

Information Session

Elena Kallestinova

Director, Writing and Communication Center

Eric Grunwald

Director, English Language Studies (ELS)

Amanda Cornwall

Assoc. Director, Grad Student Professional
Development

Dirk Lauinger

Postdoctoral Associate, 1st-place winner of
Research Slam 2023

Neha Bokil

PhD candidate, Runner-up and Audience Choice
winner of Research Slam 2023



Warm-up poll

Please answer these three questions:

Have you seen presentations from the MIT's Research Slam or 3MT competitions?

How confident are you in presenting your research in front of an audience?

What aspects of oral presentations give you most trouble?



Research Slam/ 3MT History

- **Original idea:** University of Queensland (UQ), 2008
- **Drought:** people encouraged to take 3-min showers; timers on shower walls
- Dean of Grad School **Alan Lawson:** *Aha!*
- **1st competition:** 160 contestants
- **2009-10:** promoted to other Australian and New Zealand universities
- **2013:** 1st international competition



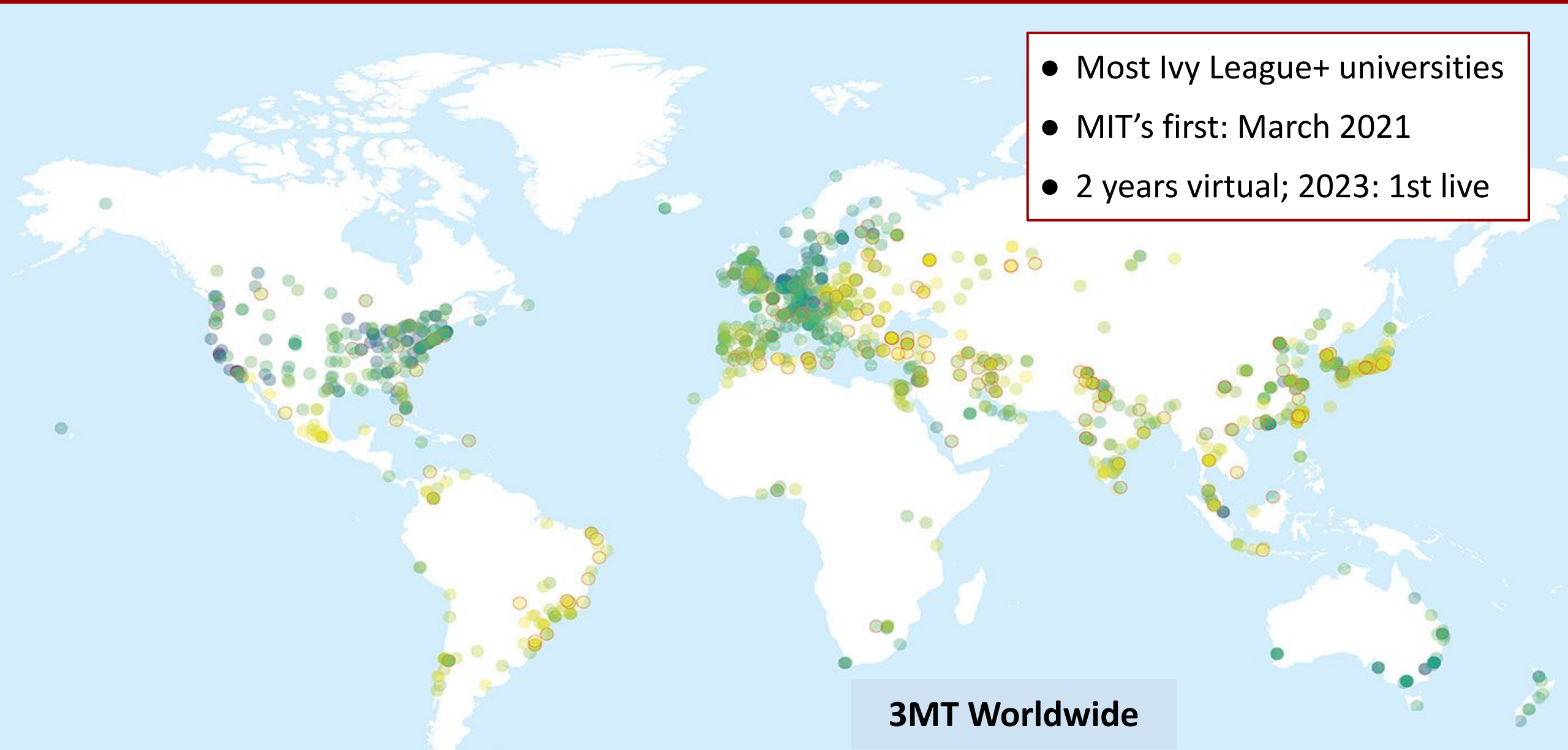
Source: The University of Queensland website:

