

PERbites

Accessible Physics Education Research



Perbites.org



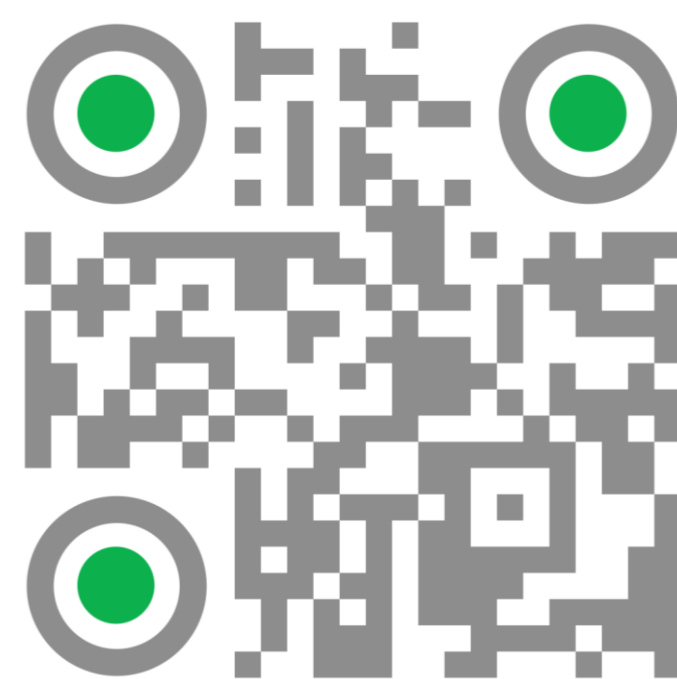
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Why PERbites?

- Teaching is a large part of academia
- Limited professional development opportunities related to teaching
- Not all education research papers are open-access

What do we do?

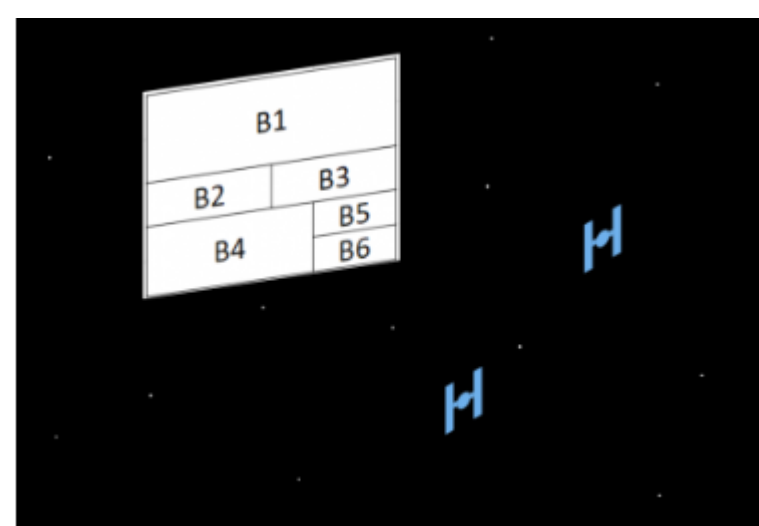
- Short summaries of recent physics education research and discipline-based education research papers
- Focus on the take-away message and how to apply the findings
- Jargon-free so these summaries are accessible to any science instructor

Who are we?

- Graduate students interested in physics education research and associated fields
- Currently 3 writers and 3 working on their first piece

Which topics do we cover?

Instructional Strategies



March 13, 2019 / Nick Young

That's no schematic, it's a power box

Today's post introduces a new type of representation for understanding circuits, the power box with multiple examples.

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Educational Practice



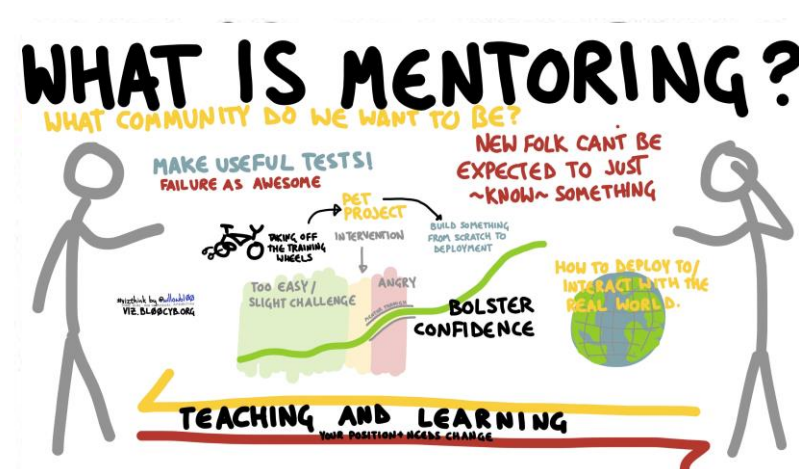
February 13, 2019 / Nick Young

Is taking notes on paper better than taking notes on a computer? Y- Maybe?

