sikkim, British India				
Bhutan	15	93.33	NA	NA
Brunei, Indonesia	21	61.90	NA	NA
Cambodia	96	69.79	NA	NA
Japan, Southern Ryukyu	467	88.44	NA	NA
Islands				
Korea, Democratic People's	97	72.16	NA	NA
Republic of Korea, Republic of				
Korea				
Laos	34	85.29	NA	NA
Malaysia	22	63.64	NA	NA
Maldives	0	NA	NA	NA
Mongolia	2	50.00	NA	NA
Myanmar	37	67.57	NA	NA
Nepal	18	94.44	NA	NA
Peoples Republic of China,	203	80.79	NA	NA
Hong Kong, Macau (Macao),				
Taiwan				
Philippines	1151	70.55	NA	NA
Singapore	3	66.67	NA	NA
Sri Lanka	8	62.50	NA	NA
Thailand	1	0.00	NA	NA
Vietnam, Democratic	72	93.06	NA	NA
Republic of Vietnam, Republic of Vietnam				

<sup>\*</sup> The numbers of surnames of countries/areas do not add up to 3,370 because there are surnames that are equally predictive of more than one country/area.

Table 4. Validation result of cross validation

	PPV (%)	Sensitivity (%)	Specificity (%)
Afghanistan	75.95	51.44	99.96
Bangladesh, India, Pakistan,	87.40	98.84	95.94
Sikkim, British India			
Bhutan	62.42	47.71	99.92
Brunei, Indonesia	82.72	68.26	99.93
Cambodia	75.96	62.79	99.78
Japan, Southern Ryukyu Islands	94.56	96.65	99.55
Korea, Democratic People's	80.52	93.51	97.17
Republic of Korea, Republic of			
Korea			
Laos	71.86	71.86	99.63
Malaysia	73.01	22.44	99.95
Maldives	33.33	1.16	100.00
Mongolia	97.00	93.01	100.00
Myanmar	72.89	66.73	99.81
Nepal	72.61	72.41	99.82
Peoples Republic of China,	87.96	93.62	95.39
Hong Kong, Macau (Macao),			
Taiwan			
Philippines	86.74	95.03	98.67
Singapore	65.65	5.18	99.99
Sri Lanka	79.63	75.10	99.97
Thailand	86.64	2.84	100.00
Vietnam, Democratic Republic	91.49	92.67	98.82
of Vietnam, Republic of			
Vietnam			