

5th Tranche ERF Projects - Closed

S/N	Project Title	Principal Investigator	Host Institution	Project No
1	Environmental Sustainability Education in the Singapore school curriculum	Prof Chew Hung CHANG	NIE	ERFP 14/23 CCH

4th Tranche ERF Projects - Closed

S/N	Title of Research	Principal Investigator	Institution	Project No
1	Diffusing Education Innovations at Different Levels of the System: Perspectives from Ecological Leadership	Dr Ho Pau Yuen Jeanne Marie	NIE	OER 02/18 JH
2	Studying the Development of Computational Thinking Skills in Students' Use of Physical Computing Devices	Dr Seow Sen Kee, Peter	NIE	OER 03/18 PS
3	'In the Shoes of Another': An Exploratory Study of Immersive Technology for Social and Emotional Learning	Ast/P Tan Cheng Chye Marcus	NIE	OER 04/18 MT
4	Improving Early Number Word Learning: Examining the Role of Input	Dr Pierina Cheung	NIE	OER 05/18 PC
5	What's Your Story? Digital Storytelling as Reflective and Reflexive Practices for Teachers of Visual and Performing Arts	Dr Towndrow Phillip Alexander	NIE	OER 07/18 PT
6	Building an Evidence-Base to Support Teacher Growth: A Career-Long Perspective (Phase I)	Prof Low Ee Ling	NIE	OER 08/18 LEL
7	Preparation for Creative Transfer – From the Perspective of Developing Domain-Specific Knowledge	Dr Huang Junsong, David	NIE	OER 09/18 HJS
8	How to Bring Computational Thinking (CT) into Mathematics Classrooms: Designing for Disciplinary-Specific CT	Prof Looi Chee Kit	NIE	OER 10/18 LCK

4th Tranche ERF Projects - Closed

9	Pathways to Meaningful Careers: Understanding Successes and Challenges in the Transitions from School to Work for Singapore's ITE students	Dr Teng Siao See	NIE	OER 11/18 TSS
10	Integrating Multiliteracies into the English Language Classroom: Developing an Instructional Approach to Teach Multimodal Literacy (Critical Viewing and Effective Representing of Multimodal Texts)	Ast/P Victor Lim Fei	NIE	DEV 01/18 VL
11	WiREAD+: Augmenting The Validated Prototype Design Of A Web-based Collaborative Critical Reading And Learning Analytics Environment Towards Scalability Readiness	Dr Koh Ruilin Elizabeth	NIE	DEV 02/18 EK
12	Secondary Teachers' and Students' Experiences of Assessment Feedback	A/P Tan Heng Kiat Kelvin	NIE	OER 02/19 KTHK
13	Leisure Reading in Two Languages: Reading Habits and Preferences of Bilingual Children in Singapore	Dr Sun Baoqi	NIE	OER 03/19 SBQ
14	How physical activity and digital media use impact brain activity, cognitive, physical, emotional and psychosocial wellbeing of Singaporean children aged 4 to 5 years	Ast/P Teo Wei Peng	NIE	OER 04/19 TWP
15	The effect of problem solving first vs. explicit instruction first on mathematics learning	A/P Lee Ngan Hoe	NIE	OER 05/19 COH
16	Creating lifelong learners: Investigating metacognition as support for learning and learning transfer	Dr Lee Yong TAY	NIE	OER 06/19 TLY
17	WHOLE NUMBER AND FRACTION MAGNITUDE UNDERSTANDING IN KINDERGARTENERS	Dr Jose David Munez Mendez	NIE	OER 07/19 DMM

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18	Mindfulness and child developmental outcomes: An integrative review and implications for education	Dr Khng Kiat Hui	NIE	OER 08/19 KKH
19	Singaporean children's emotion understanding and its relations to anxiety and academic achievement	Dr Yang Yang	NIE	OER 09/19 YY
20	Understanding the role of caregiver-child pedagogical questioning in Singaporean children's school readiness and achievement	Dr Yue YU	NIE	OER 10/19 YY
21	Teacher Resilience in Singapore	A/P Fang Yanping	NIE	OER 11/19 FYP
22	Creating a Motivating School	A/P Liu Woon Chia	NIE	OER 12/19 LWC
23	Mandarin eBook App and Singaporean Children's Home Reading Quantity, Quality, and Emergent Literacy Outcomes	Dr Sun He	NIE	OER 13/19 SH
24	Building Teachers' and Students' Capacities in Student-Involved Assessment in Primary Classrooms	Dr Wong Hwei Ming	NIE	OER 14/19 WHM
25	Rethinking Stress: The Influence of Stress Mindsets on the Well-being, Resilience and School Outcomes of Adolescents	Dr Caleon Imelda Santos	NIE	OER 15/19 ISC
26	Realising Lower Secondary Thematic Science Curriculum in the Classroom: Developing Teachers' Competences in Thematic Science Teaching	Assoc Prof Kim Chwee Daniel TAN	NIE	OER 16/19 YACJ

