

Notes on Regression of Science Faculty Salary, 2007-2008

Salary	Actually Salary (in Dollars) used; Data retrieved from the City University Personnel System (CUPS) database - FALL 2007 and SPRING 2008 miniflat files. RRI and supplemental salaries were not included in these analyses.
Sex	Female =1; Male = 0
Years Since Degree	2008-Year of final degree reported on CUPS database; Data retrieved from the City University Personnel System (CUPS) database for FALL 2007 and SPRING 2008 semesters.
Years Since Degree (centered)	To reduce redundancy, this variable was centered by subtracting the mean of the variable from each of the measure of the variable (YsD - meanYsD)
Time in current Rank	Number of years in current appointment
Sum TIR (Total length of employment at HC)	Time at Hunter College takes into account all tenure-line years worked at Hunter College for each professor as of 30 June 2008; Data retrieved from the City University Personnel System (CUPS) database - FALL 2007 and SPRING 2008 miniflat files.
Sum TIR (Total length of employment at HC) - Centered	To reduce redundancy, this variable was centered by subtracting the mean of the variable from each of the measure of the variable (Sum - mean Sum)
Rank	Distinguished Professor =1; Professor = 1; Associate Professor =1;
Department	Department were grouped into broader discipline categories (natural and social sciences) instead of using individual departments to ensure than at sufficient number of faculty fell into each category (discipline and rank); Natural Science =1; Social Science =0.

Example 1: To predict the salary of a male assistant professor in the social sciences who has had his degree for 5 years and has been in that rank for 2 year, look first at the constant term, \$79,020.3, listed in the first row in the Coefficients table on the fist sheet "Salary a". Since the dummy variables were chosen as they were, the constant represents the salary for a male assistant professor in the social sciences. Multiply 5 (Years since degree) by 886.5 and 2 (Time in current rank by - 187.6). Add these totals to the constant to get a more accurate estimate of salary. The outcome using these unstandardized regression coefficients is \$83,077.6

Example 2: To predict the salary of a male assistant professor in the social sciences who has had his degree for 5 years and has been at Hunter for 2 year, look first at the constant term, \$78,755.02, listed in the first row in the Coefficients table on the fist sheet "Salary a". Since the dummy variables were chosen as they were, the constant represents the salary for a male assistant professor in the social sciences. Multiply 5 (Years since degree) by 1043.35 and 2 (Time at Hunter by - 339.25). Add these totals to the constant to get a more accurate estimate of salary. The outcome using these unstandardized regression coefficients is \$83,293.27