

Overview

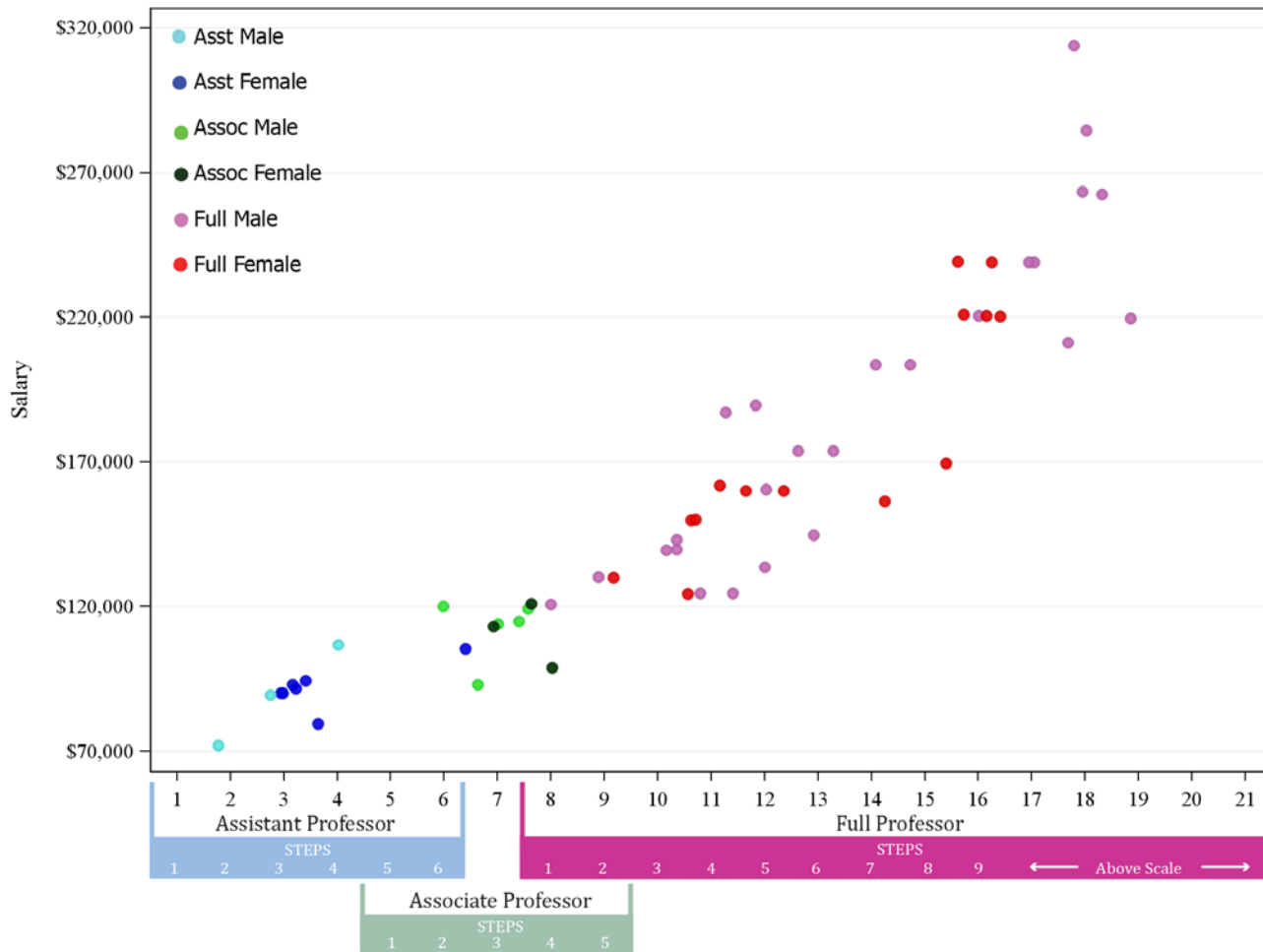
In 2015, a joint Administration-Academic Senate Committee redesigned our annual campus pay equity study of ladder rank faculty salaries. The analysis includes an examination of equity by gender and ethnicity for the campus overall and by academic school that go beyond the annual residual analysis conducted in the past (1997-2014). Analysis of salary data from October 2016 indicate no evidence of systemic disparity in pay associated with gender and/or ethnicity at the campus level when experience, discipline, and rank are included in the model.

