



# FALL 2022 MATHEMATICS COLLOQUIUM PRESENTER'S GUIDE

## WHY PRESENT?

Grow professionally

Improve your presentation skills

Add to your CV

Get inspired

Learn about new things

Collaborate

Have fun

Discover beauty of Mathematics

Connect with like-minded people

Share your passion

## WHO can present ?

- Any student taking a Mathematics course at PPCC
- Prior presenters were students who took courses ranging from MAT 050 to MAT 265

## TESTIMONY from a student presenter and instructor

"I really enjoyed the Math Colloquium because I think that there is no better way to understand a concept well than teaching others or talking to others about it."

"As a concurrent enrollment instructor with Harrison School District 2, I viewed the Fall 2019 Math Colloquium as an educational opportunity for the most underserved students in our community. Following the conclusion of the event, I immediately sensed a newfound confidence and bearing in the students. They were so proud of what they had accomplished and spent the remainder of the semester bragging about their experience to their classmates. Many have since chosen to pursue new challenges to further their academic achievement."

## CELEBRATING OUR STUDENT TALENT

**WHEN:** Friday, December 2 2022  
11:30 am – 3:30 pm

**WHERE:** Centennial Campus, room A 167

## Fall 2022 Keynote Address

### Dr. Leann Ferguson



Dr. Leann Ferguson is an Assistant Professor with the Department of Mathematical Sciences at the United States Air Force Academy, and a Lieutenant Colonel in the US Air Force. Militarily, Dr. Ferguson has served in various technical and training assignments across several commands, including strategic planning, program management, and operations assessment for NATO and US Special Forces; responsive and relevant analyses and decision support (including lessons learned) for the Space Force; operational test and evaluation of the US' Missile Warning system; as well officer training at the Air Force's Officer Training School and Mathematics and Statistics instruction at the U.S. Air Force Academy. She received her PhD from Indiana University for her work in Curriculum and Instruction, specifically Mathematics Education at the post-secondary level. Currently, she is teaching Multivariate Calculus and proof-based Linear Algebra, facilitating a Calculus Teaching Practicum, and conducting research into Reflection as a Learning Tool and Faculty Development and Training.

### Transfiguring Graded Events from a Destination to a Journey: Motivating Learning through Reflection

More often than not, a course's graded events (tests, quizzes, homework) are seen as the culmination of learning, as a test to see what students learned and didn't learn about given topics and concepts. Once the assessment is graded and returned to the students, it is quickly pushed aside in favor of the next round of topics and concepts. This vicious cycle left me frustrated and disheartened; especially as I saw so many opportunities for learning in the trash can outside my classroom door. So, I did something about it. And this something worked; it really worked! I had students go from an F halfway through the semester to earning an 80% on the comprehensive (Calculus) final. My students were improving their grades, but more importantly they were building their confidence while developing a better grasp of the concepts. In this keynote, I want to share this something, a "reflection" activity that follows each test, with you, and I want to inspire and empower you – student and teacher alike – to affect positive change in your own and/or your students' learning.

## WHAT topics?

- You can present on any math or applied math topics
- Prepare a poster using the Expo template and submit it to [HIPs@ppcc.edu](mailto:HIPs@ppcc.edu)

## HOW to prepare?

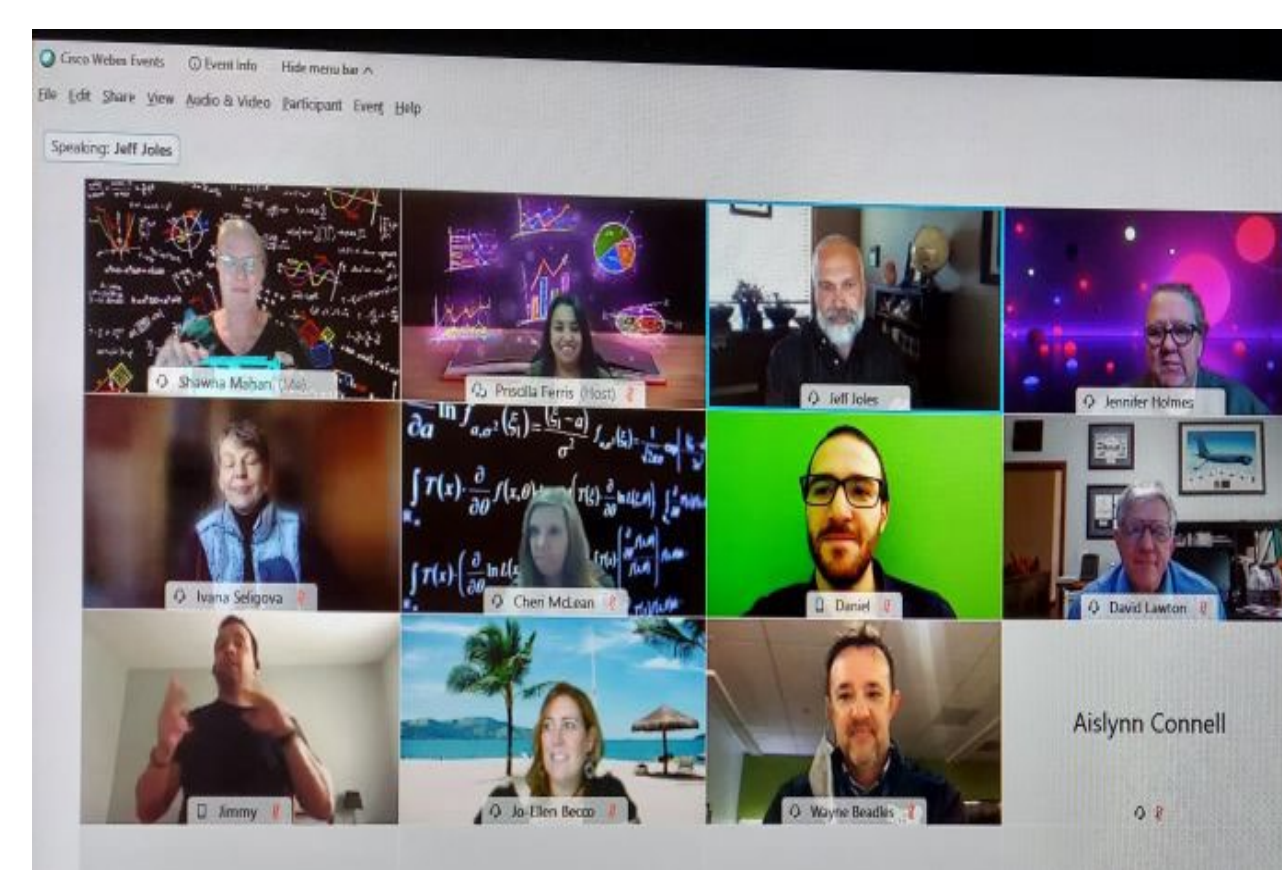
- Select your topic
- Engage with your instructor
- Do your research
- Collect resources
- Prepare your Expo Poster
- Have your instructor review the poster, make suggested edits
- Rehearse in front of your friends
- Watch other presenters

