Centre for Teaching Excellence

🕅 SMU

# Scholarship of Teaching and Learning

Webinar 2022

## Developments on Science of Learning in Education

The Science of Learning in Education is an interdisciplinary field that integrates insights from multiple fields including neuroscience, psychology, provide scientific technology and to а understanding of how learning occurs and to translate research evidence into education practices and strategies that promote learners' well-being, healthy development and transferable learning.



The webinar link will be emailed to you upon confirmation of your registration

In this webinar, the speakers will share developments pertaining to Science of Learning in Education at NIE which includes tri-strategic thrusts of research, teaching and community building orientations. In addition, the speakers will bring focus on the translation of Science of Learning research findings in the context of higher education. Finally, the speakers will be interested to engage the audience in discussions on possibilities and challenges of the Science of Learning interdisciplinary field, respective to one's teaching and learning context.



**Invited Speakers** 



Overview of Science of Learning,

## including Science of Learning in Education Centre at NIE and its tri-strategic thrusts

## Asst Professor Azi Jamaludin

Asst Dean, Science of Learning in Education, Learning Sciences and Assessment Academic Group, Office of Education Research, National Institute of Education, Nanyang Technological University

As a Learning Scientist, Azilawati Jamaludin conducts research in the interdisciplinary areas of Science of Learning, Games and Learning, and Educational Innovations for Learning. She has worked on large-scale Science of Learning projects funded by the National Research Foundation, to investigate why some learners continually struggle academically and if neural-informed interventions can help to remediate their learning struggles.

Apart from collecting behavioural, psychometrics, and social data, she uses portable cutting-edge brain imaging techniques (Functional near-infrared spectroscopy (fNIRS)) to collect neural data about learners' brain functions. She is also Co-Principal Investigator for multiple other projects investigating learning for at-risk students. Her research portfolio amounts to about SGD5.5M of competitive research funds, of which SGD3.34M was awarded as Principal Investigator and SGD2.2M as Co-Principal Investigator.



Overview of translating SoL research findings into the practicalities of Higher Education classroom practices

## Dr. Astrid Schmied

Education Research Scientist, Science of Learning in Education Centre, National Institute of Education, Nanyang Technological University

Astrid Schmied is an educational neuroscientist and research scientist at the Science of Learning in Education Centre, National Institute of Education, Nanyang Technological University, Singapore. Her research interests include the evolution of educational neuroscience as academic field; the teaching and learning process of neuropsychological content; the acquisition of academic and cognitive skills; and, the development of specific learning disorders (dyslexia, dyscalculia, and dysgraphia).

She also engages in programs that promote public science, scientific outreach, and education and science policy. Astrid has conducted research at governmental offices, schools and universities, and non-profits, utilizing behavioral, psychological, and neuroscientific methods. Her pedagogical practices and investigations have expanded from K-12 to university students to older adults, including interventions in socially vulnerable spaces and minorities.

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