Methodology (see campus level report)

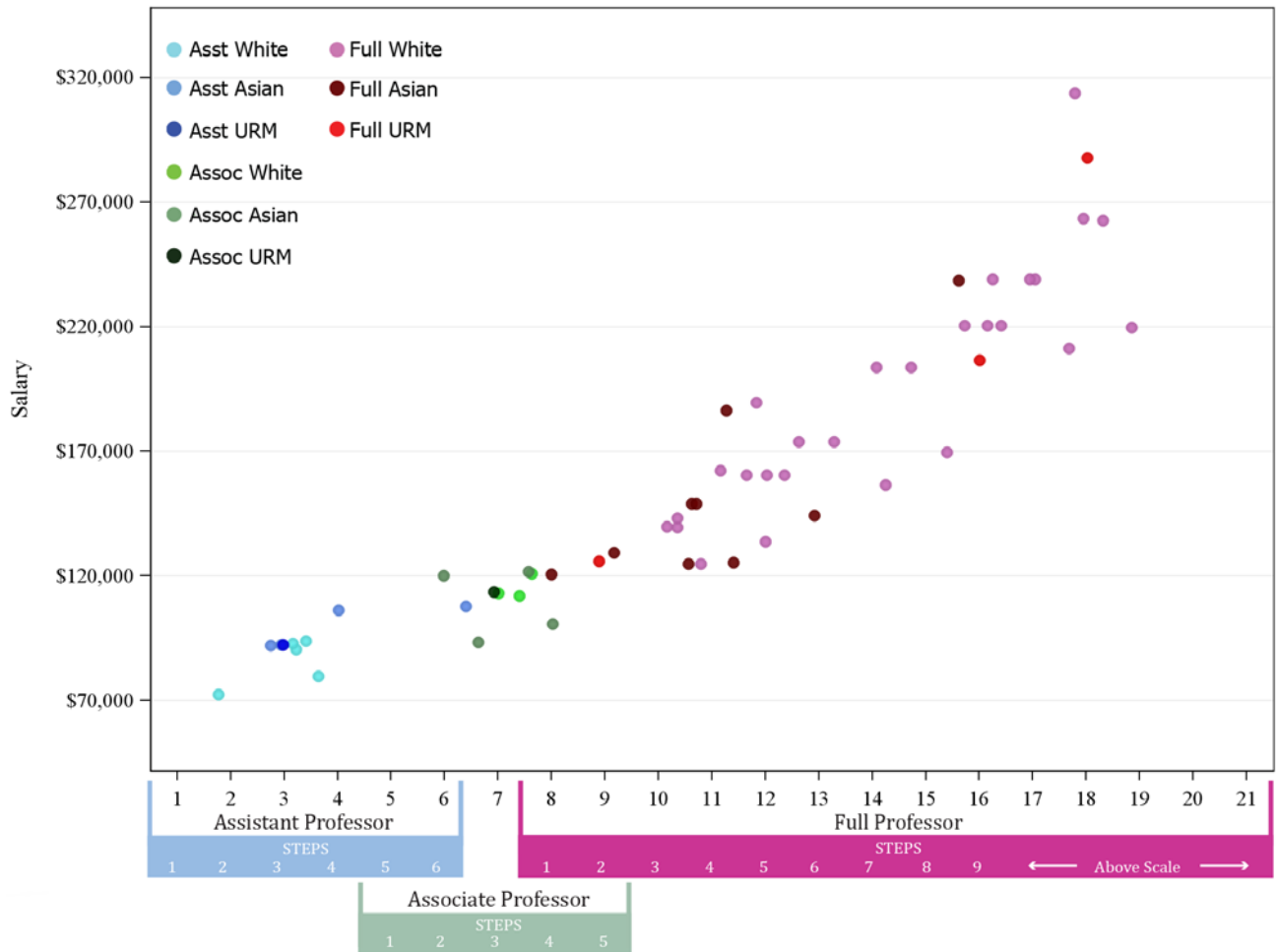
Results

1. Salary data for all ladder rank faculty plotted as a function of rank/step/gender and rank/step ethnicity.

Graph 1: School of Medicine (Basic Sciences), Salary (X plus X') by Rank/Step and Gender



Graph 2: School of Medicine (Basic Sciences), Salary (X plus X') by Rank/Step and Ethnicity



- Multiple regression analysis of salary vs rank/step. As indicated in Table 1, the simplest model with only demographic variables shows that relative to white male faculty, women earn salaries that are 2% more, Asian faculty earn 23% and URM faculty earn 5% lower. Only 10% of salary variation is explained by this model. After all control factors are added, 90% of salary variation is explained by a model with demographic, experience, field, and rank variables. After adjusting for covariates, relative to white male faculty, salaries are 1.5% lower for faculty who are women, 1% lower for Asian, and 7% lower for URM faculty. This model also shows demographic variables are not statistically significant.

