UCIrvine
OFFICE OF
INSTITUTIONAL RESEARCH
Planning and Budget

Page 1
September 23, 2016

Faculty Salary Equity Study
School of Information and
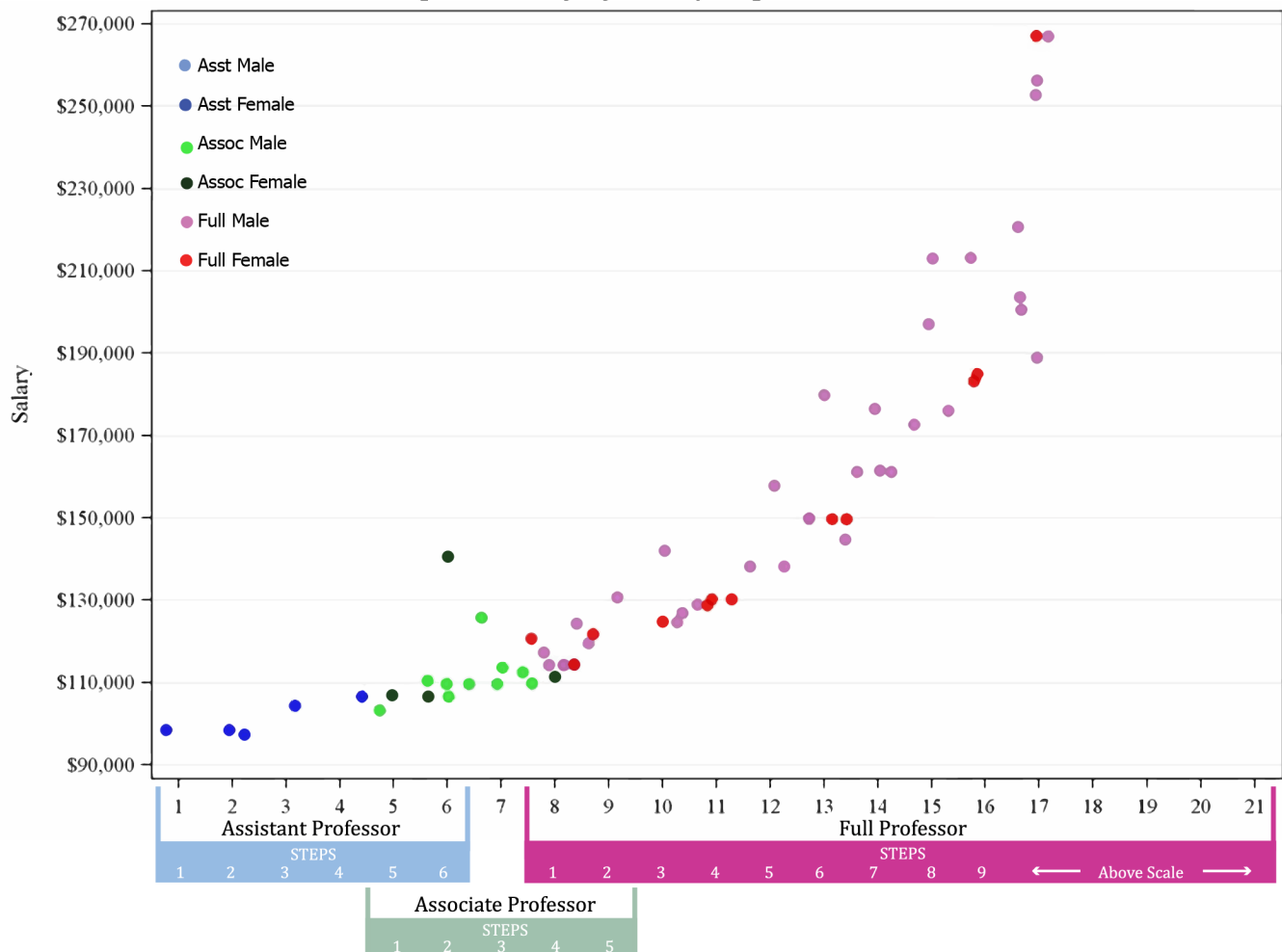## Computer Sciences

