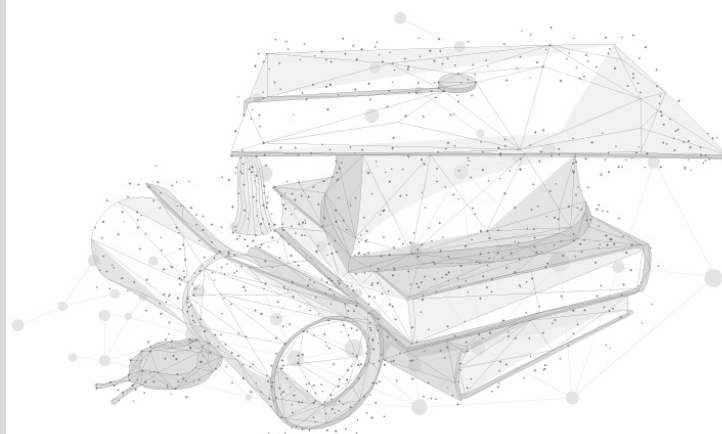








Area of Research

# Learning Sciences and Assessment



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

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

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