

Curriculum Vitae



Jennifer Yeo

Associate Professor
Teaching and Learning Centre

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Education Qualifications

- 2009 PhD, Nanyang Technological University
- 2003 MA (Instructional Design and Technology), Nanyang Technological University
- 1992 PGDE (Secondary) with Credit, Nanyang Technological University
- 1991 BSc, National University of Singapore

Academic and Professional Experience

- 2022 - present Associate Professor, Singapore University of Social Sciences
- 2020 - 2021 Senior Lecturer, Singapore University of Social Sciences
- 2011 - 2020 Assistant Professor, National Institute of Education, Nanyang Technological University
- 2007 - 2011 Lecturer, National Institute of Education, Nanyang Technological University
- 2005 - 2007 Research Associate, National Institute of Education, Nanyang Technological University
- 2004 - 2005 Part-time Research Assistant, National Institute of Education, Nanyang Technological University
- 2001 - 2005 Part-time Tutor, National Institute of Education, Nanyang Technological University
- 2001 Adjunct Lecturer, Temasek Polytechnic
- 2000 Senior Editor, SNP Education Pte Ltd
- 1999 - 2000 Subject Head, Victoria School, Ministry of Education
- 1992 - 1998 Teacher, Victoria School, Ministry of Education

Memberships and Professional Activities

2017 - 2018	Member, NIE Educational Research Funding Programme and MOE Academies Fund Committee (OER Internal Review Team)
2016 - present	Member, Editorial Board of International Journal of Science Education
2014 - present	Associate Editor, Learning: Research and Practice
2014 - 2018	Member, Australasian Science Education Research Association, Australia
2013 - 2018	Member, European Science Education Research Association, Europe
2011 - 2021	Treasurer, East Spring Primary School Advisory Committee
2006 - 2012	Member, International Society of Learning Sciences, USA

Academic Honours and Awards

2010	Recipient, Dean's Commendation for Research, NIE
2009	Recipient, Dean's Commendation for Research, NIE
1988 - 1991	Recipient, Public Service Commission Teaching Merit Scholarship

RESEARCH SUMMARY

Key Areas of Research

- Multimodality and Meaning-making
- Constructivists' Learning Environment
- Teacher Professional Learning and Pedagogical Content Knowledge
- Practice-based work

Research Awards / Recognition

Year	Research Award / Recognition
2016	Excellence in Research Award, National Institute of Education, Singapore

Selected Publications

Journal Papers

1. Chen, W., Zhang, S., Pi, Z., Tan, J. S., H., Wen, Y., Looi, C.-K., Yeo, J., & Liu, Q. (2024). Students' appropriation of collaboration script in a networked class: An exploratory study. *Technology, Pedagogy and Education*, 33(1), <https://doi.org/10.1080/1475939X.2023.2256348>
2. Tan, K. C. D., & Yeo, J. (2022). Advancing conceptual understanding of science. *International Journal of Science Education and Teaching*, 1(2), 56-64. <https://doi.org/10.14456/ijset.2022.6>
3. Yeo, J. & Gilbert, J. K. (2022). Producing Scientific Explanations in Physics—A Multimodal Account. *Research in Science Education*, 52(3), 819 – 852. <https://doi.org/10.1007/s11165-021-10039-1>
4. Yeo, J., Lim, E., Tan, K. C. D., Ong, Y. S (2021). The efficacy of an Image-to-Writing approach to learning abstract scientific concepts: Temperature and Heat. *International Journal of Science and Mathematics Education*, 19, 21–44. DOI 10.1007/s10763-019-10026-z
5. Yeo, J., Wong, W. L., Tan, K. C. D., Ong, Y. S., & Delsierieys, A. P. (2020). Using visual representation in realising the concept of “Heat” in primary science. *Learning: Research & Practice*, 6(1), 34-50, <https://doi.org/10.1080/23735082.2020.1750674>
6. Tan, K. C. D., Yeo, J., Tan, P. H., & Ong, A. (2019). Differentiating heat and temperature: An image-to-writing approach. *Primary Science*, 160, 21-24.
7. Yamashita, S., Yeo, J., Nakanishi, K., Kojima, K., Igarashi, R., Terasawa, A., Chang, J., Toh, J., Pang, A., Ashardianto, S., & Nomura, J. (2019). Development and evaluation of GPS science lesson based on STEM model in Singapore. *Science Education International*, 30(3), 194-199.
8. Tay, S. L., & Yeo, J. (2017). Analysis of a physics teacher's pedagogical ‘micro- actions’ that support 17-year-olds’ learning of free body diagrams via a modelling approach. *International Journal of Science Education*, 40(2), 109-138.

