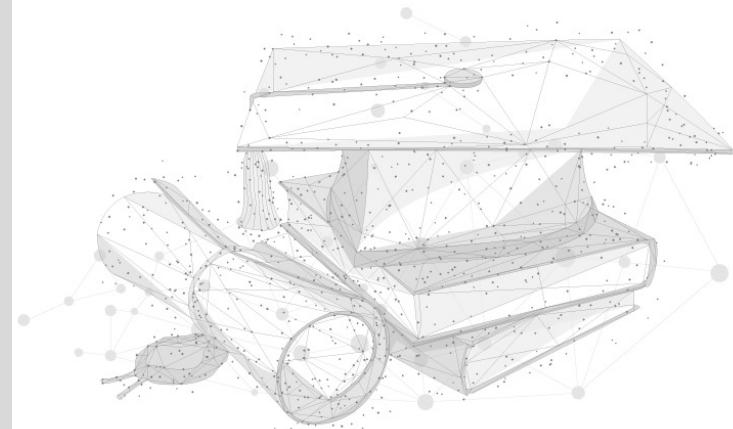


Area of Research

Learning Sciences and Assessment



 Research Domains	 Scope of Research	 Faculty Members (Potential Supervisors)
Assessment	Assessment for Learning	Assoc Prof Tan Heng Kiat Kelvin
Science of learning	Neuroscience/Neurophysiology (EEG/fNIRS) Affect (emotions) and learning	Asst Prof Farhan Ali
Science of Learning	Neuroscience, Technology and Learning Educational Neuroscience	Asst Prof Azilawati Jamaludin
Artificial Intelligence	Pedagogical and learning design, Generative AI for education AI in Education Educational data science/machine learning Big data Learning companions Pedagogical agents Intelligent tutoring systems Multimodal learning analytics Generative AI for education AI literacy Data literacy	Assoc Prof Tan Seng Chee Asst Prof Farhan Ali Asst Prof Tanmay Sinha
Blended learning	Blended synchronous learning Design of blended learning	Assoc Prof Wang Qiyun
Educational Assessment	Assessment Literacy, Ethics and fairness in AI-based assessments	Asst Prof Rasooli Amirhossein
Educational Technology and Artificial Intelligence	ICT integration, including AI	Prof Hung Wei Loong David

 Research Domains	 Scope of Research	 Faculty Members (Potential Supervisors)
Learning Sciences	Games, game-based learning, gamification	<u>Asst Prof Azilawati Jamaludin</u>
	Experiential learning Embodiment; Identity Learning innovations Design-based interventions	
	Knowledge building Computer-supported collaborative learning Teacher noticing Learning analytics Design-based interventions	<u>Assoc Prof Tan Seng Chee</u>
	Mobile learning Knowledge Building, computer-supported collaborative learning	
	Computer-Supported Collaborative Learning Mobile Learning	<u>Prof Looi Chee Kit</u>
	Computer-Supported Collaborative Learning Mobile Learning Learning analytics Design-based interventions	<u>Assoc Prof Chen Wenli</u>
	Knowledge building Computer-supported collaborative learning Student agency, self-regulation, emotion Learning Analytics Mixed methods	<u>Asst Prof Zhu Gaoxia</u>
	Socio-emotional learning Failure-driven learning Resilience Emotion regulation Scaffolding Mixed-methods analysis Design-based research	<u>Asst Prof Tanmay Sinha</u>
	Emerging technology-enabled learning innovations in schools	<u>Asst Prof Wen Yun</u>

 Research Domains	 Scope of Research	 Faculty Members (Potential Supervisors)
Technology-enhanced language learning	Computer-supported collaborative language learning Augmented Reality-supported language learning	<u>Asst Prof Wen Yun</u>
Technology-mediated learning	Teacher professional development Instructional Design	<u>Assoc Prof Choy Doris</u>
	Designing for technology-mediated learning Augmenting technology-mediated learning	<u>Assoc Prof Shanti Divaharan</u>
	Teacher professional development Instructional technologies, Teacher professional learning, mobile learning, personal learning devices	<u>Assoc Prof Tan Seng Chee</u>
	ICT integration for teaching and learning AI for education	<u>Assoc Prof Chen Wenli</u>
	Human-AI collaboration, reliance on AI STEM learning environments Interdisciplinary learning Collaborative inquiry Scaffolding	<u>Asst Prof Zhu Gaoxia</u>
	Self-directed learning Informal learning Curiosity and Interest in digital environments	<u>Asst Prof Farhan Ali</u>
21st Century Teaching and Learning	Self-directed learning, self-regulated learning	<u>Assoc Prof Tan Seng Chee</u>