4th Tranche ERF Projects - Closed

27	Computer-Supported Collaborative Argumentation in Social Studies and History Classrooms	A/P Chen Wenli	NIE	OER 17/19 CWL
28	Developing Science Teachers' Language Awareness to Enhance the Teaching of Disciplinary Literacy: A Study of Teachers' Lesson Enactments through the Lens of Adaptive Expertise	Dr Sun Baoqi	NIE	OER 18/19 SLH
29	Uncovering the Process and Outcome of Computer-Supported-Collaborative-Learning (CSCL) using Multimodal Learning Analytics: New Environments and Assessment for CSCL in the learning continuum	Dr Teo Chew Lee	NIE	OER 19/19 TCL
30	Biliterate Shared Book Intervention with Disadvantaged Preschoolers	A/P Viniti Vaish	NIE	OER 20/19 VV
31	CORE 3 Research Programme: Baseline Investigation of Mother Tongue Pedagogies in Singapore's Primary and Secondary Classrooms (C3MT)	Lead PI: Dr Kwek Beng Kiat, Dennis Co-Lead PI: Dr Wong Hwei	NIE	OER 21/19 KBK
32	Maker-centered Multidisciplinary Learning - Preparing Future Ready Learners In Singapore Schools for learning to learn	A/P Beng Chong TEO	NIE	DEV 01/19 TBC
33	Development of Lower Secondary Integrated Science Curriculum Packages	A/P Yew Jin LEE	NIE	DEV 02/19 LYJ
34	Teacher conceptions and practice of discussion in lower primary Social Studies	Dr Min Fui CHEE	NIE	OER 22/19 CMF
35	Meta-thinking And Meta-talk In English And Mathematics Lessons In The Primary School	Dr Sally Ann JONES	NIE	OER 23/19 SAJ

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36	Comparing students' questioning, argumentation and creative thinking in problem-centric and solution-centric STEM activities	A/P Tan Aik Ling	NIE	OER 24/19 TAL
37	Characterising the weak makerspace: How does material innovation happen in Singaporean classrooms?	Dr Lip Thye Michael TAN	NIE	OER 25/19 MTLP
38	Leveraging on augmented reality technologies for Establishment of Science Trail: An exploratory study	Ast/P Wen Yun	NIE	OER 26/19 WLK
39	Peer Power: How do Peer Relationships and Peer Network Attributes Influence Students' Academic, Motivational and Well-being Outcomes	Dr Caleon Imelda Santos	NIE	OER 27/19 ISC
40	Designing for greater authenticity in Geographical Investigations (GI) through local microclimate studies with the Internet of Things (IoT) and open-source environmental sensors	Dr Lim Yang Teck, Kenneth	NIE	OER 28/19 LYT
41	International Ipreschooler Surveillance Study Among Asians and otherS (IISSAAR): screen media use and off-screen behaviours among preschool children living in selected urban cities in some countries in Asia and elsewhere.	Prof Chia Yong Hwa, Michael	NIE	OER 29/19 MCYH
42	Building an evidence-base for teacher education: A longitudinal and cross-sectional study of the PGDE programmes	Prof Low Ee Ling	NIE	OER 30/19 LEL
43	Big Ideas in School Mathematics	A/P Toh Tin Lam	NIE	OER 31/19 BK
44	What Matters Most: Beginning and Experienced Teachers' Articulated Noticing In Physical Education through Pedagogies of Practice	A/P Tan Kwang San, Steven	NIE	OER 01/20 STKS

