What does a Statistician Do?

https://www.youtube.com/watch?v=gOzIQ_EyJ0o
Why Statistics

• Nearly 100% job placement in a field using their statistical knowledge
• Top Pay
• High Quality of Life
• Low Stress
Top Jobs in America

• According to CNN Money:
  – Statisticians are ranked 3rd in all careers with the lowest job stress.
  – Statisticians are ranked 3rd in all careers with the most flexibility.
Top Jobs in America

• According to the Wall Street Journal:
  – Statisticians as a career was rated 3rd in the "Best Jobs of 2014" category.
The New York Times offers its prediction for the “next big job” which in a single word:

STATISTICS

Volumes of data is getting more and more common. Due to the ability to store more data, the demand for statisticians is growing right along with the volumes of data. The information stored in all this data won’t be any good without statisticians to analyze it.
An Interesting Career Option…

• The diversity of problems in which Statisticians become involved is remarkable.

• The best part about being a Statistician is that you get to interact with a wide variety of interesting people on interesting diverse projects.
### Statistician Salary Information

**Source:** Bureau of Labor Statistics, May 2011

<table>
<thead>
<tr>
<th>Employment</th>
<th>Mean hourly wage</th>
<th>Mean annual wage</th>
</tr>
</thead>
<tbody>
<tr>
<td>23,770</td>
<td>$37.16</td>
<td>$77,280</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Percentile</th>
<th>10%</th>
<th>25%</th>
<th>50% (Median)</th>
<th>75%</th>
<th>90%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hourly Wage</td>
<td>$19.15</td>
<td>$25.16</td>
<td>$35.52</td>
<td>$46.83</td>
<td>$57.55</td>
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<tr>
<td>Annual Wage</td>
<td>$39,840</td>
<td>$52,330</td>
<td>$73,880</td>
<td>$97,410</td>
<td>$119,710</td>
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</table>
Demand for Statisticians

- The demand for statisticians is currently high and growing. According to the Occupational Outlook Handbook, published by the Bureau of Labor Statistics, the projected percent change in employment from 2012 to 2022 for statisticians is expected to 27%.

- The average growth rate for all occupations is 11%.
- We cannot graduate enough Statistics Majors to keep up with the demand!!!

http://www.bls.gov/ooh/math/statisticians.htm
What Fields Do Statisticians Work In?
What Fields Do Statisticians Work In?

- It is easier to list the disciplines that DO NOT use STATISTICS than to list those that do.
- Statisticians can be found in virtually every realm of the workforce.
- In our continuing growing world of information we need to be able to summarize and make decisions about this information that effects everything we do. STATISTICS allows this to be done.
Business and Industry

- Marketing
- Manufacturing
- Finance
- Economics
- Insurance
- Banking
- Engineering
- Statistical Computing
- Consulting
- Computer Science
- Quality Improvement
- Reliability

www.amstat.org
Health and Medicine

- Epidemiology
- Biostatistics
- Animal Health
- Clinical Trials
- Genetics
- Public Health
- Pharmacology
Government Research

- Bureau of Justice Statistics
- Census
- Ecology
- Government Regulation
- Law
- National Defense
- Population Research
- Risk Assessment
- Surveys

www.amstat.org
Science and Other Related Fields

- Biology
- Chemistry
- Agriculture
- Physics
- Nutrition
Environment

- Agriculture
- Ecology
- Forestry
- Animal Population Research
Social Science Research

- Educational Statistics
- Psychometrics
- Sociology Research
Statistics Tracks at University of Akron
Statistics at UA

- Statistics, BS
- Statistics/Actuarial Science, BS
- Minor in Statistics
Top College Major

• According to Forbes Magazine:
  – Statistics is the 15th most valuable college major in America.
Questions