9. Yamashita, S., **Yeo, J.**, Yuchi, R., Nakamura, Y., Yamada, M., Narimatsu, I., Hirano, Y., Lim, T. Y., Lim, C. H., Nomura, J., Oshima, R., Baba, S., & Hayashi, H., (2017). Improvement of a science lesson in Singapore based on research findings in science education: Through improvement of lesson plans, PowerPoint slides, teaching materials and worksheets. *Journal of Science Education in Japan*, 41(2), 96-106.
10. Yamashita, S., & **Yeo, J.** (2016). How should fourth grade students express and explain their thoughts about how water is heated?. *Journal of Science Education in Japan*, 40(1), 12-20.
11. **Yeo, J.**, & Tan S. C. (2014). Redesigning problem-based learning in the knowledge creation paradigm for school science learning. *Instructional Science*, 42(5), 747 – 775.
12. **Yeo, J.**, & Gilbert, J. K. (2014). Constructing a scientific explanation—A narrative account. *International Journal of Science Education*, 36(11), 1902-1935.
13. **Yeo, J.**, Tan, S. C., & Lee, Y. J. (2012). A learning journey in problem-based learning in a physics classroom. *The Asia-Pacific Education Researcher*, 21(1), 39-50.
14. Tang, K. S., Tan, S. C., & **Yeo, J.** (2011). Students' multimodal construction of Work-Energy Concept. *International Journal of Science Education*, 33, 1775-1804.
15. **Yeo, J.**, & Tan, S. C. (2011). How a group learns: Implications for collaborative work in science. *The Asia-Pacific Education Researcher*, 20(2), 231-245.
16. **Yeo, J.** & Tan, S.C. (2010). Constructive use of authoritative sources in science meaning making. *International Journal of Science Education*, 32(13), 1739-1754.
17. Tan, S. C., **Yeo, J.**, & Lim, W. Y. (2005). Changing epistemology of science learning through inquiry with Computer-Supported Collaborative Learning. *Journal of Computers in Mathematics and Science Teaching*, 24(4), 367-386.

Books

1. **Yeo, J.**, Teo, T. W., & Tang, K.-S. (Eds.). (2018). Science education research and practice in Asia-Pacific and beyond. Singapore: Springer.
2. Tan, S. C., So, H. J., & Yeo, J. (Eds.). (2014). Knowledge creation in education. Singapore: Springer.

Book Chapters

1. Yeo, J., & Tan, K. C. D. (2022). From image-to-writing: A teacher's PCK in supporting primary school students in making sense of the specialised language of science. In Seah, L. H., Silver, R. E., & Baildon, M. C. (Eds.), *The role of language in content pedagogy* (pp. 115 – 136). Springer.
2. **Yeo, J.**, & Tan, K.C.D. (2021). Science education in Singapore. In O.-S Tan, E. L. Low, E. G. Tay & Y. K Yan. (Eds.), *Singapore math and science education innovation: Beyond PISA* (pp. 00-00). Singapore, Springer.
3. **Yeo, J.**, Chen, W.L., Lee, Y.J., & Tan, T. (2021). Innovative science and STEM pedagogies in Singapore. In O.-S Tan, E. L. Low, E. G. Tay & Y. K Yan. (Eds.), *Singapore math and science education innovation: Beyond PISA* (pp. 00-00). Singapore, Springer.
4. Tan., K.C.D, & Yeo, J. (2021). Moving Research into the Classroom: Synergy in Collaboration. In O.-S Tan, E. L. Low, E. G. Tay & Y. K Yan. (Eds.), *Singapore math and science education innovation: Beyond PISA* (pp. 00-00). Singapore, Springer.
5. **Yeo, J.** (2018). Showcasing Singapore Science Teachers' Research. In J. Yeo, T. W. Teo, & K. S. Tang (Eds.), *Science education research and practice in Asia-Pacific and beyond* (pp. 151-158). Singapore: Springer Nature.

