There are a number of appropriate statistical approaches one could take to assess faculty salary equity. Factors unique to each department should guide the approach taken. Below is an example of one approach one might consider:
(1) A regression of salary for males only on rank, MD status, and years since terminal degree;
(2) Calculation of residuals for male and female faculty based on the model for males (actual salary minus predicted salary from (1)). Decisions regarding salary increases would then be based on the magnitude of the (negative) residuals.

1. General Summaries by Gender



## 2. Regression analysis for males, including 1 Assistant Professor

Associate Professors are reference group, years since terminal degree is centered at 10 years.


- Estimated average male Associate Prof salary, 10 years post-terminal degree, is $\$ 9317.46$
- Estimated average salary of male Full Professors with same time since degree is $\$ 1752.55$ higher than Associate.
- Estimated average salary of male Assistant Professors with same time since degree is $\$ 814.04$ higher than Associate.
- Each additional year since degree increases mean salary by \$256.38

3. Regression residuals for male and female faculty.