Overview

A joint Administration-Academic Senate Committee has undertaken the planning and execution of an equity study on ladder rank faculty salaries. The analyses presented focus on regression models that go beyond the annual residual analysis conducted in the past (1997-2014) and include evaluation of rate of progression through the ranks. The methodology used and results for the analyses at the whole campus level are available in the campus report. Results of the school level analyses are available in separate reports for each of 14 Schools/Units. SOM faculty continue to be excluded from this study due to the differences in compensation associated with participation in the COMP plan.
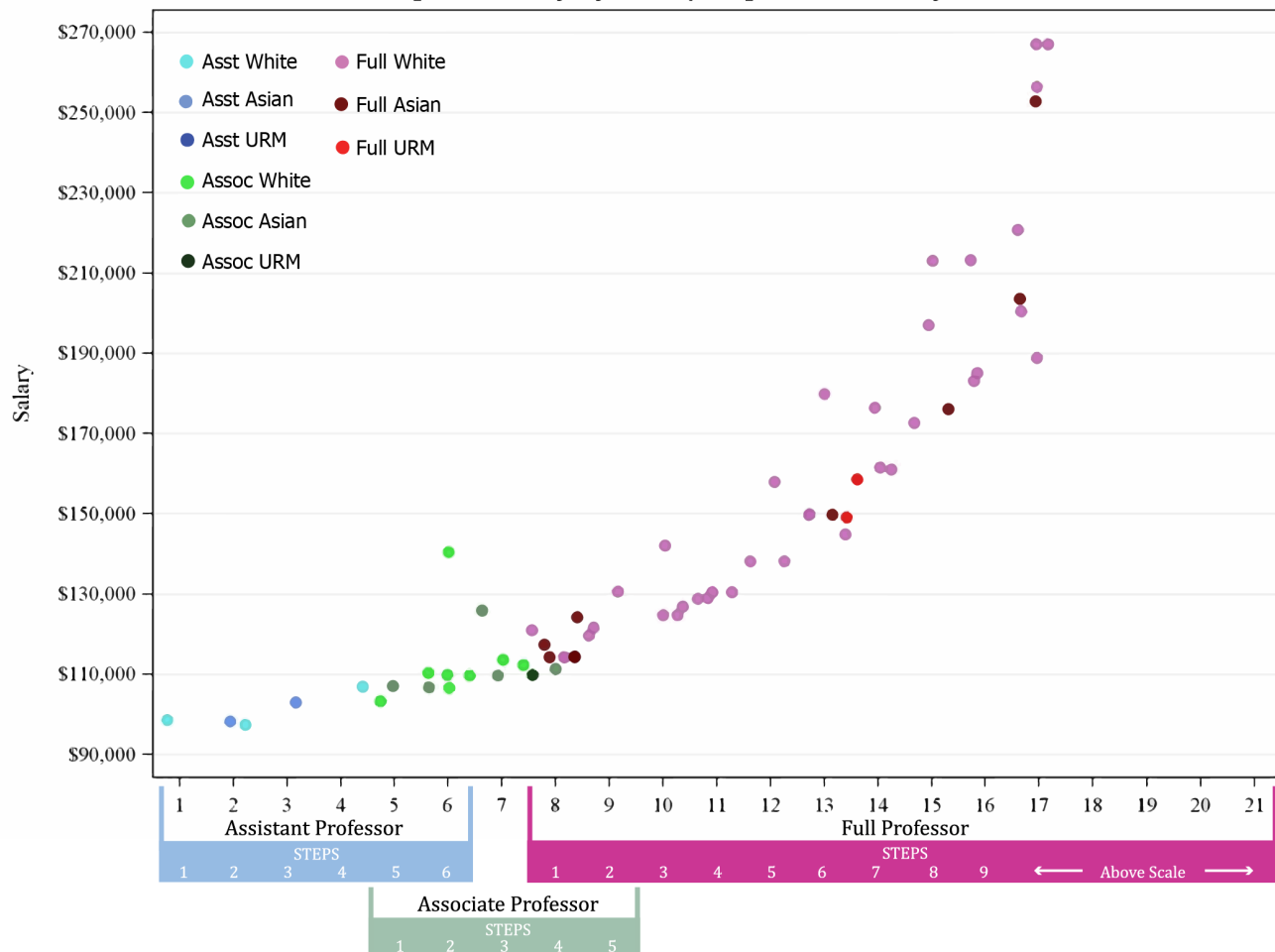
Methodology (see campus level report)