6. **Yeo, J.**, & Gilbert, J. K. (2017). The role of representations in students' explanations of phenomena in physics. In D. F Treagust, R. Duit, & H. E. Fischer (Eds.), *Multiple representations in physics education* (pp. 255-287). Cham: Springer International Publishing.
7. **Yeo, J.** (2015). Building theory-practice nexus in pre-service physics teacher education through Problem-Based Learning. In A. Walker, H. Leary, C. E. Hmelo- Silver, & P. A. Ertmer (Eds.), *Essential reading in Problem-based Learning: Exploring and extending the legacy of Howard S. Barrows* (pp. 165- 178). Indiana: Purdue University Press.
8. Tan, S. C., Yeo, J., So, H. J., Ow, E. G. J., Chai, C. S., & Teo, C. L. (2014). Knowledge creation in Singapore schools: Our journey and ways forward. In S. C. Tan, H. J. So, & J. Yeo (Eds.), *Knowledge creation in education* (pp. 283-302). Singapore: Springer.
9. **Yeo, J.** (2014). Knowledge building as a boundary object in formal/informal learning. In A. L. Tan, C. L. Poon, & S. L. S. Lim (Eds.), *Inquiry into the Singapore science classroom*. Singapore: Springer.
10. **Yeo, J.** (2014). From Problem-Based Learning to Knowledge Creation. In S. C. Tan, H. J. So & J. Yeo (Eds.), *Knowledge creation in education*. Singapore: Springer.
11. Tan, S. C, & **Yeo, J.** (2014). Implementing inquiry science with knowledge creation approaches. In A. L. Tan, C. L. Poon & S. L. S. Lim (Eds.), *Inquiry into the Singapore science classroom* (pp. 191-210). Singapore: Springer.
12. **Yeo, J.** (2014). Understanding students' conceptions of electromagnetic induction: A semiotic analysis. In C. Bruguière, A. Tiberghien & P. Clément (Eds.), *9th ESERA Conference Contributions: Topics and trends in current science education* (pp. 339-352). Dordrecht: Springer.
13. **Yeo, J.**, Lee, Y.-J. (2012). Knowledge advancement in environmental science through knowledge building. In K. C. D. Tan & M. Kim (Eds.), *Issues and challenges in science education research* (pp. 317 - 332). Dordrecht: Springer.
14. So, H. J., Lim, W. Y., & **Yeo, J.** (2010). Essential design features of online collaborative learning. In H. Song (Ed.), *Distance learning technologies, current instruction, and the future of education: Applications of today, practices of tomorrow* (pp. 230-244). Hershey: IGI Global.
15. Tan, S. C., Kim, B., & **Yeo, A. C. J.** (2010). Learning with technology: Learner voice and agency. In M. Orey, S. A. Jones, & R. M. Branch (Ed.), *Educational media and technology yearbook 2010* (pp. 117-134.). New York: Springer.
16. **Yeo, J.**, & Lee, Y. J. (2010). Situating science inquiry learning in knowledge creation metaphor of learning. In Lee, Y. J. (Ed.), *The world of science education: Handbook of research in Asia* (pp. 335-354). Rotterdam: Sense Publishers.
17. Tan, S. C., Seah L. H., **Yeo, J.**, & Hung, D. (2008). Online learning communities in K-12 settings. In J. Voogt, & G. Knezek (Eds.), *Springer international handbook of information technology in primary and secondary education* (pp. 249-266). Dordrecht: Springer.
18. **Yeo, J.**, Tan S. C., & Tang, K. S. (2008). Making sense of a, b, c's of science? A dialectics between everyday and scientific conception. In Y. J. Lee & A. L. Tan (Eds.), *Science education at the nexus of theory and practice* (pp. 25-44). Netherlands: Sense Publishing.
19. **Yeo, J.**, & Hung, D. (2007). Technology mediated problem-centered learning environments. In O. S. Tan (Ed.), *Problem-based Learning in E-learning Breakthroughs* (pp. 185-206). Singapore: Thomson Learning.

