University of Illinois Faculty’s Salary Survey

**Page 1: Home Page**

* Project description

In searching for a position in the academia, salary could be a criterion for candidates in choosing which colleges to apply for and work in. In order to provide an overview of salary variation across the campuses in the University of Illinois (UI) system, this project surveys the 2013-2017 salary distribution of faculty members from different departments in the three campuses of UI, namely Chicago, Springfield, and Urbana-Champaign. By using interactive bar charts, pie charts, line graphs, and box plots, the ranges and changes of salary at different academic positions and departments across the campuses and over the five years are revealed. Based on the results, postgraduate students seeking for jobs and faculty members looking for mobility can have their career planned accordingly.

* Procedures
* Data sources

Data are scraped from the UI Gray Book available at the Board of Trustees Office website. Data of the recent five years (i.e. 2013/14 – 2017/18) collected include:

* College
* Campus
* Department
* Employee
* Job Title
* Tenure
* Employment Class
* Salary
* Data cleaning

The data include not only information on academic positions, but also administrative staffs. In order to study of the salary distribution of only academic staffs, data were cleaned. Only data for faculty positions are used in the survey.

* Visualization tools

Data are analyzed with Python;

Results are visualized with Plotly;

Web page are generated by Dash and Heroku.

**Page 2:** **Faculty’s Salary Range Distribution (By Department)**

The bar chart here shows the distribution of salary in a department of a campus for a chosen year. X-axis represents the salary range. Y-axis indicates the proportion of faculty in the department.

Instruction:

Select a campus, a department, and a year for generating a graph.

**Page 3: Faculty’s Salary Distribution over 5 Years (By Department)**

The box plot on this page shows the salary distribution of faculty in a particular department from 2013 to 2017. The plot indicates the minimum, maximum, and median salary, as well as the range from the first to the third quartile.

Instruction:

Select a campus and a department for generating a graph.

**Page 4: Comparison of Faculty’s Salary Range (By Department)**

The bar chart on this page compares the salary distribution between two chosen departments. X-axis indicates the proportion of faculty in the two departments. Y-axis represents salary range.

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Instruction:

Select the campus, the department, and the year of the two departments for comparison.

**Page 5: Population of Faculty in a Department and Comparison of Median Salary (By Department) across Campuses**

The pie chart and the bar/line graph here inform the population of faculty members of a selected department common across the three campuses and the median salary in the department.

The pie chart shows the proportion of faculty in the department in each campus over the total sample size.

The bar/line graph informs the number of faculty in the selected department and also compares the median salary of faculty across the three campuses.

Instruction:

Select a department and a year for the graphs.

**Page 6: Departments with Top Ten Median Salary (By Campus)**

The following three bar graphs show the departments in each campus with the top ten median salaries.

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**Page 7: Departments with Top Ten Median Salary (By Position)**

The following three bar graphs show the departments in each campus with the top ten median salaries for a chosen position.

Instruction:

Choose a position for generating graphs.