



# GRADUATE RESEARCH

## IN THE SPOTLIGHT

Wednesday, March 19, 2025

[ontariotechu.ca/3mt](https://ontariotechu.ca/3mt) #OntarioTech3MT

 **OntarioTech**  
Graduate &  
Postdoctoral Studies

 **3MT**® THREE  
MINUTE  
THESIS  
FOUNDED BY THE UNIVERSITY OF QUEENSLAND

# WELCOME TO 3MT®!

## HEATS

Wednesday, March 19, 2025  
RBC Lounge (UB 1055)

Tune into the [livestream!](#)

## SCHEDULE

9:30 to 9:40 a.m.	Welcome
9:40 to 10:05 a.m.	Heat One
10:05 to 10:15 a.m.	Break
10:15 to 10:40 a.m.	Heat Two
10:40 to 10:50 a.m.	Break
10:50 to 11:10 a.m.	Heat Three
11:10 to 11:20 a.m.	Break
11:20 to 11:35 a.m.	Heat Four
11:35 to 12:15 p.m.	Judges Deliberation
12:15 p.m.	Finalists Announced
12:30 p.m.	Lunch



# JUDGING CRITERIA

## COMMUNICATION (GRADED OUT OF 100 POINTS)

- Did the presenter use language and terminology that was clear and understandable?
- Was the pace of the talk effective?
- Did the presenter use non-verbal communication (i.e. eye contact, voice modulation, body language, etc.) effectively?
- Did the slide enhance, rather than detract from, the talk—was it clear, legible and concise?

## COMPREHENSION (GRADED OUT OF 100 POINTS)

- Did the talk help you to understand the scholarly research and creativity?
- Did the presenter clearly outline the nature and purpose of the scholarly research and creativity?
- Did the presenter clearly indicate what is interesting about the scholarly research and creativity?
- Did the talk follow a logical sequence?

## ENGAGEMENT (GRADED OUT OF 100 POINTS)

- Was the talk engaging?
- Did the talk inspire you to want to know more?
- Did the presenter convey enthusiasm for their work?
- Did the presenter capture and maintain your attention?

# PRIZES

<b>WINNER</b>	<b>\$1,000*</b>
<b>RUNNER-UP</b>	<b>\$500</b>
<b>PEOPLE'S CHOICE</b>	<b>\$250</b>

\* And the chance to compete at the provincial finals to be held at Queen's University.

# PARTICIPANTS

## HEAT 1

**Akash Samantha,**  
Electrical and Computer  
Engineering (PhD)

BRAIN: Battery Reliability and AI-driven Innovation for Next-gen EVs

**Aliyat Olatinwo,**  
Kinesiology (MHSc)

Turning Voices into Choices: Shaping Age-Friendly Programs for Durham

**Spencer Hang,**  
Applied Bioscience (MSc)

How nuclear generators affect the building blocks of life in fish

**Jessica Biasin,**  
Forensic Psychology (MSc)

The Non-Linear Development of Honesty-Humility and Sensitivity to Threat

**Ruvini De Seram,**  
Electrical and Computer  
Engineering (MAsc)

Reconfigurable Multi-port Solid State Transformer for DC Fast Charging Stations

## HEAT 2

**Maykah Lochan-Aristide,**  
Kinesiology (MHSc)

"We don't even know they exist": Why Older Black Canadians Aren't Engaging in Falls Prevention Exercise Programming

**Ainaz Alavi Tabari,**  
Computer Science (MSc)

AI in the Courtroom: Exposing Vulnerabilities of Machine Learning used in Forensic Science

**Gillian Slade,**  
Kinesiology (MHSc)

The Sweet Spot: Investigating Cycle Time on Shoulder Fatigue During Fixed Overhead Workloads

**Varvara Ninowsky,**  
Forensic Psychology (MSc)

Ties That Bind: Social Closeness and Empathy in Individuals with Psychopathic Traits

**Alicia Kollaard,**  
Kinesiology (MHSc)

'Salivary Clues into the Dangers of Too Much Sitting

# PARTICIPANTS

## HEAT 3

**Jayda Hylton-Pelaia,**  
Health Sciences (PhD) - Community,  
Public and Population Health  
Enhancing Girls' Sport Participation  
through Parental Support: A Mixed-  
Methods Intervention Study to  
Develop an Evidence-Based Toolkit

**Sabrina Gallant,**  
Kinesiology (PhD) - Health Sciences  
“What is the role of the oral  
microbiome in prolonged sitting?  
You may want to sit down for this!”

**Fanqi Kong,**  
Materials Science (PhD)  
Next Generation Fuel Cell Catalysts:  
The Path Towards Sustainable Energy

**Salma Bafagih,**  
Community, Public and Population  
Health (MHSc)  
What's On Your Plate? Examining  
Predictors of Food Literacy Among  
Canadian Adults

## HEAT 4

**Alissa Latiff,**  
Kinesiology (MHSc)  
Exploring the Lived Experiences  
of Racialized Parents Who Have  
Children or Youth with Disabilities:  
A Descriptive Case Study

**Hamed Tadayoni,**  
Kinesiology (PhD)  
How Virtual Reality Shapes the Way  
We Learn Movements: Bridging  
the Gap Between Engineering and  
Neuroscience

**Melissa Handford,**  
Forensic Psychology (MSc)  
Understanding Victim Decisions to  
Report Non-Consensual Intimate  
Image Distribution

# LEARN MORE

Visit [ontariotechu.ca/3mt](https://ontariotechu.ca/3mt) to learn more about our participants, judges, 3MT® history, official rules and qualifications, and to watch videos from past competitions.

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