Household Income of Mexican Immigrants to the United States

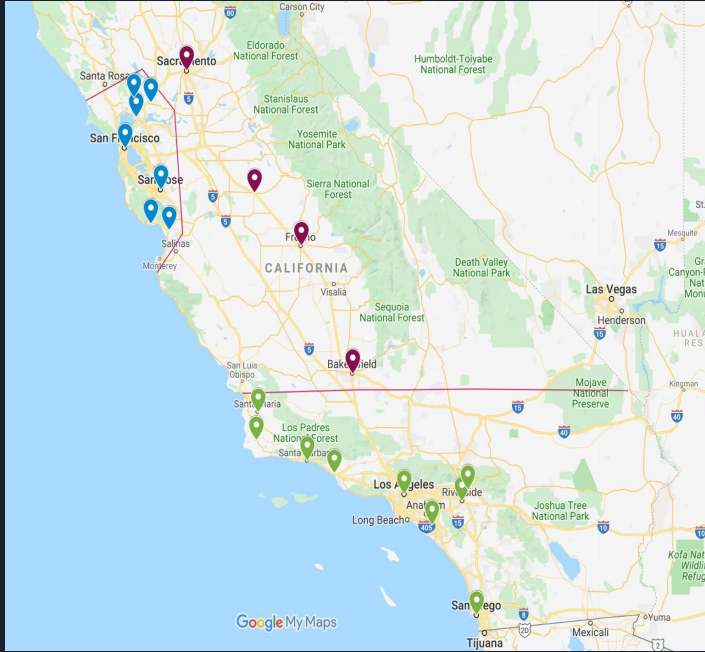By: Lilly Clark, Thea Dowrich, Rachel Helman, and Qintian Zhang

Immigration Policy in the United States

Methodology

- Multiple Linear Regression Model
- Extensive Data Cleaning
  - Immigrants to California
  - Income Reported in $USD

Consolidation of Cities and Mexican States by Region

Final Model

Significant Predictors

- Sex
- Age
- Years of education
- State of birth
- Occupation type
- Duration of migration
- Documentation type

Some interactions:

- age:edyrs
- usdurl:usdoc1

term	estimate	std.error	statistic	p.value	conf.low	conf.high
(Intercept)	629.277	297.065	2.118	0.035	45.530	1213.024
sexM	327.669	123.480	2.654	0.008	85.025	570.314
age	-22.666	11.074	-2.047	0.041	-44.426	-0.905
statebrnCentral Mexico	2482.855	868.543	2.859	0.004	776.129	4189.581
statebrnNorthern Mexico	-18.793	405.261	-0.046	0.963	-815.149	777.563
statebrnPacific Coast	157.480	95.472	1.649	0.100	-30.127	345.087
statebrnSouth East Mexico	-185.051	655.663	-0.282	0.778	-1473.458	1103.356
edyrs	42.483	11.337	3.747	0.000	20.205	64.762
occtypeManufacturing	100.196	62.074	1.614	0.107	-21.783	222.175
occtypeProfessional	208.005	105.018	1.981	0.048	1.641	414.369
occtypeService	138.882	66.983	2.073	0.039	7.258	270.506
usdurl	-1.914	1.340	-1.429	0.154	-4.548	0.719
usdoc1Legal resident	-244.490	265.390	-0.921	0.357	-765.993	277.013
usdoc1Temporary: Tourist/visitor	-431.169	275.379	-1.566	0.118	-972.302	109.964
usdoc1Undocumented	-406.538	253.226	-1.605	0.109	-904.139	91.064
age:edyrs	2.434	0.620	3.924	0.000	1.215	3.654
statebrnCentral Mexico:edyrs	-304.707	114.163	-2.669	0.008	-529.042	-80.372
statebrnNorthern Mexico:edyrs	14.954	44.830	0.334	0.739	-73.138	103.047
statebrnPacific Coast:edyrs	-38.703	13.223	-2.927	0.004	-64.688	-12.719
statebrnCentral Mexico:usdurl	10.870	6.326	1.718	0.086	-1.562	23.301
statebrnNorthern Mexico:usdurl	-5.348	1.852	-2.888	0.004	-8.987	-1.709
statebrnPacific Coast:usdurl	-0.856	0.587	-1.460	0.145	-2.009	0.296
statebrnSouth East Mexico:usdurl	-5.475	11.303	-0.484	0.628	-27.686	16.736
age:usdoc1Legal resident	-1.828	14.365	-0.127	0.899	-30.056	26.400
age:usdoc1Temporary: Tourist/visitor	16.945	15.000	1.130	0.259	-12.530	46.419
age:usdoc1Undocumented	17.680	11.604	1.524	0.128	-5.123	40.483
usdurl:usdoc1Legal resident	2.272	1.453	1.564	0.119	-0.583	5.127
usdurl:usdoc1Temporary: Tourist/visitor	1.920	1.498	1.282	0.201	-1.024	4.864
usdurl:usdoc1Undocumented	3.345	1.302	2.570	0.010	0.787	5.902