Editorials and Commentaries

1. Nielsen, W., & **Yeo, J.** (2022). Introduction to the Special Issue: Multimodal Meaning-Making in Science. *Research in Science Education*, 52(3), 751 – 754. <https://doi.org/10.1007/s11165-022-10051-z>

2. **Yeo, J.**, & Nielsen, W. (2020) Multimodal science teaching and learning, *Learning: Research and Practice*, 6:1, 1-4, DOI: 10.1080/23735082.2020.1752043
3. **Yeo, J.** (2019). Facing the Challenges of the Future of Education. *Learning: Research and Practice*, 5(1), 1-3.
4. Koh, E., **Yeo, J.**, & Hung, D. (2015). Pushing boundaries, taking risks. *Learning: Research and Practice*, 1(2), 95-99.
5. Tan, S. C., Ow, E. G. J., Chai, C. S., Teo, C. L., & **Yeo, A. C. J.** (2014). Research on education in the knowledge creation paradigm. *Educational Technology*, 54(1), 8-14.
6. **Yeo, J.** (2009). Finding science in students' talk. *Cultural Studies of Science Education*, 913-919. Netherlands: Springer.

Final Reports

1. Tan, K.C.D., **Yeo, J.**, Seah, L.H., Teo, C. L., (2024). Realising lower secondary thematic science curriculum in the classroom: Developing teachers' competences in thematic science teaching. MOE Education Research Funding Programme: Closure Report. National Institute of Education, Singapore.
2. **Yeo, J.**, Tan, K.C.D., & Tan, P.H. (2020). From images to writing: A formative assessment approach for developing understanding of abstract concepts in primary science. MOE Academies Fund: Closure Report. National Institute of Education, Singapore

Keynote Presentations

1. **Yeo, J.** (2019, Feb). Scientific explanation as a boundary object for STEM/integrated curriculum. Keynote Address, Asian & ASEAN Center for Educational Research Symposium: Educational Globalization from Asian & ASEAN, Chiba, Japan.
2. **Yeo, J.** (2017, Feb). The role of representations in producing a scientific explanation in physics. Keynote Address, 2017 Korean Association of Science Education Conference, Seoul, Korea.
3. **Yeo, J.** (2015, Jul). Making thinking visible with ICT: Meaning, multimodality, and the new media. Keynote Address, WZ ICT in Teaching and Learning Seminar 2015, Singapore.
4. **Yeo, J.** (2010, Jul). Science inquiry-based learning for the knowledge age. Keynote Address, W4 Science Teachers' Seminar 2010, Singapore.

Invited Presentations

International

1. Invited workshop entitled "Image to Writing Approach to Science Concept Learning" at Universitas Negari Yogyakarta, 7 December, 2021, Indonesia.
2. Invited presentation entitled "Image to Writing Approach to Science Concept Learning at the Primary Science Level" at the Webinar series, Better things for Better Living through Chemistry, Universitas Negari Yogyakarta, 8 October, 2021, Indonesia.

3. Invited seminar entitled “An Image-to-Writing Approach to Learning Science at the Elementary Levels” at The University of Hong Kong, 6 Dec 2019, Hong Kong.
4. Invited presentation entitled “What It Takes to Produce a Scientific Explanation in Dynamics” at the Joint Research Forum, TWINCLE seminar, 19 March 2016, Chiba University, Japan.
5. Invited presentation entitled “Producing Scientific Explanations in Physics” at Institute of Education (London), Science Education SIG seminar, 18 June 2015, London, UK.
6. Invited speaker at the international symposium on “Japanese Science Lessons from the View Point of Foreigners” at Chiba University, 29 January 2013, Chiba, Japan.
7. Invited seminar entitled “Science Inquiry-based Learning for the Knowledge Age: A Knowledge Creation Approach” at Chiba University, 24 January 2013, Chiba, Japan.
8. Invited presentation entitled “Secrets of Singapore’s High Performance in TIMSS and PISA” at Chiba University, 27 January 2012, Chiba, Japan.

