

Presentation Visuals and Physics Communication

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Background

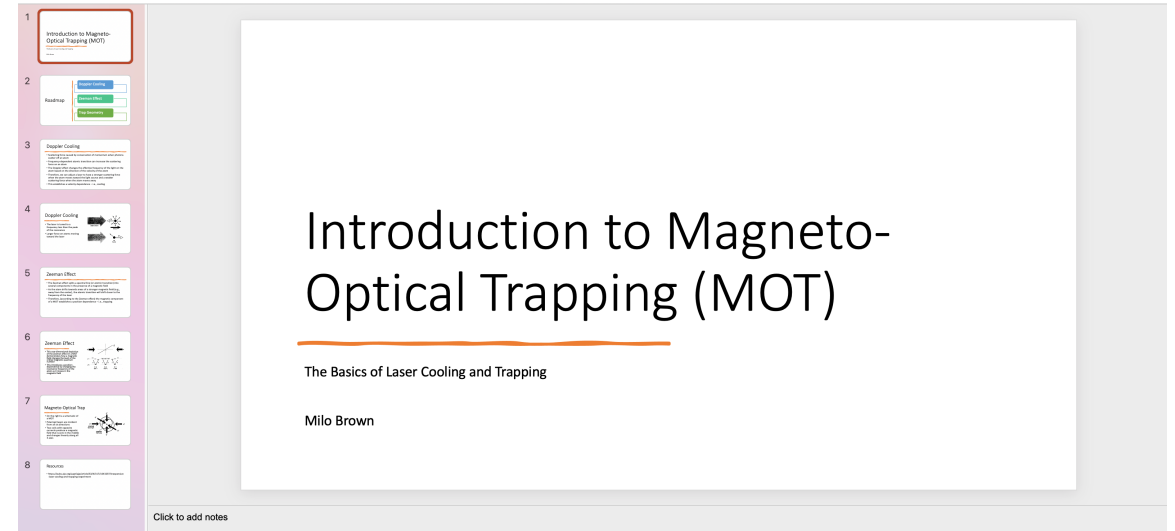
Question: How does the integration of art impact physics communication?

Hypothesis: Art integration will improve physics communication

- Dr. Jatila Van Der Veen's research in art and physics education
- What factors motivate students to learn?