Table 1.

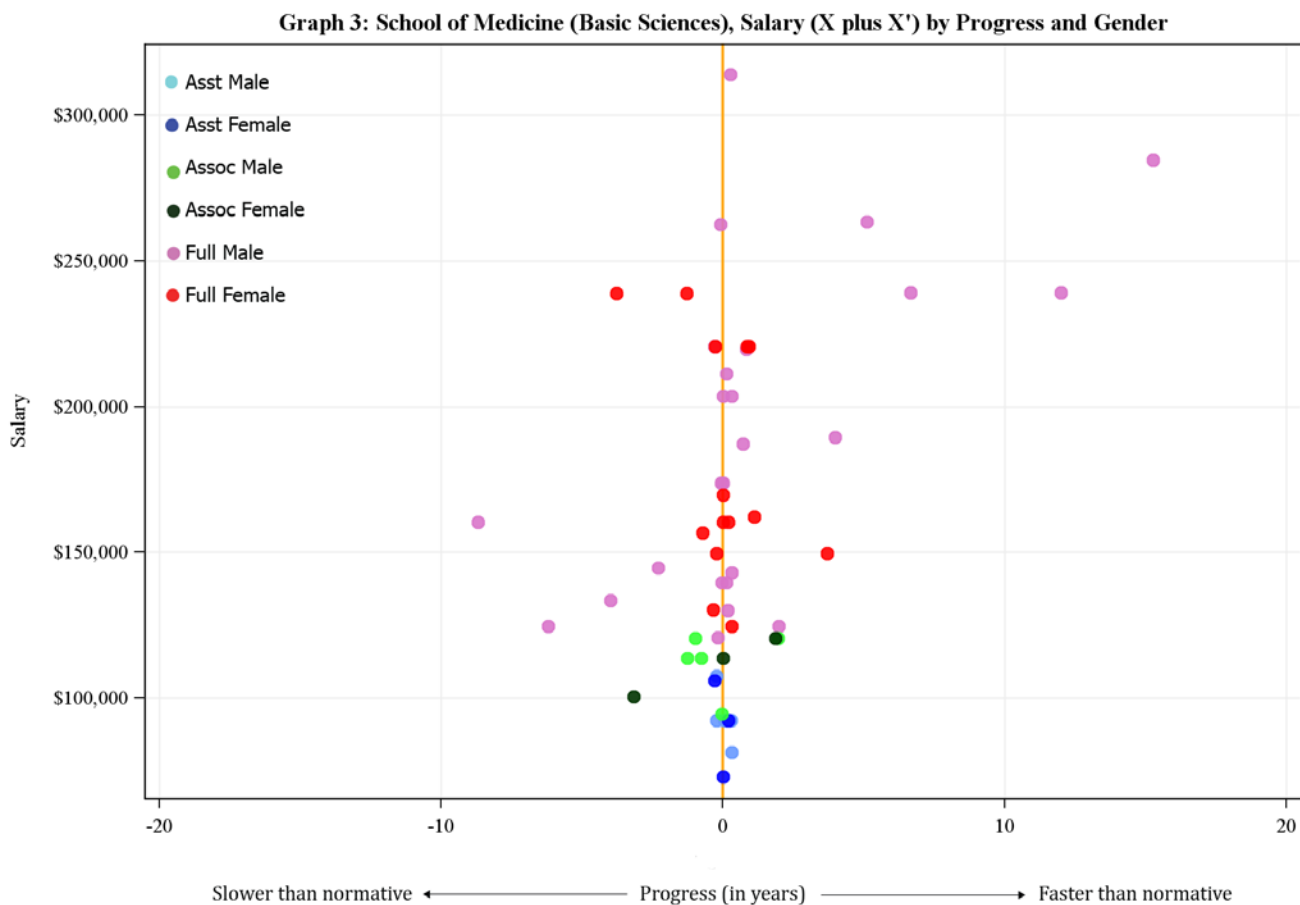
Submodel ¹	R-sq	Significant Variables	Salary Difference		
			Women vs White Men	Asian vs White Men	URM vs White Men
1 Demography	0.10	Asian*	2.0%	-22.7%	-4.9%
2 Demography, Experience	0.78	Experience***	-4.9%	-3.4%	-0.4%
3 Demog, Exper, Field	0.79	Experience***	-4.9%	-3.3%	1.1%
4 Demog, Exper, Field, Rank	0.92		-0.7%	-0.9%	1.3%
5 Demog, Exper, Field, Rank ²	0.90	Experience***, Rank***	-1.5%	-1.3%	-6.9%