Results

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

Graph 1: Salary by Rank/Step and Gender - ICS

UCIrvine
OFFICE OF
INSTITUTIONAL RESEARCH
Planning and Budget

Faculty Salary Equity Study
School of Information and
Computer Sciences

Graph 2: Salary by Rank/Step and Ethnicity- ICS

2. Multiple regression analysis of salary vs rank/step. As indicated in Table 1, the simplest model with only demographic variables shows women earn salaries that are 2% lower, Asian and URM faculty earn 20% and 4% less, respectively, compared to their colleagues who are white and male. However, only 4% of salary variation is explained by this model. As control factors are added to the model, salary differences change with women earning 3% less, Asian faculty earn 1% more, and URM faculty earn 3% less, compared to white male faculty. The percentage of salary variation explained by the model increases to 95%.
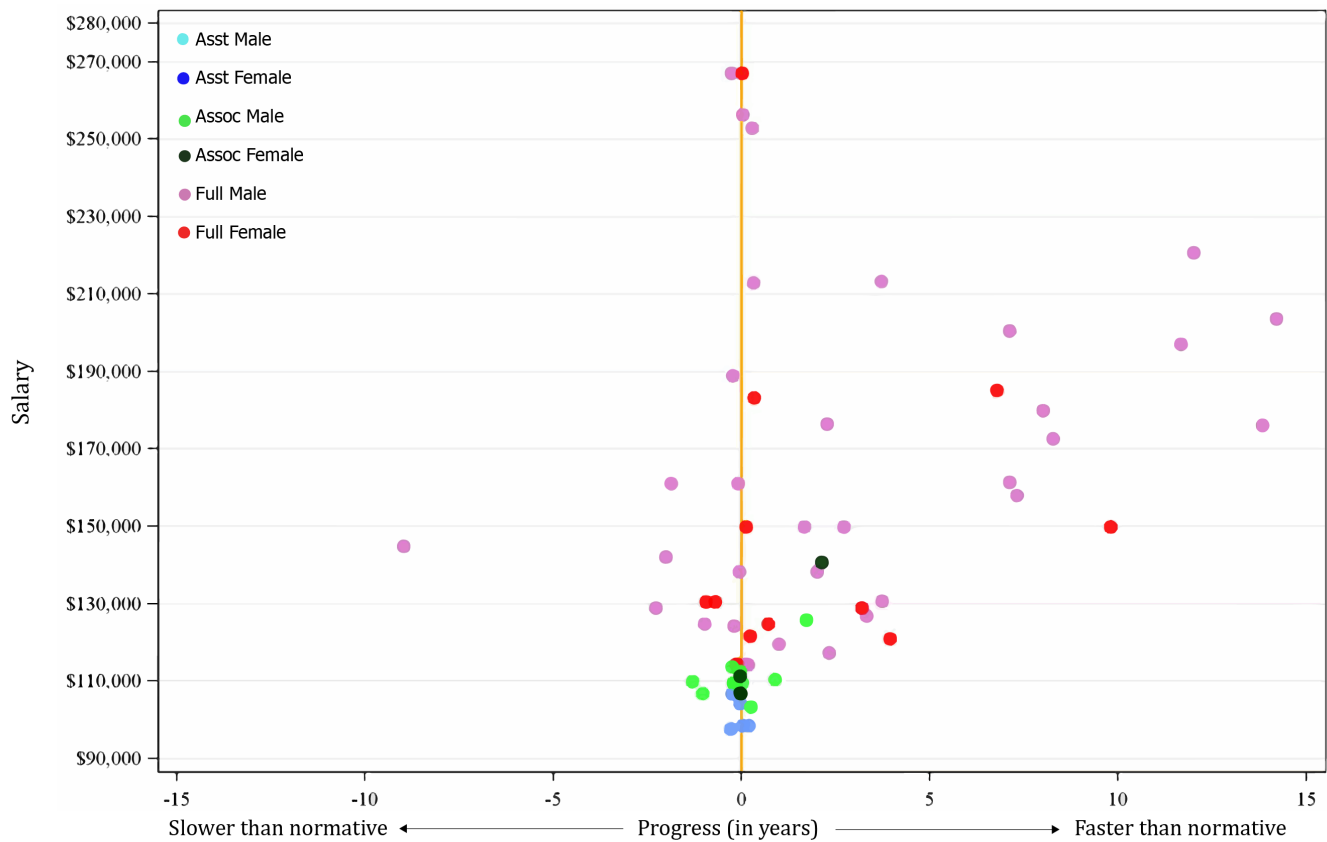
UCIrvine
OFFICE OF
INSTITUTIONAL RESEARCH
Planning and Budget

Faculty Salary Equity Study
School of Information and
Computer Sciences

Table 1.

