



Soonthareeya Sanium

PERSONAL INFORMATION

Place: 144/80 M.17 Suebsiri Rd., Mueanpak, Pakthongchai, Nakhonratchasima, 30150

Phone: 080-9563614

Email: Soonthareeya.sanium@gmail.com

Date of Birth: January **22th**, 1991

Teacher license: No.63209000718372

INTERESTS

- Science teaching and learning (*General Science*)
- Teaching methods
- Educational psychology
- Guidance psychology
- Metacognition in teaching process
- Innovative teaching and learning methods from science educational (practical) and psychological (theoretical)
- Integration to improve teaching and learning
- Research methods in education

ACADEMIC POSITION

2023 - Present Lecturer at School of Integrated Science, Kasetsart University, Thailand

EDUCATION

- 2018 – 2022** Doctor of Philosophy (Ph.D.) (Science and Technology Education),
Institute for Innovative Learning, Mahidol University, Thailand
Scholarship: Royal Golden Jubilee (RGJ) Ph.D. program Congress 19 from the Thailand Research Fund (TRF) and National Research Council of Thailand (NRCT)
- 2010 - 2016** Bachelor of Education (B.Ed.) (First Class Honors) in Guidance Psychology,
Srinakharinwirot University, Thailand

INTERNSHIP AND TEACHING EXPERIENCES

- 2014 Interned at Bodindecha (sing singhaseni) school.
- 2014 Interned at WatraikhingWitaya school.

THESIS

Postgraduate Thesis:

2022 THE DEVELOPMENT OF METACOGNITIVE COURSE FOR UNDERGRADUATE PRE-SERVICE SCIENCE EDUCATION TEACHERS

Undergraduate Thesis:

- 2014 “The effect of Group Counseling to encourage the Self-Confidence in 6th secondary education level student at Watraikhingschool (Nakhornprathom province), academic year 2014.”
- 2014 “A study of desirable characteristics of guidance teacher as attitude by bachelor’s degree student. Case study: in Guidance Psychology at Thaksin University, academic year 2013 (Songkla District)”
- 2013 “A study of value of the student practice in 4thsecondary education level at Bodindecha (Sing Singhaseni) school, academic year 2013.”

PUBLICATIONS

- 2023 Precharattana, M., **Sanium, S.**, Pongsanon, K., Ritthipravat, P., Chuechote, S., Kusakunniran, W. (2023) Blended Engineering Design Process Learning Activities for Secondary School Students during COVID-19 Epidemic: Students’ Learning Activities and Perception. *Educ. Sci.* 13 3(2), 159; <https://doi.org/10.3390/educsci13020159>. (Published) **Q2**
- 2022 Aung, Z. H., **Sanium, S.**, Songsaksuppachok, C., Kusakunniran, W., Precharattana, M., Chuechote, S., Pongsanon, K., & Ritthipravat, P. (2022). Designing a novel teaching platform for AI: A case study in a Thai school context. *Journal of Computer Assisted Learning*, 1–16. <https://doi.org/10.1111/jcal.12706> AUNG ET AL. (Published) **Q1**
- 2022 **Sanium, S.**, Buaraphan, K. (2022). Developing a Coding Scheme for Preservice Science Teachers’ Metacognition in a Method Course. *Sustainability*, 14(9) :5644. <https://doi.org> (Published) **Q1**
- 2021 **Sanium, S.**, Buaraphan, K. (2021, 7–9 July). Designing a Method Course for Developing Pre-service Science Teachers’ Metacognition and Pedagogical Content Knowledge for Teaching with Metacognition. In *Proceeding from the 8th International Conference for Science Educators and Teachers (ISET 2021)*, online, Thailand (Accepted)
- 2021 **Sanium, S.**, Buaraphan, K. (2021). Ninth-Grade Students’ Metacognitive Experience from Learning with the Metacognitive Experience Learning Box in the Equilibrium of Moments. *The International Journal of Science, Mathematics and Technology Learning*, 28(1):41-59 doi:10.18848/23277971/CGP /v28i01 (published) **Q4**
- 2018 Pimvichai, J., **Sanium, S.**, Buaraphan, K. (2018, 13–15 August). Exploration of Students’ Metacognitive Experience in Physics Classroom. *Journal of Physics: Conference Series*, doi:10.1088/17426596/1340/1/012076 In *Proceeding from International Annual Meeting on STEM Education (I AM STEM) 2018*, Khon Kaen, Thailand. (Published) **Q4**
- 2018 **Sanium, S.**, Buaraphan, K. (2018, 1315 August). Research about Metacognition in Science Education: A Case of Basic Education in Thailand. *Journal of Physics: Conference Series* doi:10.1088/17426596/1340/1/012014 In *Proceeding from International Annual Meeting on STEM Education (I AM STEM) 2018*, Khon Kaen, Thailand. (Published) **Q4**