Local

1. Invited workshop entitled “Using Multiple representation in the teaching of Energy” at Physics Subject Chapter Physics Learning Day, Academy of Singapore Teachers, Ministry of Education, Singapore on 12 November 2019.
2. Invited workshop entitled “Drawing as an alternative way of understanding primary school students’ conception of science” at OER-AST Assessment Seminar, Leveraging Assessment in a Differentiated Classroom on 2 September 2019.
3. Invited workshop entitled “An Image-to-Writing Approach to Learning Temperature and Heat” at Primary Science Subject Chapter Networked Learning Community, Academy of Singapore Teachers, Ministry of Education, Singapore on 27 June 2018.
4. Invited seminar “Towards a Framework of Constructing Scientific Explanation in Physics” at NIE-SNU Joint Symposium, Singapore in February 2018.
5. Invited presentation entitled “Towards the Development of Students’ Competencies in Producing Scientific Explanation in Physics” at OER 3rd Tranche Closing Symposium, Singapore in November 2017.
6. Invited presentation entitled “Meaning making and representation” at Science Education in Singapore: Where to Next? Seminar, Singapore in March 2017.
7. Invited presentation entitled “What it takes to produce a law-based and causal explanation in physics” at 2017 Physics Instructional Programme Support Group Sharing, MOE, Singapore in January 2017.
8. Invited workshop entitled “Representations to Support Science Learning” at Primary Science ST-LT Networked Learning, MOE, Singapore in March 2017.
9. Invited presentation entitled “Disciplinary literacy: What's its value and implication to pre-service teacher education” at A dialogue on the nexus of learning sciences research and practice, NIE, Singapore in November 2016.

Research Funding

Role	Year	Project Title	Amount (S\$)	Source of Grant
PI	2022 - present	Examining the Implementation of Practice-based Work Approach for the Professional Learning of Associate Faculty	240,912	WDARF
PI	2019 - 2023	Realising Lower Secondary Thematic Science Curriculum in the Classroom: Developing Teachers' Competences in Thematic Science Teaching (OER 16/19 YACJ)	340,866	NIE ERFP Tier 2
Co-PI	2017 - 2020	Assessment and visualisation of collaborative argumentation in science classroom (OER 07/17 CWL)	249,976	NIE ERFP Tier 2
PI	2016 - 2019	From Images to Writing: A Formative Assessment Approach for Developing Understanding of Abstract Concepts in Primary Science (AFR 02/15 JY)	247,410	MOE Academies Fund Tier 2
PI	2014 - 2018	Developing a framework for assessing students' construction of scientific explanations in physics (OER 13/13 JY)	248,722	NIE ERFP Tier 2
Co-PI	2013 - 2017	Examining normal academic/technical students' science learning from a sociological and cultural lens (OER 51/12 TWT)	249,980	NIE ERFP Tier 2

Role	Year	Project Title	Amount (S\$)	Source of Grant
PI	2012 - 2015	Designing a physics curriculum for developing students' science competencies (OER 11/11 JY)	99,431	NIE ERFP Tier 1
PI	2009 - 2012	Understanding the development of students' abstract concepts in Electromagnetic Induction using visualization-based instruction (OER 13/08 JY)	98,538.71	NIE ERFP Tier 1
Co-PI	2008 - 2011	Making meaning of environmental science through Computer-Supported Collaborative Learning (R8019.735.ES08)	197,134	NIE Learning Sciences Lab (LSL) Grant Tier 2

Start-up Grants

Role	Year	Project Title	Amount (S\$)	Source of Grant
Co-PI	2013 - 2014	Understanding pre-service teachers' physics disciplinary literacy and 21st century competencies through a science apprenticeship model (SUG 10/13 RSR)	No specific amount managed (20,000)	OER Start-up Grant