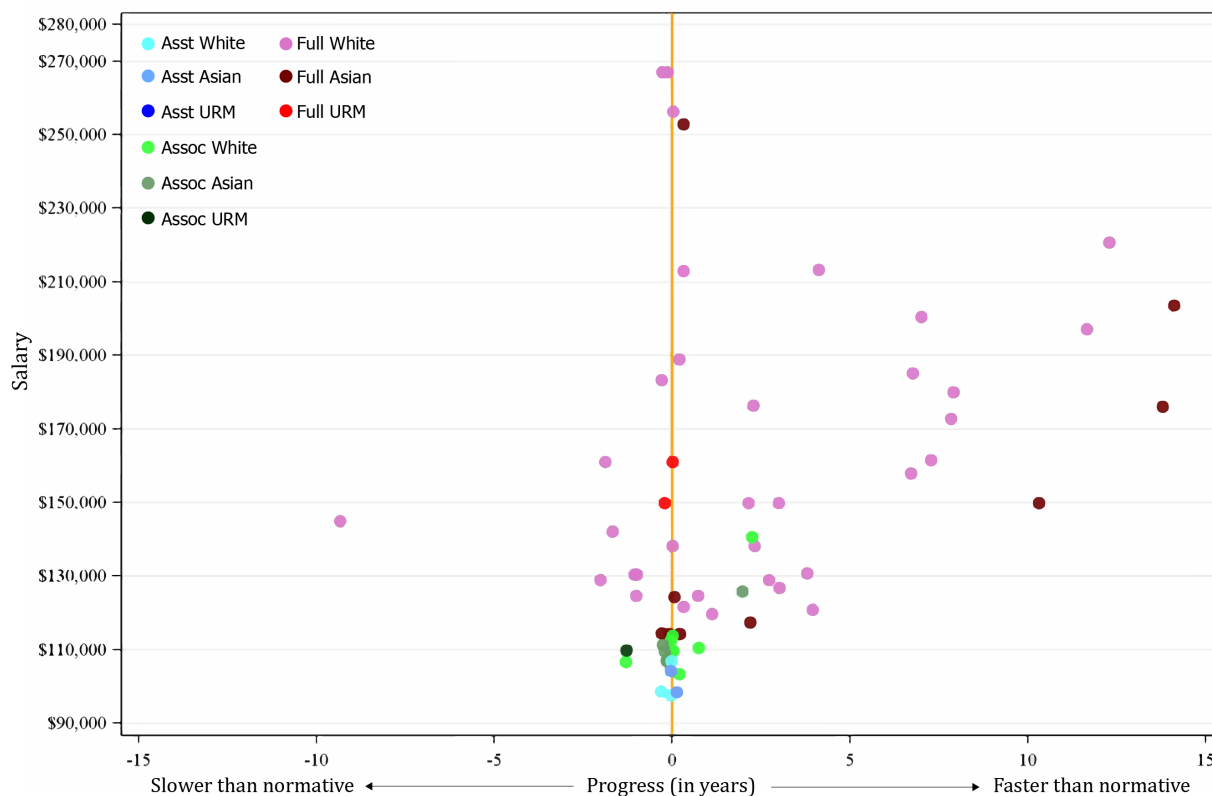| Submodel	R-sq	Significant Variables	Salary Difference		
			Women vs White Men	Asian vs White Men	URM vs White Men
1 Demography	0.04		-2.4%	-19.8%	-3.6%
2 Demography, Experience	0.76	Experience***	-12.4%	5.1%	-8.8%
3 Demog, Exper, Field	0.78	Experience**	-11.3%	4.4%	-8.5%
4 Demog, Exper, Field, Rank	0.95	Field*,Rank**	-3.3%	-0.4%	-2.1%
5 Demog, Exper, Field, Rank[1]	0.95	Exper***,Field*,Rank***	-3.4%	1.3%	-3.1%

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

[1]Final model corrected for collinearity.

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

Graph 3: Salary by Progress and Gender - ICS

UCIrvine
OFFICE OF
INSTITUTIONAL RESEARCH
Planning and Budget

Faculty Salary Equity Study
School of Information and
Computer Sciences

Graph 4: Salary by Progress and Ethnicity - ICS

4. <u>Progress Rate Analysis</u>: The results indicate there isn't a statistically significant difference in progression rate means by either gender or ethnicity when compared to white male faculty, indicating there is no evidence of biases against promotion.

Table 2. Progress Rate (in years) Comparison

Comparison	n	Mean	t	df	p-value
White Male	57	1.78			
Women vs White Male	16	1.56	0.19	51	0.8475
URM vs White Male	3	-0.33	0.88	38	0.3823
Asian vs White Male	16	2.63	0.64	51	0.5271