บทความในวารสาร

- 2564 จิรรัฐติกาล พิมพิวิชัย., **สุนทรียา สาเนียม.**, ขจรศักดิ์ บัวระพันธ์. (2021). ประสบการณ์ในการคิดอภิปัญญากับการพัฒนาการเรียนรู้ ฟิสิกส์. จุลสารนวัตกรรม ฉบับที่ 61 (64). นครปฐม: สถาบันนวัตกรรมการเรียนรู้ มหาวิทยาลัยมหิดล. <https://il.mahidol.ac.th/th/newsletter61-page->
- 2561 **สุนทรียา สาเนียม.**, ขจรศักดิ์ บัวระพันธ์. (2019). การวิจัยเกี่ยวกับการคิดอภิปัญญาในบริบทการศึกษาขั้นพื้นฐานในประเทศไทย. จุลสารนวัตกรรม ฉบับที่57. (4-5). นครปฐม: สถาบันนวัตกรรมการเรียนรู้ มหาวิทยาลัยมหิดล. <https://il.mahidol.ac.th/th/newsletter57-page-3/>
- 2561 **สุนทรียา สาเนียม.**, ขจรศักดิ์ บัวระพันธ์. (2019). การรู้คิด (Metacognition) เพื่อส่งเสริมการเรียนรู้วิทยาศาสตร์ตลอดชีวิต (ตอนที่ 2). จุลสารนวัตกรรม ฉบับที่55. (7-10). นครปฐม: สถาบันนวัตกรรมการเรียนรู้ มหาวิทยาลัยมหิดล. <https://il.mahidol.ac.th/th/newsletter55/>
- 2561 **สุนทรียา สาเนียม.**, ขจรศักดิ์ บัวระพันธ์. (2019). การรู้คิด (Metacognition) เพื่อส่งเสริมการเรียนรู้วิทยาศาสตร์ตลอดชีวิต (ตอนที่ 1). จุลสารนวัตกรรม ฉบับที่54. (19-20). นครปฐม: สถาบันนวัตกรรมการเรียนรู้ มหาวิทยาลัยมหิดล. <https://il.mahidol.ac.th/th/wpcontent/uploads/2019/07/newsletter54.pdf>

HONORS

- The student who got **the highest cumulative GPA** of Guidance Psychology major in academic for 3 years from Faculty of Education, Srinakharinwirot University, Thailand
- B.Ed. (**First Class Honors**), 2014 in Guidance Psychology, Srinakharinwirot University, Thailand
- **The Outstanding Oral presentation Award**; The 8th International Conference for Science Educators and Teachers (ISET 2021) July7th-9th, 2021
Research topic: Designing a Method Course for Developing Pre-service Science Teachers' Metacognition and Pedagogical Content Knowledge for Teaching with Metacognition

CERTIFICATES (Academic)

- Certificate of acceptance of the manuscript in “sustainability” journal (ISSN 2071-1050) IF 3.251 Q1
- Certificate of presentation the oral presentation entitled “Current State of Pre0service Science Teachers' Metacognitive Regulation in a Method Course: A Case Study of Thailand” organized by the 7th IAFOR International Conference on Education in Hawaii, Honolulu, USA (IICE 2022)
- Certificate of presentation the Oral presenting paper entitled “Ninth-Grade Students' Metacognitive Experience from Learning with the Metacognitive Experience Learning Box in the Equilibrium of Moments” organized by the 2021 National RGJ and RRI Conferences, National Research Council of Thailand (NRCT)

- Certificate of invitation to a peer review for an article under publication consideration by Common Ground Research Networks.
- The basic English communication level graduation from faculty of Humanities, Srinakharinwirot University.
- Training “Helping students with learning disabilities in Higher Education Context”, 2017, organized by Office of the Higher Education Commission, Thailand
- Training for Trainers of Parent Management Training Program-Basic Courses, 2017, Department of Psychiatry, Faculty of Medicine Siriraj Hospital, Mahidol University, Thailand
- Research Ethics approved by Institute for Population and Social Research, Mahidol University, Thailand
- Research Ethics Course approved by Faculty of Graduate Studies, Mahidol University, Thailand
- Teacher license No.63209000718372 approved by The Teachers’ Council of Thailand

CERTIFICATES (Soft skills)