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45	Harnessing Positive Psychology Principles in Fostering Academic Motivation/Engagement and Wellbeing of Low-Progress Learners in Singapore	Lead PI: A/P Gregory Arief D Liem Co-Lead PI: A/P Chong	NIE	OER 06/20 GADL
46	Developing a Disinformation Response Competency Test Instrument	Dr Adrian KWEK	SUSS	DEV 03/19 AK
47	CoSIC: Developing a Pedagogical Co-Skilling Framework and Recommender System for School-Industry-Community (SIC) Partnerships	Ast/P Pee Loo Geok	NTU	DEV 04/19 PLG
48	Developing and Piloting an Assessment Tool of Daily Living Skills for Students with Special Educational Needs (SEN) in Singapore	Asst Prof Yong Hwee NAH	NIE	DEV 05/19 CM
49	Development of a Tool for decision making on subject placement in secondary schools	Dr Chua Puay Huat	NIE	DEV 01/20 CPH
50	Designing School Libraries of the Future (LOTF Study)	A/P Loh Chin Ee	NIE	DEV 02/20 LCE
51	Integrating Learning Analytics and Learning Design: Design and Implementation of Seamless Chinese Character Learning in Lower Primary Schools	Ast/P Wen Yun	NIE	OER 02/20 WY
52	Examining Teachers' Talk and Learning within Networked Learning Communities	Dr Towndrow Phillip Alexander	NIE	OER 03/20 JHPY
53	The Value of Aesthetic Experience in the Quality of Teaching and Learning Environments: Teachers' design and learning of aesthetically-infused inquiry-based learning	Dr Onishi Pamela Grace Costes	NIE	OER 04/20 PGCO

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54	Singapore funds of knowledge: A qualitative study of lower-tracked learners' literacy practices in- and out-of-school	Dr Mardiana Bte Abu Bakar	NIE	OER 05/20 MAB
55	Singapore primary and secondary students' perceptions, challenges and attainment in Chinese and Tamil composition writing: A comparative study on computer-based and paper-and-pen-based writing	Dr Wong Lung Hsiang	NIE	OER 07/20 WLH
56	An Evaluative Study on the Mother Tongue Support Programme for Mid-Primary Students	Dr Goh Hock Huan	NIE	OER 08/20 GHH
57	A sociological study of migrant parents' influences on children's education: Implications for 1.5- and second-generation immigrant students and their integration in Singapore schools	Ast/P Yang Peidong	NIE	OER 09/20 YPD
58	Understanding the Classroom Engagement of Students with Special Educational Needs: An Exploration of Measurement, Levels, and Factors	A/P Poon Kin Loong, Kenneth	NIE	OER 10/20 KPKL
59	A Follow-up of the Singapore Kindergarten Impact Project (SKIP) Cohort in Middle Childhood: Social-Emotional, Physical, Academic Outcomes and Predictors	Dr Khng Kiat Hui	NIE	OER 01/21 KKH
60	Learning about the environment: Understanding development of interest and knowledge through immersive informal learning experiences	A/P Tan Aik Ling	NIE	OER 03/21 TAL
61	Differentiated instruction to address diverse needs in the Singapore classroom	Dr Letchmi Devi d/o Ponnusamy	NIE	OER 04/21 LDP
62	Actualising Integrated STEM Lessons	Ast/P Ong Yann Shiou	NIE	OER 05/21 OYS

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63	Examining educational transitions and pathways in Singapore: From secondary to post-secondary.	Dr Chan Chee Yeen Melvin	NIE	OER 06/21 MCCY
64	Literate lives: Youth's emotive-embodied experiences of literacy	A/P Csilla Weninger	NIE	OER 07/21 CW
65	Investigating Enactments of Values Pedagogy in Two Schools in Singapore	A/P Suzanne Choo Shen Li	NIE	OER 08/21 SCSL
66	SCALE-UP: Investigating the effect of modified CCA competition format in Singapore Schools	Ast/P John Komar	NIE	OER 09/21 JK
67	Perspectives and Experiences of Transition from Early Childhood Education to Primary School in Singapore	Dr Mercy Karuniah MICHAEL	NIE	OER 10/21 NARW
68	Promoting and monitoring the cognitive engagement of online students in the blended synchronous learning environment	A/P Wang Qiyun	NIE	OER 11/21 WQY
69	Assessing and measuring the quality of screen time for Singaporean preschoolers: A mixed-method study	Dr Andrew Yee Zi Han	NTU	OER 12/21 AYZH
70	Developing Educators' Brain Literacy: BrainMap for Teacher Professional Development	Ast/P Alicia Marie Goodwill	NIE	DEV 01/21 AMG
71	Development, Implementation and Evaluation of a Multi-component Program to Increase Healthy Eating and Decrease Sedentary behaviors in Children: a pilot study	Ast/P Mary Chong Foong-Fong	NUS	DEV 02/21 MCFF