See *"Giving a Good Presentation"* and *"Math Colloquium Topics"* in the *Colloquium LibGuide*

<https://libguides.ppcc.edu/c.php?g=675604&p=7903739>

## PAST EVENTS

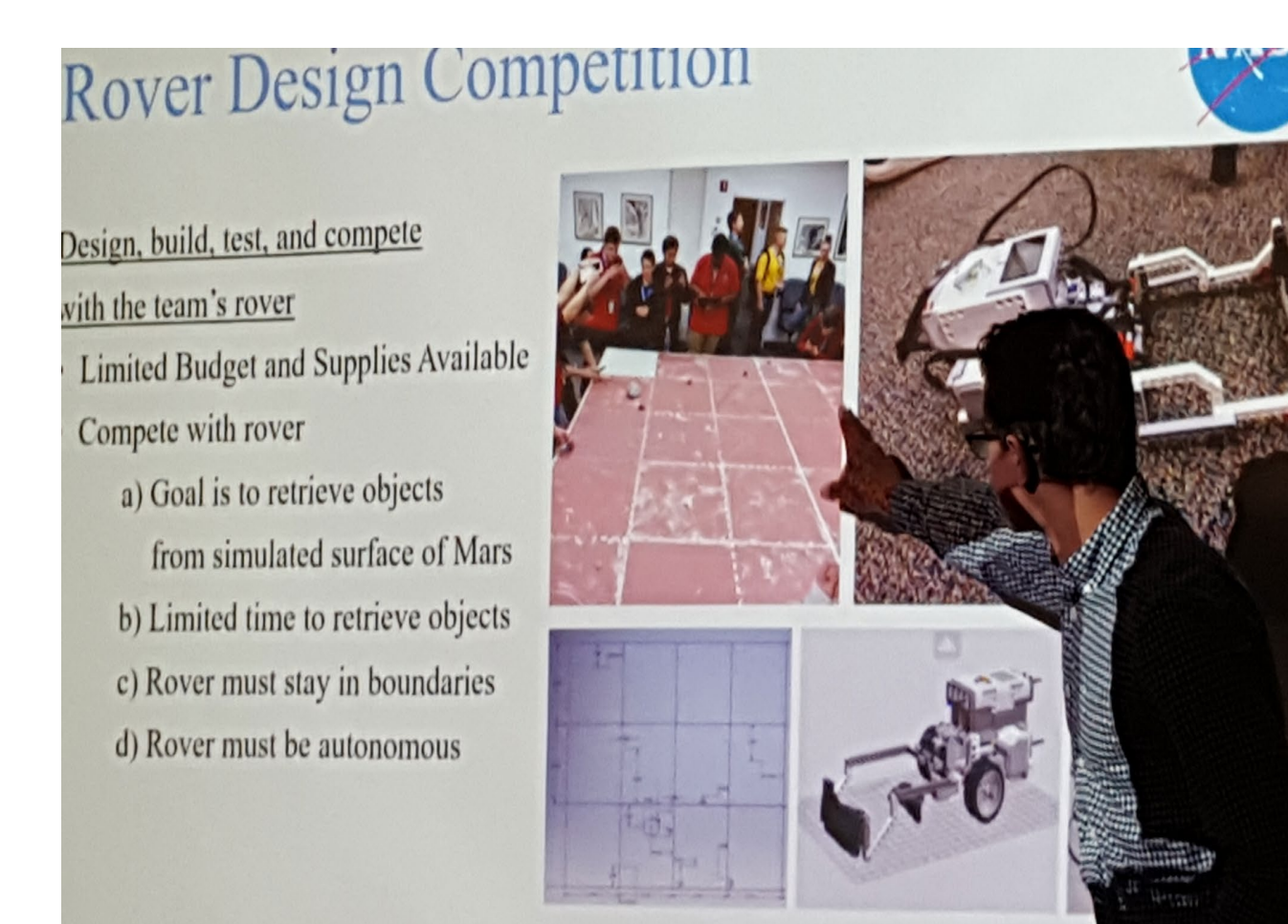
Great collaboration between students and instructors



Inspirational student speakers



Opportunity to grow



Like-minded audience