- Certificate for attended course entitled “Special Lectures on Brain Coaches for Innovative Ideas”, December 27, 2017, organized by Mahidol University, Thailand
- Certificate for attended course entitled “Creating Infographics for Academic Purpose”, August 24, 2017, organized by Mahidol University, Thailand
- Certificate for attended course entitled “Strategies for Successfully Completing Doctoral Research (Online), December 27, 2017, organized by Mahidol University, Thailand
- Certificate for attended course entitled “Innovation 6.0 (Transformative Learning Skill: Self-Discovery1), September 22, 2018, organized by Mahidol University, Thailand
- Certificate for attended course entitled “Online Suicide and The Dark Psychology of Internet Insult Forums and Bullying & Cyberbullying Risk Factors”, December 4, 2018, organized by Mahidol University, Thailand
- Certificate for attended course entitled “Sleeping Bag Teachers (English Communication & Life Motivation), at Bankwate School, NAN province, Thailand9 – 18 January, 2020, organized by Mahidol University, Thailand

PRESENTATIONS

2022 The 7th IAFOR International Conference on Education – Honolulu, Hawaii USA (IICE2022), 6-9, 2022

Oral presenting paper entitled “Current State of Pre-service Science Teachers’ Metacognitive Regulation in A Method Course: A Case Study of Thailand”

2021 The 8th International Conference for Science Educators and Teachers (ISET 2021) July7-9th, 2021

Oral presenting paper entitled “Designing a Method Course for Developing Pre-service Science Teachers’ Metacognition and Pedagogical Content Knowledge for Teaching with Metacognition”

2021 The 2021 National RGJ and RRI Conference, National Research Council of Thailand (NRCT), 14th June 2021, Bangkok, Thailand

Oral presenting paper entitled “Ninth-Grade Students’ Metacognitive Experience from Learning with the Metacognitive Experience Learning Box in the Equilibrium of Moments”

2018 The 1st International Annual Meeting on STEM Education (I AM STEM 2018), 13-14 Aug 2018, KHON KAEN, Thailand.

Oral presenting paper entitled “Research about Metacognition in Science Education: A Case of Basic Education in Thailand”

STUDY EXPERIENCES

2021 The literature review workshop “Vosviewer for review” was organized by, the Graduate Institute of Digital Learning and Education, National Taiwan University of Science and Technology, Taiwan. on July 7th 2021

2021 Attended an oral presentation at the 2021 National RGJ and RRI Conference, National Research Council of Thailand (NRCT), 14th June 2021

2020 Attended the Teaching Camp “Sleeping Bag Teachers (English Communication & Life Motivation), at Bankwate School, NAN province, Thailand9 – 18 January 2020,

2018 Attended and poster presentation at RGJ Ph.D. Congress 19: The Thailand Research Fund, Thailand Science Research, and Innovation (TSRI), 8-9 June 2018.

2017 Making as a team of “Development of Life Skill for Student, 2017”, organized by Department of Psychiatry, Faculty of Medicine Siriraj Hospital, Mahidol University, Thailand

2016 Making as a team of the development of teaching and learning process emphasizes on learning outcomes using the mentoring system in 105001 elementary physics, Suranaree University of Technology, Thailand

2014 Making the activities in Baansueayai nursery and consulting project for students Rajapranugroh School

2013 Joined the 1stKruea Thao Ngam student development to have the volunteerism skill at Thaksin University in Keda and PenungDistric, Malaysia.

2012 Joined Work and travel program in the United States of America (USA)

2012 Making project name is “Choice for me Choose for a dream” by the lecturer is Mr. Surabot Leekphai.

WORK EXPERIENCES

- 2015 – 2016: Faculty Development Academy at Suranaree University of Technology.
Section: Development of teaching and research
- 2018 **Assistant Teacher** Training for Pre-school Teachers Training (Active learning), Nakhon Ratchasima Engineering Commercial Technological College (KTEC), Nakhon Ratchasima, Thailand
- 2018 **Lecturer** for STEM camp at Saensuk Municipal Office, Chonburi, Thailand 20, December 2018
- 2018 Methods of Data collection research **as Lecturer** with pre-service science teachers fourth year, academic year 2018 in general science education program (a five-year bachelor program) in the teaching and learning in science I course at Nakhon Ratchasima Rajabhat University
- 2021 **Facilitator** in Computing and Science and Mathematics workshop, organized by Faculty of Education, Naresuan University
- 2021 – 2023 Research project of Development of learning modules to prepare Thai teachers for the artificial intelligence technology era, corroborate with;
- 1) Department of Biomedical Engineering, Faculty of Engineering, Mahidol University, Thailand
 - 2) Institute for Innovative Learning, Mahidol University, Thailand
 - 3) Faculty of Educational, Naresuan University, Thailand
 - 4) The Institute for the Promotion of Teaching Science and Technology (IPST), Ministry of Education, Thailand