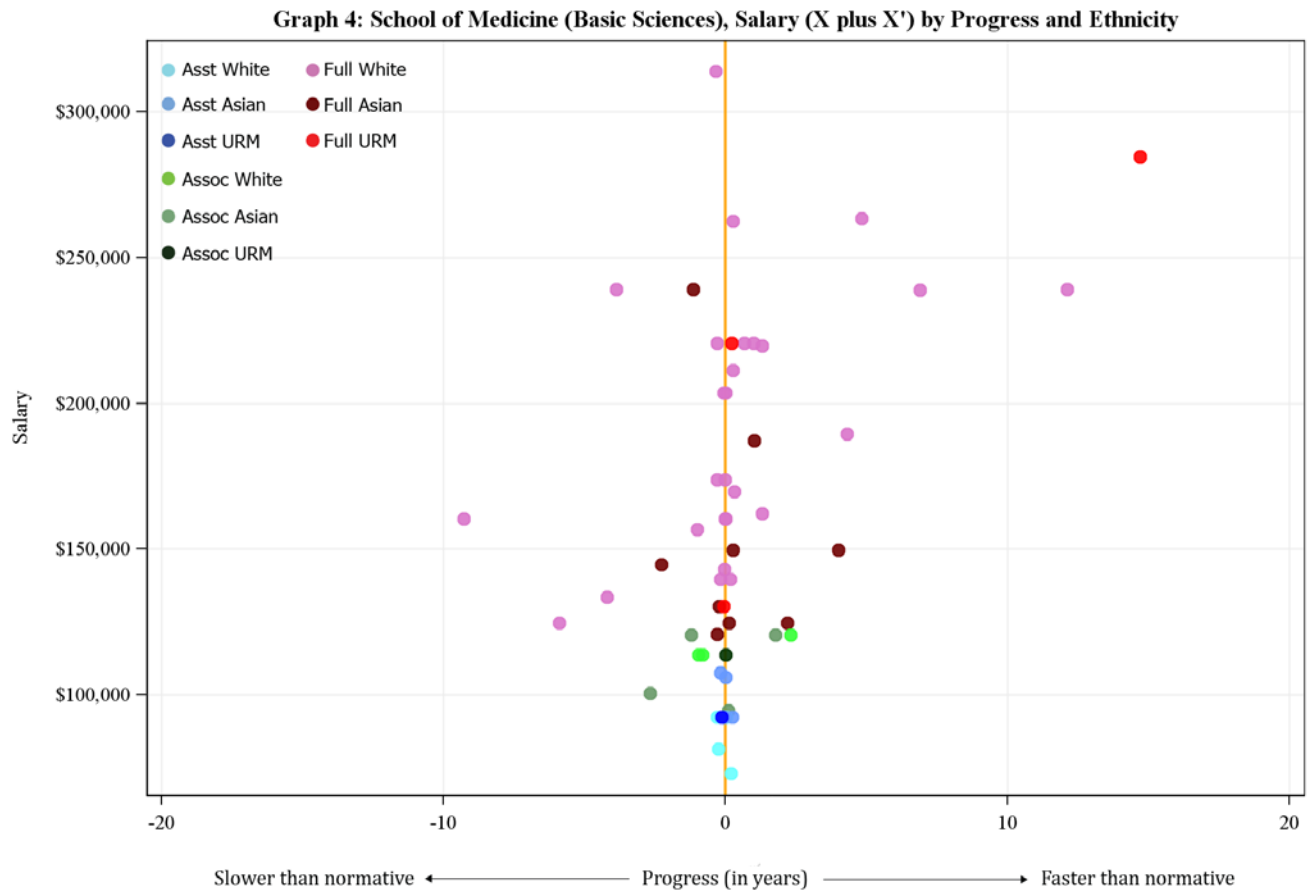
*p<0.05, **p<0.01, ***p<0.001

¹Experience includes years of services, years since degree, decade of hire. Field includes department and the market ratio of salaries tied to the faculty member's department. Rank includes their starting rank at UCI, their current rank at UCI, and where they stand in relation to normal progress.

²Final model corrected for collinearity.

3. Progress Rate plotted as a function of gender and ethnicity





- Progress Rate Analysis:** The results indicate there is no statistically significant difference in progression rate means by either gender or ethnicity when compared to white male faculty.

Progress Rate (in years) Comparison

Comparison	n	Mean	t	df	p-value
White Male vs	24	0.33			
Women	20	0.00	-0.37	32	0.711
URM	5	3.00	1.20	27	0.239
Asian	17	0.12	-0.24	32	0.812

^aHomogeneity of variance assumption not met. Satterthwaite variance estimator used.