<https://threeminutethesis.uq.edu.au/higher-degrees-researchstart-your-3mt-journey-here>

Now at over 200 universities across over 85 countries

- Most Ivy League+ universities
- MIT's first: March 2021
- 2 years virtual; 2023: 1st live

3MT Worldwide



What *is* the Research Slam/3-Minute Thesis?

A research presentation that builds on the classic “elevator pitch”

Parameters:

- Task: Explain your research to an intelligent, non-specialist audience
- Time: ≤ 3 minutes (strictly enforced)
- Slides: One only; no animations or video
- Other props: *None*

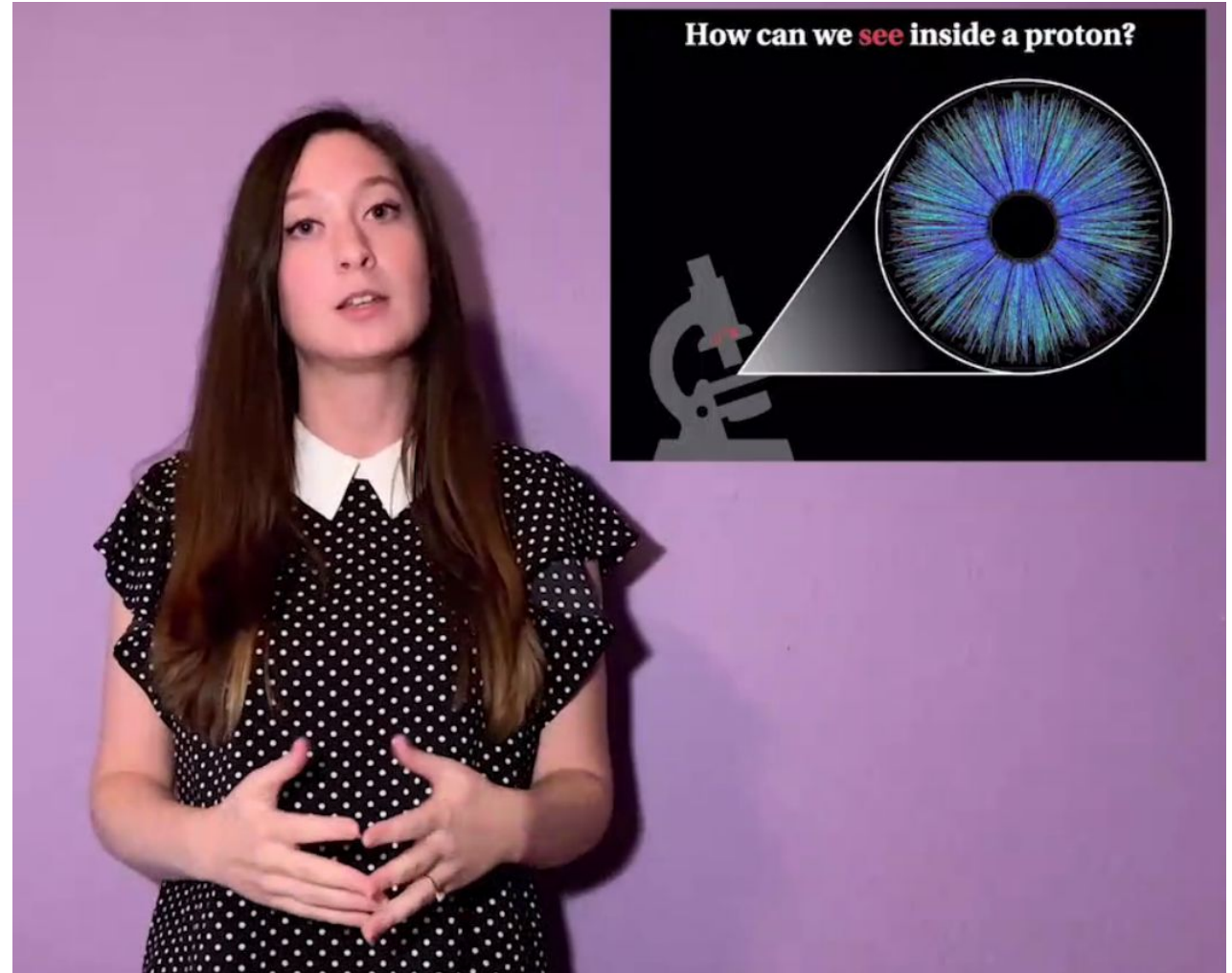


One of last year's winners...



