

## **Curriculum Vitae**

### **PERSONAL INFORMATION**

Name: Pongprapan Pongsophon

Gender: Male

Religion: Buddhism

Position: Associate Professor of Science Education

Nationality: Thai

Language: Thai and English

Date of Birth December 17, 1979

Affiliation: Division of Science Education, Department of Education, Faculty of Education, Kasetsart University, Bangkok, Thailand

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### **QUALIFICATION**

Post Doctoral Training in Science Education, University of Missouri, Columbia, USA under the supervision of Assoc. Prof. Benjamin Herman, University of Missouri, Columbia, Missouri, USA

Post Doctoral Training in Science Education, University of Arkansas, USA under the supervision of Prof. William F. McComas, University of Arkansas, Fayetteville, Arkansas, USA

Ph.D. (Science Education, minor Biology: Botany), Kasetsart University (PSMT Scholarship from the Institute for the promotion of Teaching science and Technology)

B.Ed. (General Science and Biology) 1<sup>st</sup> Class honor, Chulalongkorn University

### **RESEARCH INTEREST**

Nature of Science, Biology Education, the Application of Structural Equation Modeling in Science Education Research, Psychometrics, Hierarchical Linear Modeling.

## CURRENT PROJECTS

The Validation of a Causal Model of Morality in Science (Genetics Dilemma) Model

The Validation of a Multilevel Structural Modeling of Inculcation of Environmental Consciousness to Conserve Plant Genetics Conservation in RSPG's Gardening Program.

Multilevel analysis of classroom and student factors influencing science achievement in TIMSS 2015 in 12 countries.

## HONORS AND AWARDS

Outstanding Research Awards (2017), Faculty of Education, Kasetsart University

## AD-HOC JOURNAL MANUSCRIPT REVIEWER

Kasetsart University Journal (Social Science)

Chulalongkorn University's the Online Journal of Education (OJED)

Journal of Education Khon Kaen University

## CONFERENCE PROPOSAL REVIEWS

NARST international conference (2018)

ISET international conference (2015-Present)

KU national conference (2014-present)

## REFEREED JOURNAL ARTICLES

Kumnuanek O., **Pongsophon P.**, and Arunyawat, U. (2018). High School Students' Sensitivity and Judgement on the Issue of Modern Biotechnology. *Research Unit on Science, Technology and Environment for Learning*. 9(1): (January-June). (In Thai). **TCI (Group 1), In press**

**Pongsophon, P.** & Herman, B. (2017). What Determines the Practices of Inquiry-Based Teaching in High-Performing Countries According to TIMSS 2011. *International Journal of Science Education*. 39 (10), 1304-1325 (DOI: 10.1080/09500693.2017.1328620). **Social Science Citation Index, Scimago (Q1), Scopus**

Piriyawat, K., **Pongsophon, P.**, Jantrarotai, P. (2017). Multiple-Case Studies: Perceptions of Lower Secondary School Science Teachers in regard to Technological Pedagogical Content Knowledge (TPACK) and Teaching Practices in Opportunity Expansion Schools. *Journal of Research Unit on Science, Technology, and Environment for Learning*, 8 (1), 141-171. (in Thai) **TCI (Group 1)**

Jituafoa, A., **Pongsophon, P.**, Visetson, S, & Kanchanawarin, C. (2015). Pre-Service science teachers' understanding of nature of science and ability to integrate nature of science into teaching. *Kasetsart Journal - Social Sciences*. 36. 308-321. (in Thai) **Scopus**

