Personality was found to be a strong predictor of usability ratings.

Cognitive ability was not found to predict usability ratings.

**USABILITY**
- Construct for study of human behavior and system development
- Useful for analyzing and improving systems for optimal functioning
- Measured using System Usability Scale

**BIG FIVE PERSONALITY TRAITS**
- Meaningfully impacts job and training performance, functioning in everyday life situations, important life outcomes
- Measured using Mini-IPIP Scale

**COGNITIVE ABILITY**
- Positively impacts job knowledge, performance, ability to deal with complexity, information processing
- Measured using Matrix Reasoning Test

**SAMPLE POPULATION**
- Survey sample of participants (N=972)
- Age: 18-81 years (M=43)
- 54% female

**SELECTED REFERENCES**

**HIERARCHICAL REGRESSION ANALYSIS**
- **Model 1: Gender**
  - Average $R^2$ of .004
- **Model 2: Gender + Age**
  - Average $\Delta R^2$ of .01
- **Model 3: Gender + Age + E + A + C + ES + O**
  - Average $\Delta R^2$ of .08
- **Model 4: Gender + Age + E + A + C + ES + O + Cognitive Ability**
  - Average $\Delta R^2$ of .003

**CORRELATIONS**

<table>
<thead>
<tr>
<th></th>
<th>Word</th>
<th>Google</th>
<th>Amazon</th>
<th>Computer</th>
<th>Excel</th>
<th>TV Remote</th>
<th>Microwave</th>
</tr>
</thead>
<tbody>
<tr>
<td>E</td>
<td>.12**</td>
<td>.07*</td>
<td>.13**</td>
<td>.10**</td>
<td>.15**</td>
<td>.12**</td>
<td>.12**</td>
</tr>
<tr>
<td>A</td>
<td>.09**</td>
<td>.16**</td>
<td>.21**</td>
<td>.13**</td>
<td>.03</td>
<td>.08**</td>
<td>.15**</td>
</tr>
<tr>
<td>C</td>
<td>.08*</td>
<td>.14**</td>
<td>.17**</td>
<td>.19**</td>
<td>.12**</td>
<td>.16**</td>
<td>.15**</td>
</tr>
<tr>
<td>ES</td>
<td>.15**</td>
<td>.09**</td>
<td>.14**</td>
<td>.21**</td>
<td>.27**</td>
<td>.15**</td>
<td>.14**</td>
</tr>
<tr>
<td>O</td>
<td>.11**</td>
<td>.17**</td>
<td>.12**</td>
<td>.15**</td>
<td>.15**</td>
<td>.12**</td>
<td>.14**</td>
</tr>
<tr>
<td>CA</td>
<td>.03</td>
<td>.07*</td>
<td>.04</td>
<td>.05</td>
<td>.01</td>
<td>.10**</td>
<td>.05</td>
</tr>
</tbody>
</table>

Note: E=extraversion; A=agreeableness; C=conscientiousness; ES=emotional stability; O=openness; CA=cognitive ability. * indicates $p < .05$. ** indicates $p < .01$. This material is based upon work supported by the National Science Foundation under Grant No. 1559393 and 1853936.