TEACHING SUMMARY

Teaching Awards / Recognition

Year	Teaching Award / Recognition
2023	Teaching Excellence Award (<i>Singapore University of Social Sciences</i>)
2016	Silver award under the <i>category of Natural Science</i> for innovatively synthesising insights from problem-based learning with open-source platforms like Google Site to improve instructor competency for pre-service physics teacher education. (The Wharton School – SEI Center at the University of Philadelphia, and QS Quacquarelli Symonds at the QS Stars Reimagine Education Awards 2016 held during the 2016 Reimagine Education Conference)
2016	<i>Bronze award for Teaching Delivery</i> for introducing theory-practice nexus in pre-service physics teacher education through Problem-based Learning (The Wharton School – SEI Center at the University of Philadelphia and QS Quacquarelli Symonds at QS Stars Reimagine Education Awards 2016)
2015	<i>John Cheung Award for Social Media</i> (<i>Nanyang Technological University</i>)

Courses Taught (in SUSS)

Course Code	Course Title	Academic Year	*Course Level
<i>Master Programme</i>			
ADL 564	Coaching and Mentoring: Practice & Applications	AY 2021 and 2022	PG
BXL 642	Innovative Design, Facilitation and Assessment of Learning	AY 2022 and AY 2023	PG
WSX 551	Teaching and Assessing Adult Learners	AY 2022	PG

Course Code	Course Title	Academic Year	*Course Level
WSX 552	Designing Courses for Adult Learners	AY 2023	PG
<i>Teaching Support for Faculty and Associate Faculty (Teaching & Learning Centre Courses)</i>			
AD 110	Beginning Faculty Forum	AY 2021 and AY 2022	IS
AD 182	Orchestrating Dialogic Talk	AY 2023 and AY 2024	IS
<i>Learning Support for Students (Teaching and Learning Centre Courses)</i>			
SDW 221	Digital Literacies	AY 2021	IS

*UG: Undergraduate; PG: Post-graduate; IS: In-service

SERVICE SUMMARY

Service Awards / Recognition

Year	Award
2018	“Partner of Academy of Singapore Teachers” Award, in recognition of the well-received and positive impact on teachers for the sharing of “An image-to-writing approach to learning temperature and heat” at the Networked Learning Community Session
2017	“Partner of Academy of Singapore Teachers” Award, in recognition of the well-received and positive impact on teachers for the sharing of “Representations to support science learning” at the Primary Science Chapter ST-LT Networked Learning Session
2012	Nanyang Award (Team) for contribution as member of International Biology Olympiad (IBO) Organising Committee

Consultation and Executive Experience

Period of appointment	Role
2020 - present	Author, Primary Science Textbook, Ministry of Education, Singapore
2018	Consultant for E1 Cluster on “Developing Pedagogical Content Knowledge (PCK) for Formative Assessment”
2017	Keynote speaker, E3 Cluster Networked Learning Community Sharing Session, Ministry of Education, on 29 March 2017
2017 – 2020	Member, MOE Science Curriculum Full Term Review – Syllabus and Resource Development Committee for Secondary Physics
2017	Invited Speaker, AST ST-LT Sharing Session for Primary Science on 6 March 2017
2016	Invited Speaker, Science Inquiry in Action Networked Learning Community on 31 March 2016
2015	Consultant, Creation of Problem-based Learning supported by Knowledge Forum for Primary Science @Fuhua Primary School
2015	Consultant, West Zone Info-Communications Technology Community of Practice (WZ ICT COP) in Primary Science
2014	Consultant, GP-AP Programme for Gongshang Primary School
2012 – 2014	Member, Ministry of Education (Singapore)’s Physics Taskforce for Prototyping Curation of Online Resources
2012	Member, Organising Committee of International Biology Olympiad (IBO)
2011 – present	Member, Physics Subject Chapter, Ministry of Education
2010 - 2012	Member, MOE physics curriculum review

Singapore University of Social Sciences

Period of appointment	Role
<i>University level</i>	
2022 - present	Member (SUSS Institutional Board)
2021 – 2022	Review of SUSS Education (RoSE)
2021 – present	Member (Expansion and Internationalisation of Online Learning Programmes Strategic Plan Project)
2021 - present	Member (Use Immersive Technology in Pedagogy Strategy Plan Group)
2020	Secretariat (Taskforce to Identify Synergies/Collaboration between SUSS and IAL)
<i>Teaching & Learning Centre level</i>	
2024	Programme sub-committee chair (SUSS Scholarship of Teaching and Learning Symposium 2024)
2020 - 2023	Faculty lead (Fundamentals)
2020 - present	Faculty lead (Educational Research and Scholarship of Teaching and Learning)

