

AUGUST 20, 2024 • 8:00AM-2:00PM • UTM CAMPUS



SURF 2024 PROGRAM

HOSTED BY THE OFFICE OF THE
VICE-PRINCIPAL, RESEARCH AND INNOVATION



Office of the Vice-Principal,
Research and Innovation

Event Agenda

Tuesday, August 20, 2024

9:00 AM - 2:00 PM



Registration

8:00-9:00 AM

Introductory Remarks

9:00-9:15 AM

Kent Moore

Vice-Principal, Research
and Innovation

Session One - 9:15-10:15 AM

Moderated by Shaun Young, Manager of Research Administration and Operations, OVPRI

Keynote Speaker



Anna Kosovicheva, Assistant Professor, Department of Psychology

Keynote talk: Why we can't see eye to eye: Individual differences in visual perception in the lab and beyond

My research examines the visual processes that allow us to interact with the world around us, with a particular focus on understanding individual differences in visual perception and what they mean for us in our everyday lives. My work combines two main areas of research – one focused on understanding variation in fundamental visual processes and how these differences impact more complex visual judgments. A key component of this work looks at how each of our visual systems represent and update spatial information about objects in our environment. A second goal of my research is to develop and apply psychophysical tools to address real-world problems that can benefit from an individual differences approach, in areas ranging from digital readability to collaborative tasks as well as personalized assessment of visual impairments. I direct the Applied Perception & Psychophysics Laboratory, where we use a combination of psychophysics, eye tracking, and patient research to explore these questions in fundamental and applied research.

Student Rapid Talks - Session One

Exploring socio-eco-evolutionary dynamics of white clover in cities

Ruth Alemayehu | Department of Biology

Faculty Supervisor: Marc Johnson

Investigating The Role of the Ventral Anterior Cingulate Cortex in Placebo Analgesia

Maryam Fazili | Department of Psychology

Faculty Supervisor: Loren Martin

Modifying Antithetic Integral Feedback (AIF) Based on Theoretical Predictions for Enhanced Regulation and Noise Suppression in Gene Expression

Maha Jahangir | Department of Chemical & Physical Sciences

Faculty Supervisor: David McMillen

Computer Vision for Assisted Indoor Climbing

Laura Madrid | Department of Mathematical & Computational Sciences

Faculty Supervisor: Lisa Zhang

The Power of Care in Youth-Led Commoning

Celina Mankarios | Department of Geography, Geomatics, and Environment

Faculty Supervisor: Praneeta Mudaliar

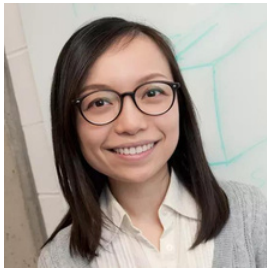
[View Abstracts Online](#)

Wellness Break - 10:15-10:30 AM

Session Two - 10:30-11:30 AM

Moderated by Shaun Young, Manager of Research Administration and Operations, OVPR

Keynote Speaker



Semechah Lui, Assistant Professor, Department of Chemical & Physical Sciences

Keynote talk: Can you delay an earthquake?

Semechah Lui is an assistant professor in CPS. She completed her Ph.D. in seismology at the California Institute of Technology and B.Sc. in geology at the University of Michigan. At UTM, she leads the Earthquake Physics Lab, which focuses on the physics and mechanics of earthquakes and faults, and their associated hazards, with the goal of developing physics-based earthquake models and methodologies that can contribute to seismic hazard mitigation and earthquake prediction.

Student Rapid Talks - Session Two

Landscape Effects on Seed Quality of a Hummingbird-Pollinated Plant

Molly McDonald | Department of Biology

Faculty Supervisor: Helene Wagner

Exploring TikTok as a Tool for Instruction and Assessment

Hokyung Moon* | Department of Sociology

Faculty Supervisor: Jayne Baker

*Presenting collaborative work, led by Hokyung Moon (Leah) with contributions from Bryce McMurtry

Are We Better at Conveying Emotions Through Speech or Song?

Saghar Tavakoli | Department of Psychology

Faculty Supervisor: Christina Vanden Bosch der Nederlanden

A platform for determining mutation rate of human oncogenes

Khue Tran | Department of Biology

Faculty Supervisor: Alex Nguyen Ba

Safety on the road is a matter of where and when you look: the impact of gaze location and blink timing

Ido Zivli | Department of Psychology

Faculty Supervisor: Benjamin Wolfe

[View Abstracts Online](#)

SpinUp Exhibitor Table - 9:00 AM-2:00 PM

Visit our exhibitor table to speak with staff from **SpinUp** — U of T's first wet lab incubator.

Poster Session - 11:30 AM-12:30 PM

Students will be at their posters to explain their research and answer questions.

Lunch & Poster Viewing - 12:30-1:45 PM

While you enjoy lunch, please continue to wander and view student posters. Please note that students may not be at their posters at this time.

Closing Remarks - 1:45-2:00 PM

For a complete list of presenters, posters, and where to find them in the IB atrium, please visit our schedule online.

[View Poster Session](#)



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