Why You Should Participate

- Hone research communication skills.
- Create a 3-min pitch and slide that you can use in job searches.
- Practice presenting to broad audience.
- Win \$\$
- Have a chance to go on to the regionals and national competitions.



MIT's 4th Annual Research Slam is here!

The 2024 MIT Research Slam/ 3-Minute Thesis Competition



Why Call MIT's 3MT Competition a "Research Slam"?

- Both the 3MT and "Research Slam are offered by a number of universities
- Signals that competition open to postdocs & other researchers not currently working on a thesis
- Still affiliated with 3MT Program
- Follows same format & general rules.

Who Is Eligible

- all MIT (institute-wide) postdoctoral fellows and postdoctoral associates
- currently enrolled PhD candidates who've passed qualifying exams but not finished defending thesis



Prize Categories



Category	Winner	Runner-up	Audience Choice
PhD Student (3MT)	\$600	\$300	\$300
Postdoctoral Scholar	\$600	\$300	\$300

2023 Winners

Graduate Student Category: 3-Minute Thesis

Winner & Audience Choice:

Eric Wang, Institute for Medical Engineering and Science

Runner-up & Audience Choice:

Neha Bokil, Department of Biology

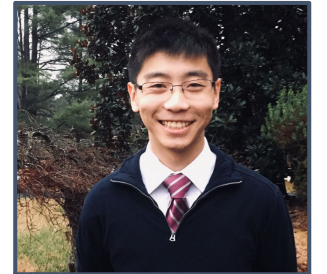
Postdoctoral Scholar Category: Research Slam

Winner:

Dirk Lauinger, Sloan School of Management

Runner-up: & Audience Choice:

Alaa Algargoosh, Media Lab



Judges from 2023



Bruce Birren, PhD

Director of the Genomic Center for Infectious Diseases, Broad Institute



Suzanne Lane

Director of the Writing, Rhetoric, and Professional Communication, MIT



Brittany Trang, Ph.D.

STAT News & Science Reporting Fellow with MIT Knight Science Journalism Program.

**MIT's 4th Annual Research
Slam is here!**

**Application
submission
process**



The Timeline: Step 1



1. Submit a simple **application form**
2. Include a pre-recorded **3-minute talk**
3. Include **a single slide** describing your research
4. Video & slide must **conform to the format of Three Minute Thesis (3MT)**
5. [Upload video and slide](#) by **Monday, March 11, 2024, 11pm**

The Timeline: Step 2

- Research Slam/ 3MT Committee evaluates all applications and chooses finalists
- Top 4-5 entries in each category are selected for the final showcase event
- Finalists notified by the end of March

The Timeline: Step 3

- Final showcase (live, in-person): **April 17, 2024, 5-7pm in E38-195 (MIT Open Space)**
- Finalists present live to panel of judges and audience
- Judges from diverse backgrounds: **academia, industry, business, science communication, and science policy**
- Event widely advertised, audience will include both **MIT community** and **general public**