Final Model

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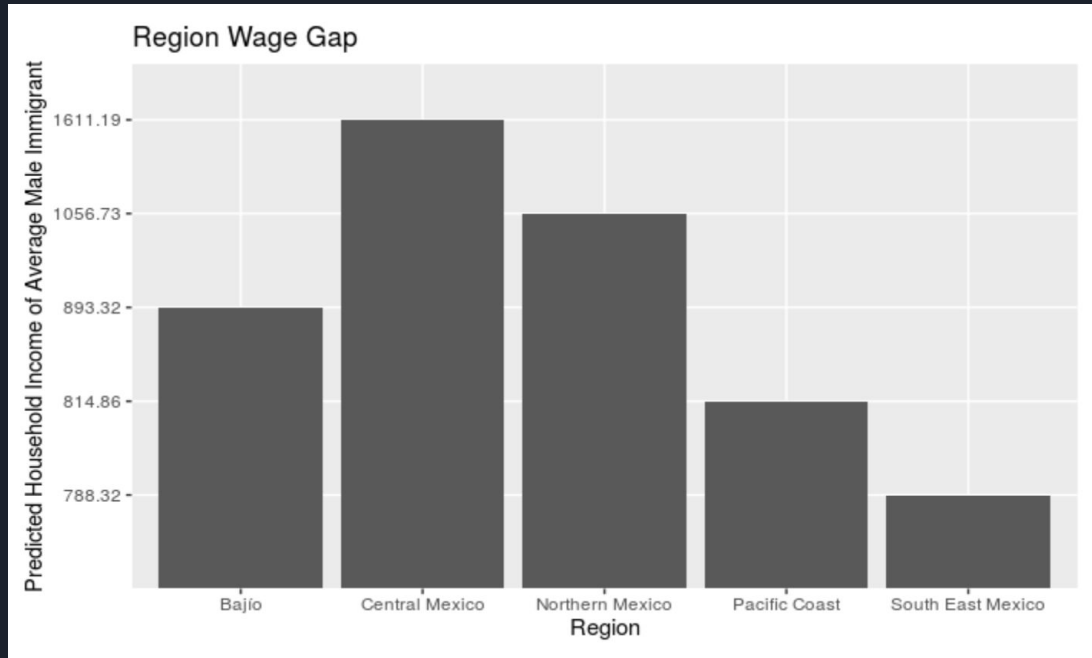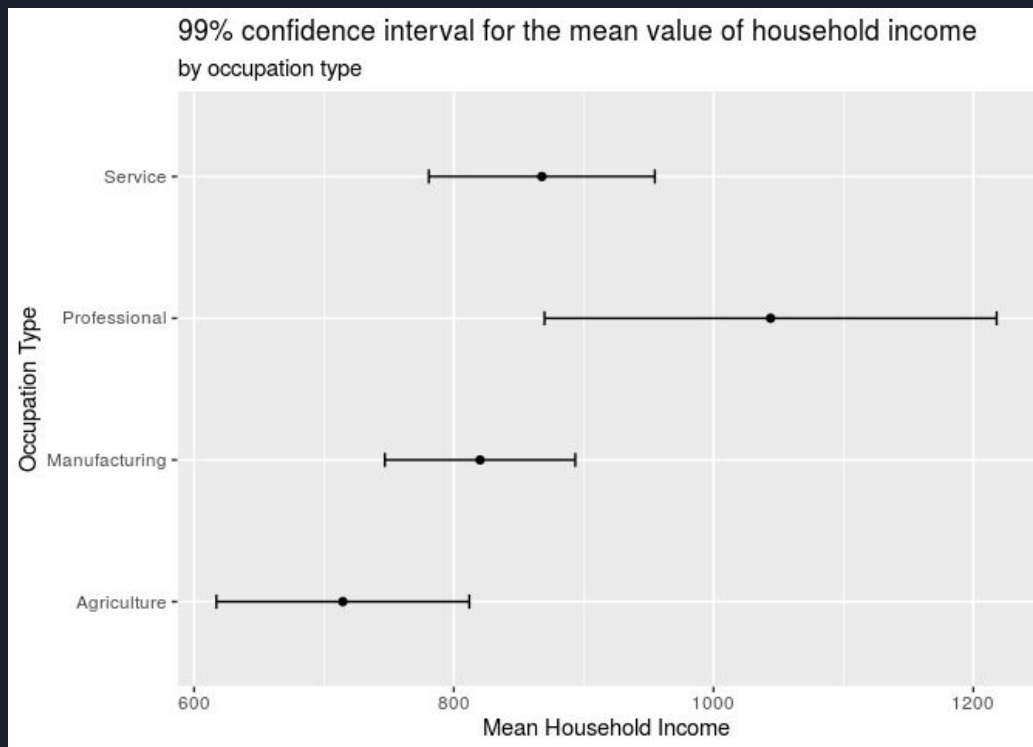| term	estimate	std.error	statistic	p.value	conf.low	conf.high
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Final Model

