

Last updated: 13 February 2025



Day 2 Concurrent Workshops

Date: 18 March 2025

Time: 10.15am to 11.45am

- [Neuroscience, Computational Science and Artificial Intelligence in Learning](#)
- [Using Learning Analytics to Understand Students' Learning Outcomes and Processes](#)
- [Correcting Secondary School Students' Misconceptions of Climate Change](#)
- [Sexual Enslavement and Silence: The Comfort Women of the Japanese Occupation of Singapore](#)
- [Leading Powerful Conversations in Professional Learning Communities](#)
- [Developing Computational Thinking in Secondary Mathematics](#)

Workshop Details

>> Neuroscience, Computational Science and Artificial Intelligence in Learning

Venue: TBC

Synopsis

This course explores the intersection of neuroscience, computational science, and artificial intelligence in learning. It covers neural mechanisms underlying learning processes, computational models that simulate cognitive functions, and AI techniques that enhance educational practices. Participants will engage in hands-on experience with SoL tools, applying theoretical concepts to real-world challenges, ultimately gaining insights into how these fields collaboratively advance our understanding of learning.

Instructor(s)

[Dr Yuvaraj Rajamanickam](#)

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>> Using Learning Analytics to Understand Students' Learning Outcomes and Processes

Venue: TBC

Synopsis

The course focuses on the use of learning analytics for teaching and learning. It aims to help educators formulate meaningful questions about student learning, identify relevant data sources, and apply appropriate analytical methods by studying existing learning analytics used in classrooms. Participants will also learn ways to use learning analytics to inform pedagogical decisions, teaching strategies and 21CC.

Instructor(s)

[Dr Teo Chew Lee](#), [Dr Elizabeth Koh](#), [Dr Wong Lung Hsiang](#) and [Dr Katherine Yuan](#)

>> Correcting Secondary School Students' Misconceptions of Climate Change

Venue: TBC

Synopsis

This practical and timely workshop is designed to clarify prevalent climate change misconceptions among Singaporean students, based on research findings. This introductory session will provide a preview of the subsequent two-part series, which delves into diagnostic tools and practical strategies to effectively correct these misconceptions. By participating in this workshop, you will be starting on your first steps in correcting your students' climate change misconceptions.

Instructor(s)

[Prof Chang Chew Hung](#)

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>> Sexual Enslavement and Silence: The Comfort Women of the Japanese Occupation of Singapore

Venue: TBC

Synopsis

In Singapore during the Japanese Occupation, women were ripped out of their homes, their families, and their neighbourhoods by the Japanese military and sexually enslaved as 'comfort women' in military brothels. Women around the world are still being trafficked into sexual slavery. Knowing the history is a step to ending it.

Instructor(s)

[Prof Kevin Blackburn](#)

>> Leading Powerful Conversations in Professional Learning Communities

Venue: TBC

Synopsis

The quality of teacher learning in PLCs is highly dependent on the skilfulness of facilitators to lead fellow colleagues in productive conversations leading to transformative pedagogical practices. This course provides specific knowledge, practices and tools needed to bring about powerful conversations leading to transformations in teacher pedagogical practices.

Instructor(s)

[A/P Hairon Salleh](#)

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>> Developing Computational Thinking in Secondary Mathematics

Venue: TBC

Synopsis

In this short introductory workshop, computational thinking is given a domain-specific interpretation as partnership of the learner with a computing agent, for e.g., a computer in his/her endeavor to solve mathematics problems. We demonstrate how lesson tasks may be designed to help students develop computational thinking as they learn mathematics.

Instructor(s)

[A/P Ho Weng Kin](#)