#### Georgia Tech

**CREATING THE NEXT** 



Georgia School of Tech Physics

**Using Deliberate Innovation to Understand Indifference in Graduate Advisor/Advisee Relationships** AAPT Summer Meeting 2021 Contributed Talk, ID: 2936 Erika Cowan, Garrett Price, Dr. Michael Schatz

# What do we care about?

- We care about graduate students and their advisors getting stuck in the research and not being able to move forward
- We separately talk to graduate students and their advisors about specific situations they are in surrounding that relationship, in a particular way from the Center for Deliberate Innovation at Georgia Tech.



### What are we trying to do?

- We think there is a problem, or series of problems, in the relationship with the graduate advisor and graduate student.
- If we can show up in a way, finding something that graduate students or faculty are naturally drawn to do, we can help them get unstuck in some way.



# What is non-indifference?

- Non-indifference is something that someone cannot not do when presented to them.
- It looks like: Someone doing everything they can to get unstuck from a situation, but being unsuccessful.
- Figuring out that inescapable situation and what is holding them back leads to figuring out nonindifference.
- It enables us to find something that naturally motivates the people we care about, and is something we can use to help them get unstuck from their situation.



# How is this different?

- Instead of identifying what we think the problem to be and immediately problem solving, we go out and try to disconfirm that that's true.
- We look to rule out what we think is true, looking for disconfirming evidence.
- Ruling out what we thought was true can be just as interesting as finding what we think to be true.



# Why care about indifference?

- In the process of looking for non-indifference, we find indifference.
- Finding indifference shows us where not to focus our attention
- It allows us to see more completely what people do and do not sincerely care about.



# An example we've found of indifference

- In our research process, we look for places where students and faculty are stuck.
- We thought that students would care about how long it took to write a paper.
- With students we have talked with, we found that students are indifferent to how long it takes to submit a paper to their advisor
- They let the paper sit unfinished on their computer for weeks to months, without talking to their advisor about it.
- Non-indifference could look like students asking their advisor for advice or going to someone else if their advisor was unavailable... maybe even asking other students for help.



# Why do we care about indifference?

- Seeing where there is indifference tells us where not to look, and what to not waste our time on
- This allows us to look for non-indifference, thus enabling us to find a place where we can actually help the people we care about



#### What are next steps?

- Talking with more students and faculty
- Examining what it means for students and faculty to talk about "making progress," positing that there is a disconnect with what it means for a student and what it means for their advisor.