Conclusion

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Occupation Wage Gap

Conclusion

99% confidence interval for the mean value of household income by occupation type
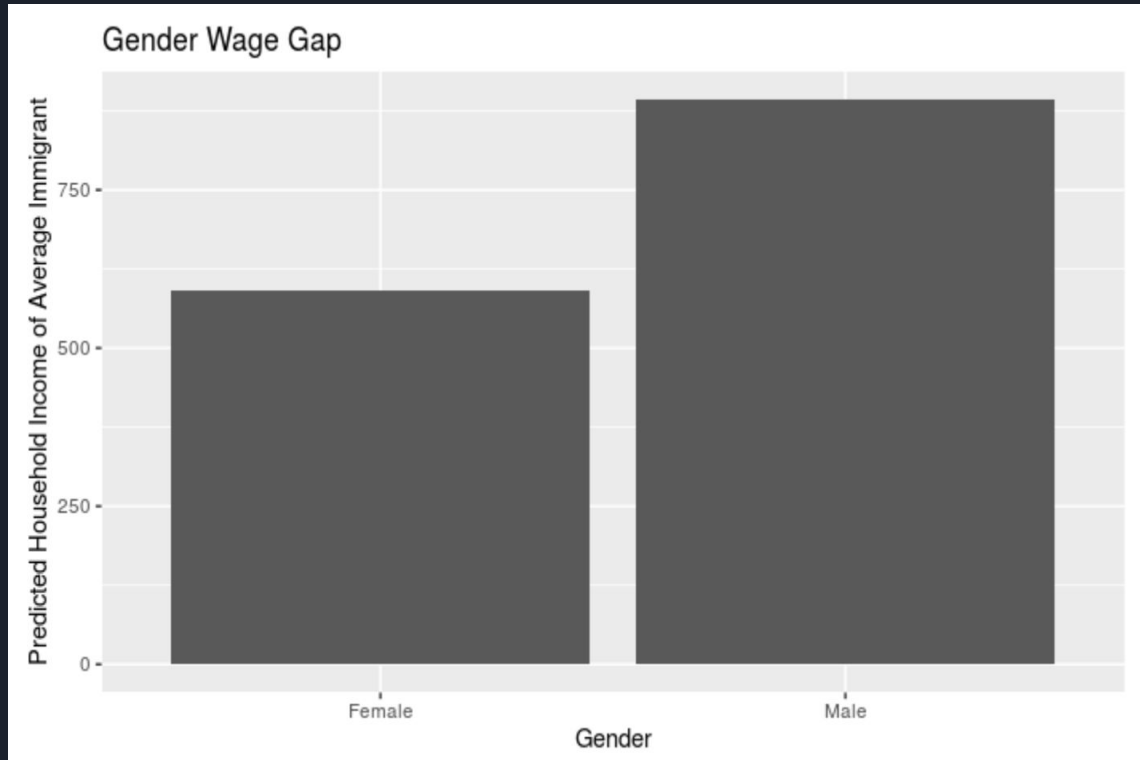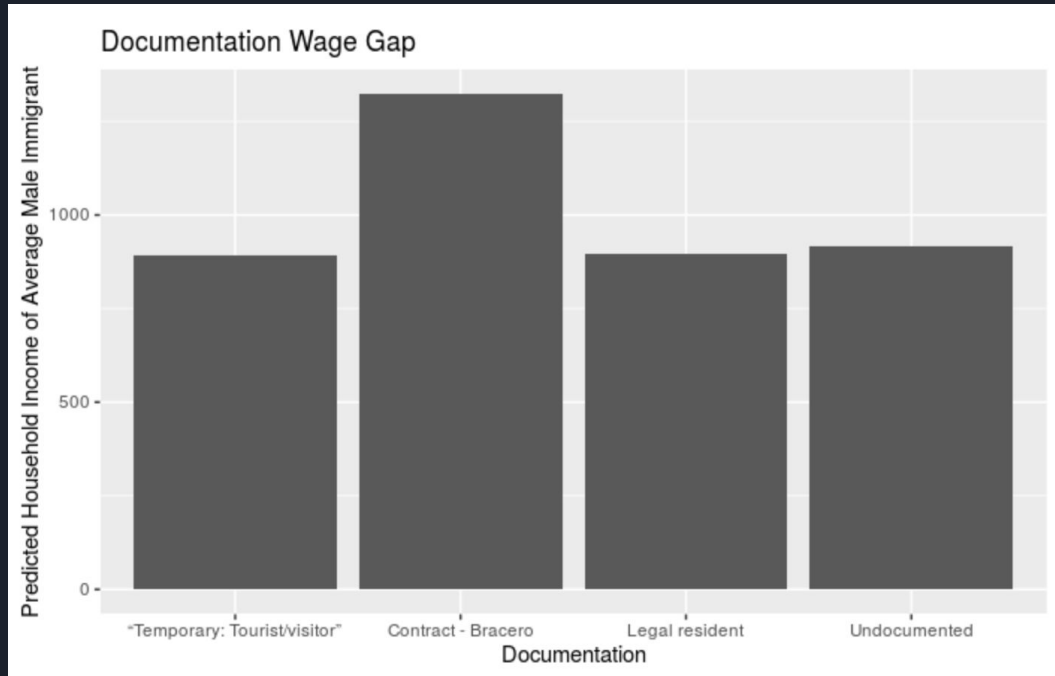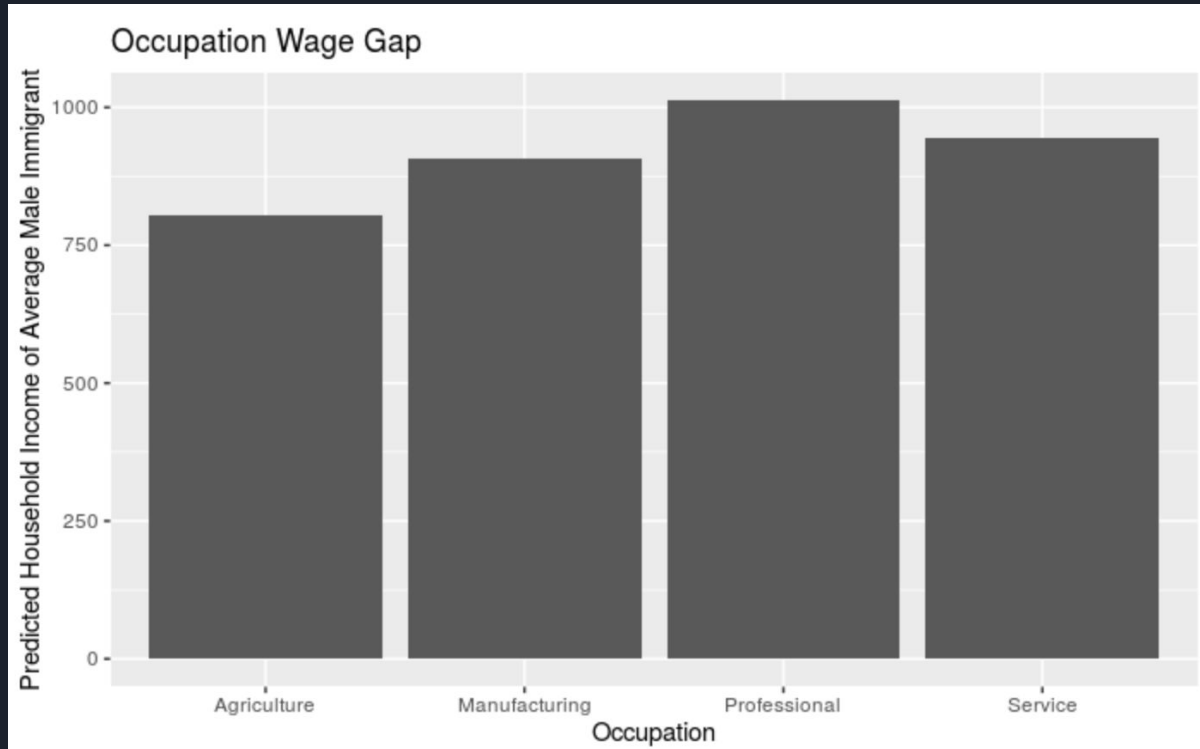
Going Forward

- Analyze entirety of dataset
- Investigate MEX$ → USD$
- Adjust for zero-inflation
- Weighing mechanism