Prior work has claimed that taking notes by hand is better than on a computer but this claim doesn't appear to hold up.

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Professional topics



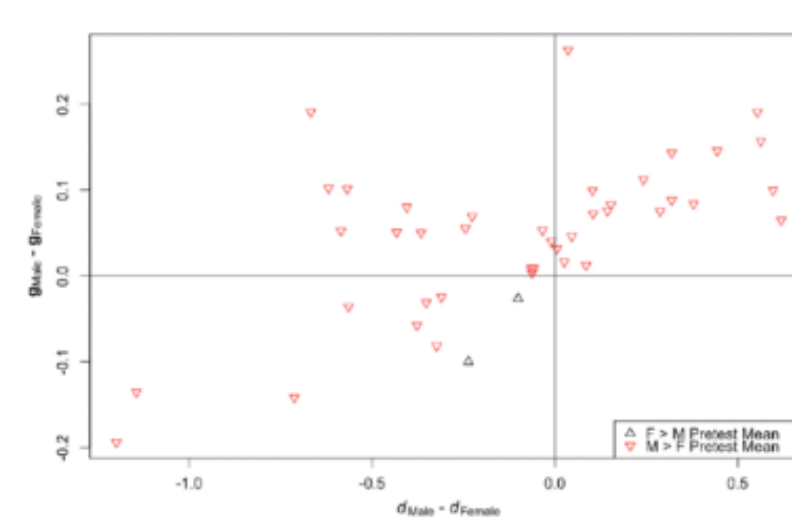
June 26, 2019 / Nick Young

Research-backed advice for mentoring researchers

Mentoring an undergraduate researcher for the first time or looking to improve your mentoring ability? See what the literature has to say.

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Research Methodology



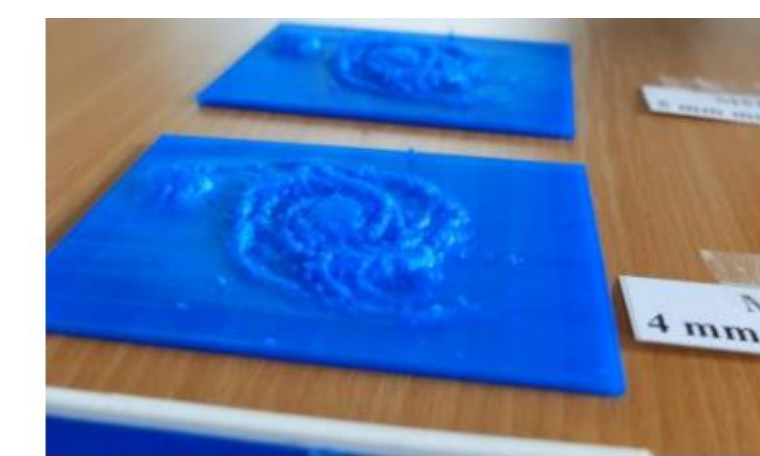
June 6, 2018 / Nick Young

To use g or not to use g? That is the question.

Normalized gain, g, has been the standard statistic in PER for the past two decades, but its statistical properties haven't been explored until recently.

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Diversity & Inclusion



July 29, 2019 / Briley Lewis

Thinking Beyond ADA Compliance: How to Make Astronomy Accessible

Title: Accessible Astronomy: Policies, Practices, and Strategies to Increase Participation of Astronomers with Disabilities Authors: Alicia Aarnio et al. First

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August 6, 2019 / Emily Kerr

Physics Knowledge Can Be Helpful For Students Learning Chemistry

Reminding students of energy in physics can help them answer energy questions in chemistry.

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January 2, 2019 / Nick Young

Buy the pizza, have the grading party

Getting a group of instructors together to grade can be difficult, but it seems to be worth the hassle.

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September 26, 2018 / Nick Young

What matters when applying to graduate school and how it impacts diversity

Physics is less diverse than other physical sciences. Do graduate school admission processes contribute to this?

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P-VALUE	INTERPRETATION
0.001	HIGHLY SIGNIFICANT
0.01	
0.02	
0.03	SIGNIFICANT
0.04	
0.049	
0.050	OH CRAP REDO CALCULATIONS.
0.051	ON THE EDGE OF SIGNIFICANCE
0.06	
0.07	
0.08	HIGHLY SUGGESTIVE, SIGNIFICANT AT THE P<0.10 LEVEL
0.09	
0.099	
≥0.1	HEY LOOK AT THIS INTERESTING SUBGROUP ANALYSIS

November 21, 2018 / Nick Young

When finding nothing is a result

Null results are often not published, but can provide useful results.

