

Mathematics & Mathematics Education Seminar

TAN MIAO YING SHEENA

PhD Student (Mathematics Education) at Simon Fraser University, Canada

Date: 14 Aug 2024 Time: 1430 – 1530 Venue: MME Journal Room (NIE 7-03-16)



An Institute of NANYANG TECHNOLOGICAL UNIVERSITY SINGAPORE

The coexistence of dialectics and dialogism in mathematics argumentation

Seminar Abstract:

The mathematical research on argumentation primarily has taken а dialectic approach which focuses understanding the logical development of reasoning in argumentation. However, this approach may have overlooked other key aspects of mathematical argumentation, including the unfolding of the meaning making experience and process – a concern that align's with a more dialogical lens. These two approaches have often been pitted against each other, but I question the value of such a comparison and also challenge the assumption that they can be distinguishable. Specifically, like to propose stratigraphic approach а in exploring how the dialectic and dialogic layers might coexist in mathematical argumentation and discuss the possible tensions that come along with their coexistence.

Biography:

of professional Sheena has six years school and experience in in teachers' professional development. She has two Masters degrees: Master in Mathematics Pure Mathematics and а Master in Educational Psychology (MEd). She is currently pursuing her PhD in Mathematics Education at Simon Fraser University in Canada. She has a strong passion for Mathematics Research (Classical and Abstract Harmonic Analysis, Measure Theory, Functional Analysis) and in Mathematics Education Research (Helping students acquire conceptual understanding and develop analytical thinking and reasoning skills through Mathematics; and building teachers' subject matter knowledge and practice in Mathematics).

Sheena was also our PGDE student (Secondary) in 2012.