- Pongsophon, P.** (2015). A Multilevel Analysis of Student and School Factors Influencing Primary Students' Science Achievement in TIMSS 2011 in East and South-East Asian Countries, *International Journal of Science Educators and Teachers*. 1 (1) 41 -54.
- Pongsophon, P.** (2014). A Multilevel Analysis of Factors Affecting Thai Students' Science Performance on TIMSS 2011, *Journal of Research Methodology*. 27 (1) 49-80 **TCI (Group 1)**
- Pongsophon, P.** (2013). The Effect of Selected Higher-Order Human Values and Environmental Knowledge on Thai High School Students' Environmental Attitude, *Journal of Research Methodology*. 26 (2), 145-167 (in Thai). **TCI (Group 1)**
- Pongsophon, P.** (2010). Using process drama to enhance pre -service teachers' understanding of science and religion, *Cultural Studies of Science Education*. 5 (1) 141-156. **Scimago Q1, Scopus**
- Jituaflua, A., Techapinyawat, S., **Pongsophon, P.**, Srita, S. (2010). Investigating grade 12 students' pre-conceptions in the topic of plant responses Songklanakarin Journal of Social Sciences and Humanities, 16 (4) ,629-642. (in Thai) **TCI (Group 1)**
- Pongsophon, P.**, Yutakom, N. & Boujaoude, S.B. (2010). Promotion of scientific literacy on global warming by process drama. *Asia-Pacific Forum on Science Learning and Teaching*. 11 (1), article 4. **Scopus**
- Pongsophon, P.** (2007). Reading -To-Learn science: the perspective of Thai science student teachers, *Kasetsart Journal (Social Sciences)*. 28 (3) 351-356. **Scopus**

#### **REFEREED PRESENTATIONS (FIRST & CORRESPONDING AUTHOR ONLY)**

- Pongsophon, P.** & McComas, W.F. (2018, accepted). Validating a Causal Model of Moral Obligation for Plant Conservation in a Nationwide Garden-based Education Program among High School Students in Thailand. Presented at International Science Education Conference 2018 on June 19-21, National Institute of Education, Singapore.
- Pongsophon, P.** & Herman, B. (2018). Contextual factors that influence TIMSS 2015 biology, chemistry, physics performance in twelve diverse countries. Paper presented at National Association for Research in Science Teaching (NARST) Conference 2018 on March 10-13, Atlanta, GA, USA.
- Pongsophon, P.** & Herman, B. (2018). The Pivotal Role of Academic Collaborations in Boosting Confidence in Teaching Inquiry and Inquiry Enactment. Paper presented at National Association for Research in Science Teaching (NARST) Conference 2018 on March 10-13, Atlanta, GA, USA.
- Pongsophon, P.** (2018). The Validation of Multilevel Structural Equation Modeling of Moral Obligation to Conserve Natural Resource under Garden-based Education Program, the

Royal Initiative of Her Royal Highness Princess Maha Chakri Sirindhorn. Paper presented Kasetsart University Annual Conference 2018 on Jan 30 – Feb 2, Bangkok, Thailand.

**Pongsophon, P. & Herman, B.** (2018, accepted). What Determines Inquiry Teaching Practices in High-Performing Countries? Association for Science Teacher Education International Conference 2018 on January 3-6, Baltimore, MD, USA.

**Pongsophon, P.** (2016). The Royal-Initiated Botanical Garden in School Program to Raise Awareness of Conservation of Plant Genetic Resources: A Multisite Case Study. Presented at 2016 HU-SNU-NTNU-KU Joint Symposium on December 7-10. College of Education, Seoul National University, Seoul, South Korea.

**Pongsophon, P.** (2016). Pre-Service Biology Teachers' Understanding and Reasoning about GMOs Issues. Presented at The 42nd Congress on Science and Technology of Thailand (STT 42) on November 30 – December 2, 2016, Central Lad Prao, Bangkok, Thailand.

**Pongsophon, P.** (2015) Multilevel Factors Influencing Grade 8 Students' Science Achievement in Asian and ASEAN Countries. Paper presented at The 3rd International Conference for Science Educators and Teachers, Bangkok, Thailand

**Pongsophon, P.** (2013) A Model of the Adoption and Integration of ICT into Science Teaching: an SEM approach, Paper Presented at Proceedings ICQA 2013 International Conference on QA Culture: Cooperation or Competition, Bangkok, Thailand

**Pongsophon, P.** (2012) Developing Science Teachers' Understanding Nature of Science through New York Time's Scientist at Work Science Blogs, Paper Presented at the International e-Learning Conference 2012 (IEC2012): "Smart Innovations in Education and Lifelong Learning", Bangkok, Thailand.