

Awarded Projects for the Japan – Singapore Joint Call: Japan Science and Technology Agency (JST) and Agency for Science, Technology and Research (A*STAR) 2024

S/N	Project Title	Singapore-Based Principal Investigators (PIs)	Singapore Host Institution	Partner Institution
1	Breaking Multimodal Correspondence: Crafting Safer and Fairer Multimodal AIGC	Dr Joey Zhou	A*STAR	-
2	Advancing Electrified Transportation and Intelligent Systems through Physics-Informed Machine Learning in Wireless Power Transfer	Assoc Prof Tang Yi	NTU	-
3	AI for Maritime Decarbonisation: Integrating Emerging Technologies to Vessel Navigation and Control	Asst Prof Yan Ran	NTU	A*STAR
4	Expressive and Empathetic Human-AI Interaction by Enhancing Multilingual, Multimodal Large Language Models	Dr Nancy Chen	A*STAR	-
5	AI-Driven Climate Resilient Cooling: Robust Reinforcement Learning for Mixed-Mode Ventilation	Assoc Prof Adrian Chong	NUS	-
6	Development of Resource-Efficient Foundation Models for Urban Heat Island Monitoring and Mitigation	Assoc Prof Lu Shijian	NTU	-
7	Efficient and Private Large Multi-Modal Model Training and Inference over Heterogeneous Edge-Cloud Networks	Asst Prof Lim Wei Yang Bryan	NTU	-
8	Harnessing AI for Seismic Safety and Sustainability: Advancing AI-driven Technologies in Seismic Data Analysis, Subsurface Imaging, and Hazard Monitoring	Assoc Prof Tong Ping	NTU	-
9	Federated Foundation Model with Synthetic Data	Dr Wei Qingsong	A*STAR	-
10	Development of Large-scale Language and Multimodal Models for Dynamic and Sustainable Food Planning in East and Southeast Asia	Prof Chua Tat Seng	NUS	-