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72	Exploring Extended Reality to Enhance Practical Science & Mathematics Education	Ast/P Cheong Kang Hao	SUTD	DEV 03/21 CKH
73	AI-Stroke: An AI-powered Chinese handwriting teaching aid with instant diagnostic and predictive capabilities to address cognitive and motor-related learning difficulties via game-based engagements	A/P Yen Ching-Chiuan	NUS	DEV 04/21 YCC
74	AI-Powered Seamless Vocabulary Learning: Enhancing Learner-generated Contexts	Ast/P Wen Yun	NIE	DEV 05/21 WY
75	Designing for the nurturing of new norms of social responsibility with the Socially Responsible Behaviour through Embodied Thinking (SORBET) Project	Dr Lim Yang Teck Kenneth	NIE	DEV 06/21 LYT
76	Do Outcome Success, Gender and Motivation Influence Fundamental Movement Skills (FMS) Assessment?	A/P Burns Stephen Francis	NIE	OER 15/21 SFB
77	An investigation on PE teachers' understanding and enactment of Nonlinear Pedagogy	A/P Chow Jia Yi	NIE	OER 16/21 CJY
78	Trialing agentic curriculum making for Character and Citizenship Education: Implications for teacher professionalism	Dr Pereira Andrew Joseph	NIE	OER 17/21 PAJ
79	Orchestrating the trajectories of Student-Generated Ideas (SGIs) through teacher-student discourses	Dr Wong Lung Hsiang	NIE	OER 18/21 WLH
80	NMASTE: Network Meta-AnalysiS in Translating Educational Neuroscience Research	Ast/P Farhan Ali	NIE	OER 19/21 FA

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81	An Inquiry into Instructors' and Teachers' Perspectives and Experiences of Online Professional Learning	Dr Lee Shu Shing	NIE	OER 20/21 LSS
82	The Effects of An Information Communication and Technologies-Based Intervention Programme on Students' Learning Outcomes of Physical Education (PE) in Singapore Schools	A/P Koh Koon Teck	NIE	OER 21/21 KKT
83	Early Foundations of Place Value	Dr Pierina Cheung	NIE	OER 22/21 PC
84	Self-determination Theory (SDT): A preliminary study on developing Social and Emotional Learning (SEL) in a school community	Dr Betsy Ng Ling Ling	NIE	OER 24/21 BNLL
85	Characterising Situated Professional Learning in Schools: Contexts, Approaches and Perspectives	Dr Shu Shing Lee	NIE	OER 01/22 LSS
86	Understanding how Teachers Hybridise Differentiated Instruction in Singapore	Ast/P Tang Tang Heng	NIE	OER 02/22 HTT
87	Constructing Values – Meanings and Implications for Practice in Singapore's Pre-school Education Curriculum	Dr Pinhui Sandra Wu	NIE	OER 06/22 WPS
88	Dialogic Principles for a Research-Practice Partnership for Character Citizenship Education	Dr Andrew Joseph Pereira	NIE	OER 03/22 PAJ
89	Meta-Analyses of the Neural Networks for Reading and Mathematical Processing in Development: The Role of Executive Function	Dr Chiao-Yi Wu	NIE	OER 04/22 WCY

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90	Mechanisms underlying numeral ordering skills in children	Dr Jose David MUNEZ Mendez	NIE	OER 05/22 JDMM
91	Building an evidence-base to support teacher growth: A career-long perspective (Phase II)	Prof Ee Ling LOW	NIE	OER 07/22 LEL
92	The Singapore Student Digital Literacies Profile	Asst Prof Fei Victor LIM	NIE	OER 11/22 VLF
93	Emotional Capital and Teacher Professionalism	Dr Andrew Joseph Pereira	NIE	OER 12/22 PAJ
94	Automated Boredom Detection using Multimodal Physiological Signals	Dr Yuvaraj Rajamanickam	NIE	OER 14/22 YR
95	Teaching Pre-University Geography through Role-Play and Deep Listening: Enhancing Geographical Inquiry using Interdisciplinary Strategies for Managing Classroom Dynamics	Dr Kamalini Ramdas	NUS	OER 32/22 KR
96	Engaging Students as Feedback Partners in Singapore Schools: An Exploratory Study	A/P Tan Heng Kiat Kelvin	NIE	OER 17/22 TKY
97	Critical Affective Literacy for an Affective Teacher Professionalism	Dr Andrew Joseph Pereira	NIE	OER 18/22 PAJ
98	Teaching Mathematics Through Problem-solving: Developing a pedagogical approach for low progress students in Singapore	Asst Prof CHOY Ban Heng	NIE	OER 21/22 CBH

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99	Designing an Analytics Toolbox for Enculturating Teachers' Data-driven Mindset and Reflective Teaching Practice in Singapore Schools	Assoc Prof Choon Lang Gwendoline Quek	NIE	OER 23/22 QCLG
100	Strength based approach for children with special needs	Dr Meng Yin Eunice Tan	SUSS	OER 24/22 MYET
101	Are our children feeling good and functioning well? Examining student well-being using a multi-dimensional approach	Dr Munirah Binte Shaik Kadir	NIE	OER 28/22 MSK