**TRansforming Instruction in Undergraduate Mathematics via Primary Historical Sources**

**Stats**

**(TRIUMPHS)**

<https://blogs.ursinus.edu/triumphs/>

Comments from *Quantifying Certainty: the p-value* Site Testing Report (four sections, 49 students)

Quantitative Student Data

* Students ranked that their skill of “critically reading mathematical content” the highest in the Skills Gains category.
* In terms of Attitudinal Gains, students ranked at the top the “confidence in your ability to make sense of how others think about mathematical ideas in general.”
* Overall median scores for Understanding Gains, Content Gains, and Skill Gains ranged from 3.17 to 3.33 (out of 5). Attitudinal Gains were lower with a median of 1.92 and a mean of 2.10.

Qualitative Student Data

* Some students did say that the PSP was confusing or can cause confusion or misunderstanding.
* Students said that they “can view a problem from a different angle” and have an “understanding of where ideas came or developed from.”
* Students had generally positive attitudes and were less negative about statistical problems.
* Students’ interest was prompted and their “curiosity in gaining understanding of mathematical concepts (or background for them)”.