Workshops

Individual Consultations

Online Resources

**MIT Resources to
Help Your Prepare**

Research Slam/ 3MT Workshops

Creating a Compelling 3-Minute Talk

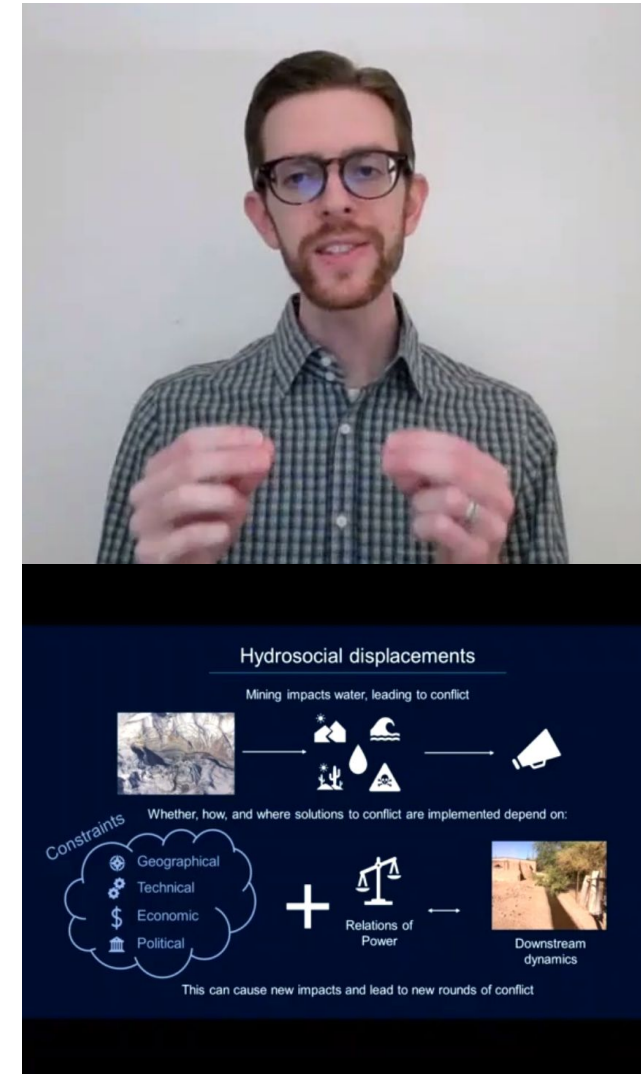
Wed, Feb 14th, 3:30-5:00pm

This interactive workshop will help you develop key skills to prepare your own talk: distilling your central message, building it into an engaging story, and crafting a visually appealing slide.

Deliver to Win: How to Present Your 3-Minute Talk Effectively

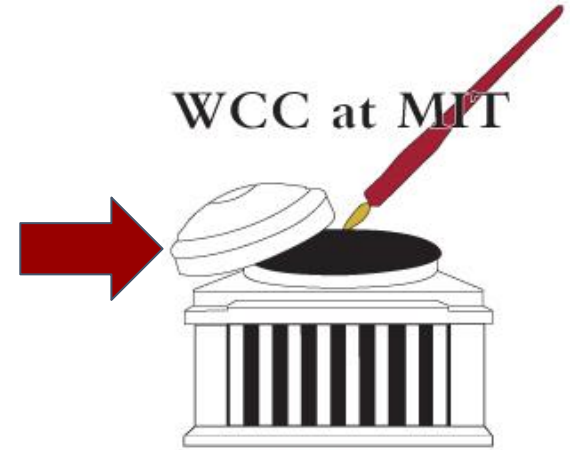
Wed, Feb 21st, 3:30-5:00pm

This activity-based workshop will help you build confidence as a presenter and will equip you with lifelong tools to deliver your ideas eloquently, engagingly, and effectively.



Individual Consultations

- **Design the script for the 3-minute pitch**
- **Work on the slide**
- **Practice your presentation**
- **Research feedback at every stage of the process**



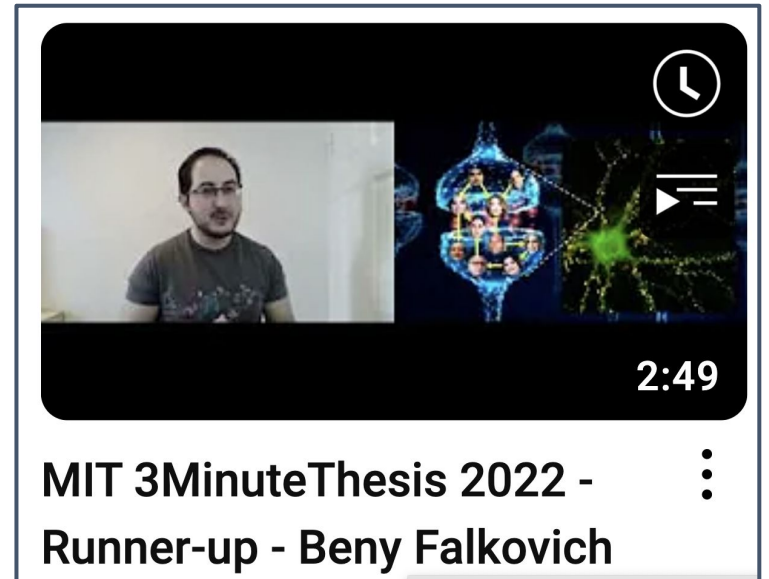
CAPD



MIT SCHOOL OF ENGINEERING
COMMUNICATION LAB

How to Create Your Video?