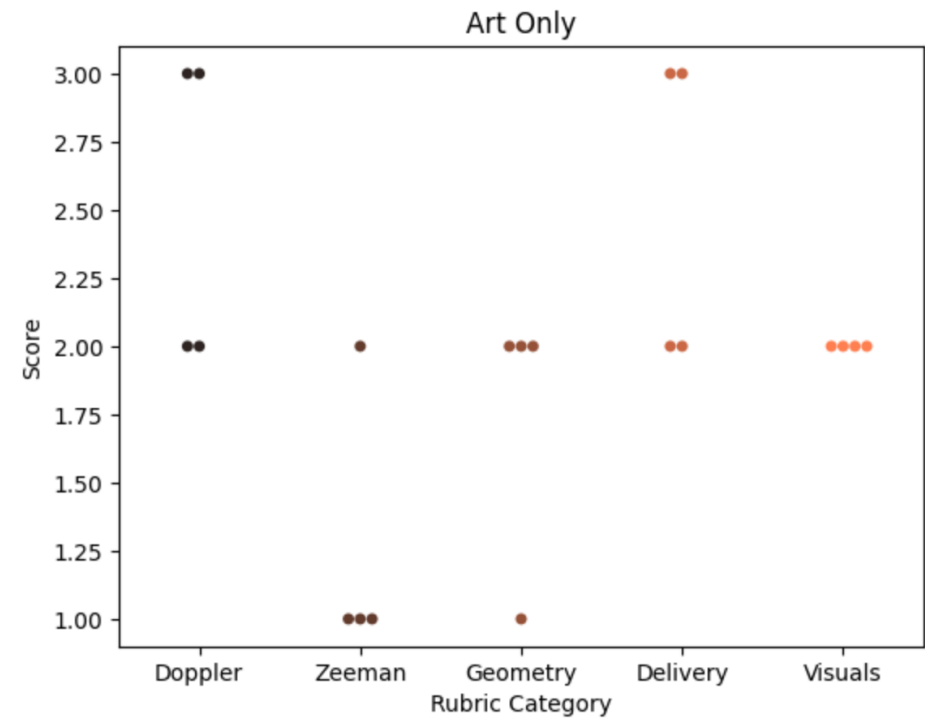
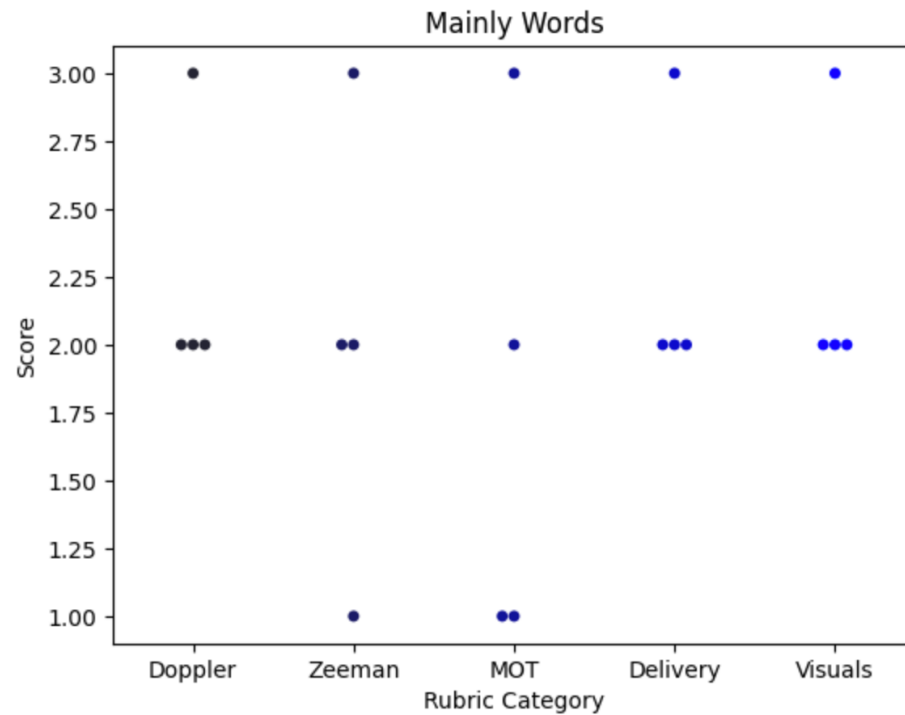
Methods

- Compared two presentations with a rubric
- Qualitative Data: Open-ended question
- Quantitative Data: Body of Rubric



Data and Results

- Four attendees
- Preliminary evidence that presentations slides should contain a mixture of art and words rather than only art





Analysis of Data and Results

- Preliminary results contradict my hypothesis
- Sample size was not sufficient to draw conclusions
- Prior knowledge: interdisciplinary difference
- Motivation: perceptions of environment
- Educators versus students: educators can struggle to identify where students get confused

Conclusions



Prior knowledge: interdisciplinary difference



Goal-oriented practice: 2nd presentation

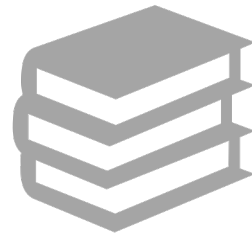


Motivation: perceived environment impacts on student learning

Future Directions



Increase sample size



Compare students from different disciplines



Analyze results from a presentation that uses both art and words

Advice

Find participants early

Bring food to lure participants

Enjoyed: Presentations

Difficulty: Finding participants