Academic Community

Period of appointment	Role
2024 - present	Lead for Workstream 2: Educational Models (Cyber-physical Learning Alliance)
2024	Reviewer (Linguistics and Education – 1 manuscript)
2019	Reviewer (Springer book proposal – Learning from viewing and creating animations in school science by Len Unsworth)
2019	Reviewer (Journal of English for Academic Purposes – 1 manuscript)

Period of appointment	Role
2018	Reviewer (Designs for Learning – 1 manuscript)
2018	Co-organiser (Multimodality in Science Education Seminar @ISEC 2018)
2017 - 2018	Reviewer (Science Education – 1 manuscript)
2016 – present	Member (Editorial Board of International Journal of Science Education)
2015	Reviewer (Singapore Millennia Foundation – 1 grant proposal)
2014 – present	Associate Editor (Editorial Board of Learning: Research and Practice)
2012 – present	Reviewer (International Journal of Science Education – completed 57 reviews)
2012 – present	Reviewer (International Journal of Science and Mathematics Education – completed 9 reviews)
2012	Consultant (TWINCLE project, Chiba University)
2010 – present	Reviewer (Research in Science Education – completed 18 reviews)
2009 – present	Reviewer (International Journal of Computer-supported Collaborative Learning – completed 6 reviews)

Ministry of Education (Singapore)

Period of appointment	Role
2020 - 2024	Author (Primary Science Textbook – Physics topics, for CPDD)
2017 – 2020	Member (MOE Science Curriculum Full Term Review – Syllabus and Resource Development Committee for Secondary Physics)
2018	Consultant (AST Networked Learning Community for Primary Science on 27 June 2018)
2018	Instructor (Workshop on Image-to-writing approach for temperature and heat @St Stephen's School)

Period of appointment	Role
2018	Instructor /Consultant (Workshop on “Developing Pedagogical Content Knowledge (PCK) for Formative Assessment” for E1 Cluster)
2018	Instructor (Workshop on “Developing Pedagogical Content Knowledge for Formative Assessment” for Poi Ching Primary School)
2018	Instructor (Workshop on “Multiple Representations in Teaching Primary Science” for E3 cluster)
2017	Moderator of keynote address (Physics Education Seminar 2017 on 6 Nov 2017)
2017	Instructor (Workshop on Dialogic Talk @Qifa Primary School)
2017	Keynote speaker (E3 Cluster Networked Learning Community Sharing Session on 29 March 2017)
2017	Speaker (AST ST-LT Sharing Session for Primary Science on 6 March 2017)
2016	Speaker (Sharing on “Science Journal Practices @Cedar Primary School on 11 February 2016))
2016	Instructor (Workshop on Developing Conceptual Understanding in Science through Dialogic Talk @Singapore Chinese Girls’ School)
2016	Speaker (Science Inquiry in Action Networked Learning Community on 31 March 2016)
2016	Instructor (Workshop on Improving Students’ Thinking and Reasoning and Explaining Skills Through Representations @Lakeside Primary School on 13 April 2016)
2015	Consultant (Creation of Problem-based Learning supported by Knowledge Forum for Primary Science @Fuhua Primary School)
2015	Consultant (West Zone Info-Communications Technology Community of Practice (WZ ICT COP) in Primary Science)
2015	Instructor (Workshop on Action Research at School Science Technology, Singapore)
2014	Instructor (Invited workshop on Teaching Physics through Argumentation @Catholic Junior College)

Period of appointment	Role
2014	Instructor (Workshop on West Cluster teachers on Problem-based Learning Approach)
2014	Consultant (GP-AP Programme for Gongshang Primary School)
2012 – 2014	Member (Ministry of Education (Singapore)'s Physics Taskforce for Prototyping Curation of Online Resources)
2011 – 2020	Member (Physics Subject Chapter)
2011 – 2021	Treasurer (East Spring Primary School Advisory Committee)
2010 - 2012	Member (MOE physics curriculum review)

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