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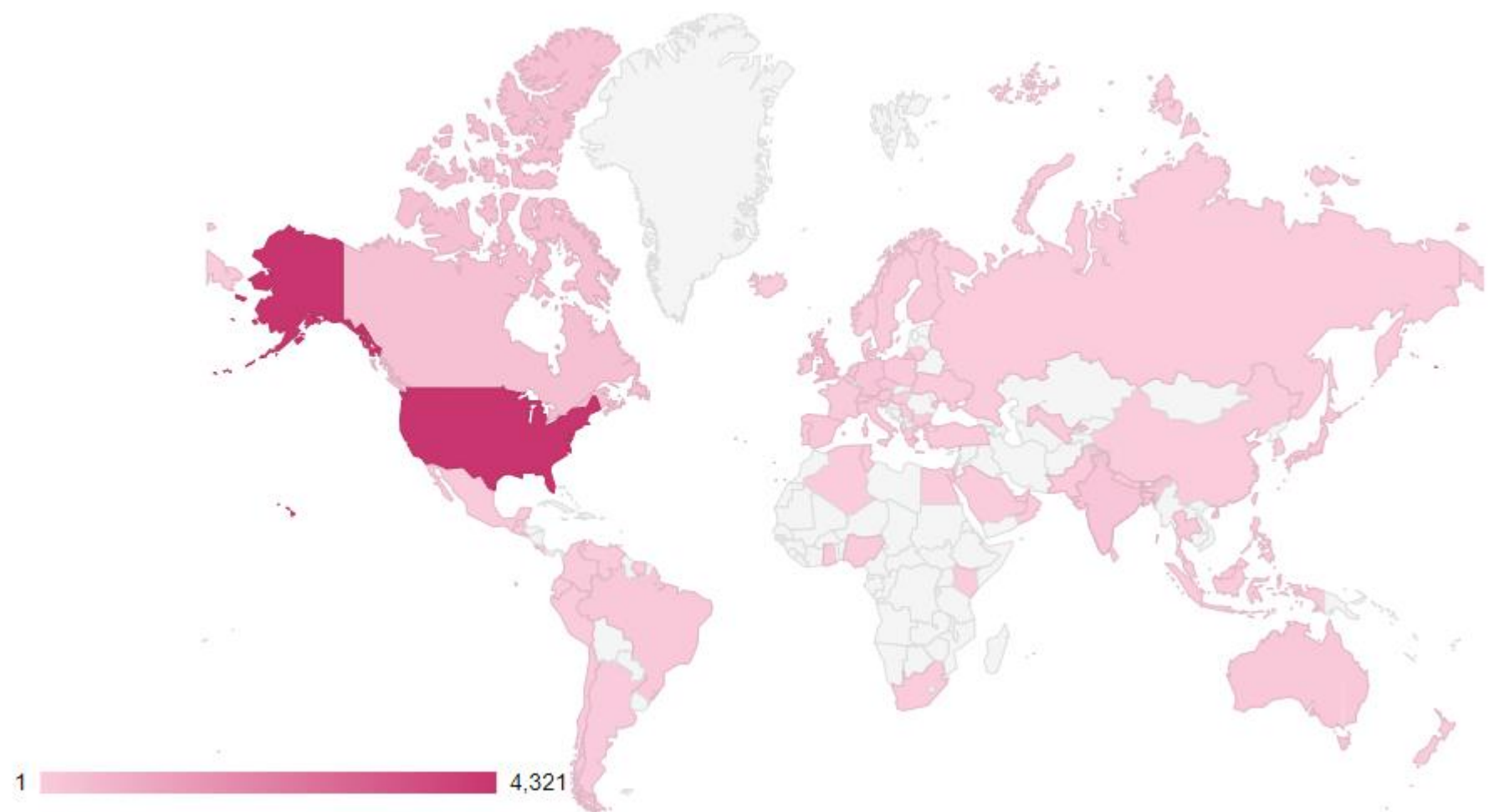
July 10, 2019 / Nick Young

Gender and racial biases still a problem in physics post-doctoral hiring

Even when the CVs are otherwise identical, physics faculty preferred applicants from majority groups as opposed to candidates from minority groups.

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Where are our readers from?



- 43 articles published
- 78 countries reached
- Most popular country by views: United States (65.4%) followed by the United Kingdom (7.0%) and Canada (4.6%)

How can you get involved?

- Interested in writing for PERbites? Email us at perbites@gmail.com
- Want to get involved but not interested in physics education research? Check out our sister sites:

