

## Curriculum Vitae: TAN Aik Ling

### 1. Personal Details

- a. Name: Dr TAN Aik Ling
- b. Title: Associate Professor
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### 2. Current Position

- Assistant Dean, Professional Development, Office of Graduate Studies and Professional Learning, National Institute of Education
- Associate Professor, Natural Sciences and Science Education, National Institute of Education

### 3. Employment History

Assistant Dean (Professional Development) – Office of Graduate Programmes and Professional Learning, National Institute of Education	Jul 2014 to present
Associate Professor (Science Education), National Institute of Education, Nanyang Technological University	Mar 2013 to present
Assistant Professor (Science Education), National Institute of Education, Nanyang Technological University	Jan 2007 to Feb 2014
Teaching Fellow (Seconded), National Institute of Education, Nanyang Technological University	2005 to 2006
Subject Head (Senior Education Officer), River Valley High School	1999 to 2004
Teacher (General Education Officer), River Valley High School	1994 to 1998

### 4. Academic Qualifications

Ph.D. (Science Education)	Nanyang Technological University	2006
M Ed.	University of Sheffield	1998
Post-Graduate Diploma in Education (Secondary)	National Institute of Education, Nanyang Technological University	1994
Bachelor of Science	National University of Singapore	1993

### 5. Research interests

- Classroom interactions in science learning
- Science teacher professional development
- Teaching science as a form of inquiry
- Emotions and noticing in science learning

## 6. Publications

[Dr Tan Aik Ling has edited 2 scholarly books, 20 chapters, 35 journal articles and given 4 keynote speeches to date. Below are just some representative work.]

1. Tan, A.-L., Jocz, J., & Zhai, J. (2015). Spiderman and Science: How students' images of scientists are shaped by popular media. *Public Understanding of Science*, DOI:10.1177/0963662515615086(in press), 1-11.
2. Zhai, J., & Tan, A.-L.\* (2016). Roles of teachers in orchestrating learning in elementary science classrooms. *Research in Science Education*, 45(6), 907-926.
3. Lin, T.-J., Tan, A.-L.\* , & Tsai, C.-C. (2013). A cross-cultural comparison of Singaporean and Taiwanese eighth graders' science learning self-efficacy from a multidimensional perspective. *International Journal of Science Education*, 35(7-8), 1083-1109.
4. Tan, A.-L., & Hong, H. Q. (2014). Learning science in high school: What is actually going on?. *International Journal of Science Education*, 36(4), 677-692.
5. Tan, A.-L., & Leong, W. F. (2014). Mapping curriculum innovation in STEM schools to assessment requirements: Tensions and dilemmas. *Theory into Practice*, 53(1), 11-17.

## 7. Patents filed

- NIL

## 8. Professional Awards

- Most read article through 2014 from Routledge Education Journal - Research in Science, Mathematics, Physical and Environmental Education.
- Emerald Literati Network, Advances in Research on Teaching, 2015 Outstanding Author Contribution Award for the paper "Science Teacher Education and Science as Inquiry: Promises and Dilemma."
- NIE Excellence in Teaching Commendation Award 2015.
- Nanyang Awards 2013 (Teamwork) – International Biology Olympiad 2012
- NARST International Committee Scholarship 2011
- Awarded Fulbright Visiting Researcher Program in 2010/11 to Cornell for collaboration with A/P Barbara Crawford. The title of the research is "Learning about the environment across the lands: A comparative study into the resources used to learn about the environment in the United States and Singapore."
- Commendation for Excellence in Teaching Award in 2009 and 2010.

## 9. Research Outcomes

A/P Tan has been active in seeking competitive educational grants; she has been awarded more than \$1.4M funding in total as a Principal Investigator and co-Principal investigator. These research projects delve into science teaching and learning as well as science teacher professional development. She has published 35 academic papers in peer-reviewed journals, 20 chapters in academic books, 16 conference proceedings. In addition, he contributed to 63 conference presentations and presented as a keynote speaker in 4 international conferences. She was the lead editor for the academic book "Inquiry into the Singapore science classroom: Research and practices" published by Springer in 2014. As of March 2018, her total citation count was 592 and h-index was 14, according to Publish or Perish.