- Record your video using Panopto or Zoom
- Embed the slide into your video presentation
- The presenter and the slide should be equally balanced in size



How to Create Your Video?



Hyrosocial displacements
Mining impacts water, leading to conflict

Whether, how, and where solutions to conflict are implemented depend on:

- Geographical
- Technical
- Economic
- Political

Relations of Power

Downstream dynamics

This can cause new impacts and lead to new rounds of conflict.

From sandwich wrappers to superconducting qubits: Identifying the structure of the aluminum oxide-aluminum interface

We find the aluminum oxide-aluminum system in...
Wrapping foil Protective coatings in pipelines Superconducting qubits

But what is the "interface", really?

Ab initio grand canonical Monte Carlo simulations to search 1000s of potential interface structures...

gives us atomic-level detail of this fundamental interface and the resulting properties

Hydrogen accumulation at the interface



WHAT? Methane Leak Detection

WHY? - Greenhouse Gas - Explosive

WHERE? - Mines - Pipelines

OUR SOLUTION: A low-cost, distributable methane sensor

Sensor Device

Carbon Nanotubes

Catalyst

Methane to Methanol/O₂

3:10

Certifiable Perception
Research Safe and Trustworthy Autonomy

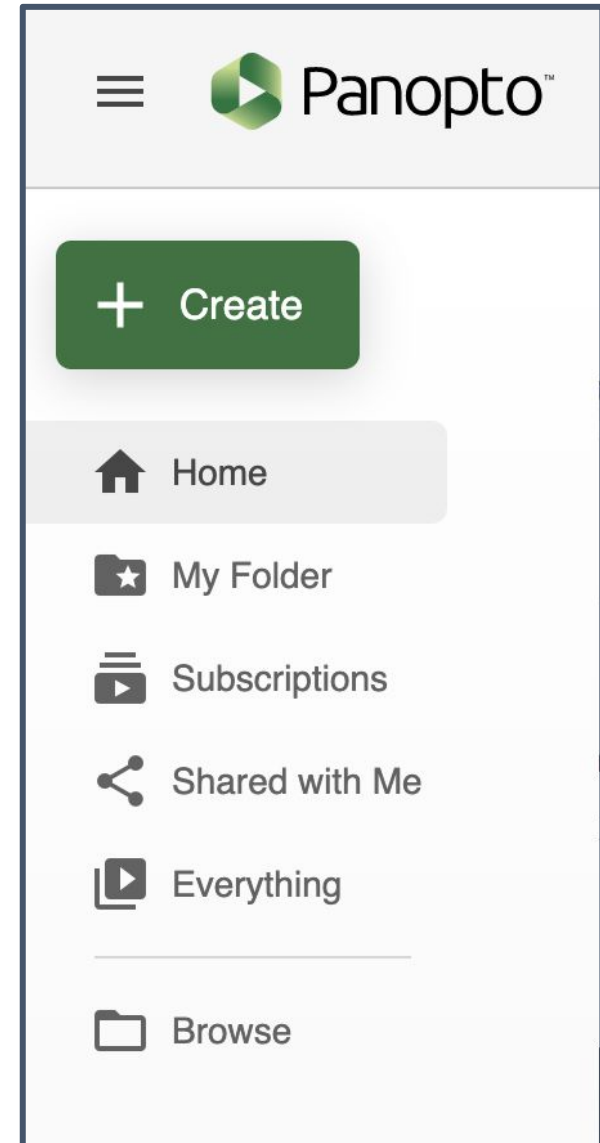
3:08

Create your Video with Panopto

MIT secure video platform for recording, sharing, and searching videos

- Study the guide and watch tutorials
- Record your video
- Edit and add your slide there
- Format and output your video

<https://tinyurl.com/PanoptoRSMIT>



Tips From MIT Winners



Dirk Lauinger,

Sloan School of Management

Postdoctoral Scholar Category:

1st Place Winner



Neha Bokil,

Department of Biology

Graduate Student Category:

Runner-up & Audience Choice

Questions to the Winners

Q 1. Why did you decide to participate in the Research Slam competition?

Q 2. How did your participation help you with professional development?

Q 3. What advice do you have for someone who has not made up their mind?

More information and past slammers' vids



<https://researchslam.mit.edu/>

We look forward to seeing you soon!

Research Slam/ 3MT Tips



Research Slam/ 3MT Common Mistakes

