

SAWAROS (SAM) THANAPORNSANGSUTH, ED.D.

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EDUCATION

Teachers College, Columbia University

New York, USA

Doctor of Education in Instructional Technology & Media

September 2016 – October 2020

Advisor: Nathan Holbert, PhD

- Fully funded under IBM Ben D. Wood Fellowships for Learning Technologies
- Member of Snow Day Learning Lab (2015-2022) and Media & Social Change Lab (2014-2017)

Teachers College, Columbia University

New York, USA

Master of Arts in Computing in Education

September 2014 – May 2016

Advisor: Yoo Kyung Chang, PhD

- Fully funded under the Fulbright Scholarship (4.6% acceptance rate) and *Teachers College Tuition Award*
- Kappa Delta Pi International Honor Society of Education

Chulalongkorn University (Honor)

Bangkok, Thailand

Bachelor of Arts in English with Entrepreneurship minor

June 2009 – March 2013

- Funded and received an early acceptance offer since 2006 (High School's Grade 10) under H.R. Princess Sirindhorn's Youth Development in Humanities Program.

Stanford University

Stanford, USA

Exchange Student under the Stanford-Thai Exchange Program (STEP)

April – May 2012

ACADEMIC APPOINTMENT

School of Integrated Innovation, Chulalongkorn University

Bangkok, Thailand

Full-time Faculty

December 2023 – Present

- Director of CSII Social Innovation Lab
- Assistant Dean for Student Affairs
- Current Research Projects:
 - AI in Education — Development of an AI-driven gamification tool to enhance Thai students' PISA literacy performance.
 - Education for Sustainable Development and Climate Change Education — Designing pedagogical models that integrate sustainability and climate action into K-12 education.

Institute for the Advanced Study of Sustainability, United Nations University Tokyo, Japan

Visiting Research Fellow and Consultant,

November 2023 – Present

JSPS-UNU Postdoctoral Fellow

- Led case studies research on Education for Sustainable Development – RCEs action-oriented pedagogies

- Led research and implementation of the [Enhancing Intangible Cultural Heritage \(ICH\) Safeguarding and Transmission Using ICT in Luang Prabang](#) project funded by Grant for Global Sustainability
- Designed learning modules and facilitated *Carbon-Neutral Thailand: Implementation strategies for carbon-neutrality transition* capacity building programme for Ministry of Natural Resources and Environment, Thailand

School of Environment and Society, Tokyo Institute of Technology **Tokyo, Japan**
 Adjunct Lecturer and Visiting Scholar at Takada Lab November 2021- 2023

- Instructed GEG.I411 Education for Sustainable Development through Design and Technology
- Investigated “[Culturally Relevant Constructionist Design for ESD: Innovation-driven Education for Sustainable Development](#)” funded by the Japan Society for the Promotion of Science (JSPS)

Faculty of Education, Chulalongkorn University **Bangkok, Thailand**
 Lecturer (Tenure track), Development Education Program August 2020 – January 2022

- Served as Development Education Program’s Committee and Assistant Secretary
- Instructed undergraduate and graduate level courses on Education for Sustainable Development, Education and Community Development, Orientation to Education, Research Seminar in Education and Development and Development Education Research Methodology
- Investigated the “Learning Process to Enhance Mutual Understandings Among Generations on the Thai Political Divide” project funded by Chulalongkorn University Ratchadaphiseksomphot Endowment Fund Grant
- Co-investigated the “Guidelines to promote learning through the National Digital Learning Platform for Thailand” funded by the Office of the Education Council, Thailand
- Hosted Chula Radio [พัฒนาศึกษาพัฒนาประเทศ](#) program

PROFESSIONAL EXPERIENCE

UNESCO Bangkok **Bangkok, Thailand**
 Consultant and Expert May – December 2021

- Designed and conducted research framework and taxonomy for [Transforming teaching and learning with new digital technologies](#). The project was funded by the Ministry of Education, Culture, Sports, Science and Technology of Japan

Teachers College, Columbia University **New York, USA**
 Research Assistant January 2019 –September 2020

- Managed the Department of Mathematics, Science, and Technology’s [STEAMnasium](#) project.
- Conducted research on the development and the evaluation of an NSF-funded Beats Empire game, [Playful Formative Assessment for Computer Science \(PFAC\)](#) mixed methods project

Little Builders **Bangkok, Thailand**
 Co-Founder and Education Lead January 2014 – Present

- Little Builders is a social enterprise in Thailand that supports young learners in creating social inventions through computation, digital fabrication, and hands-on, project-based STEM curricula. We apply constructionist design frameworks and design thinking to create a playful learning environment.

- Little Builders has organized maker education programs in low-income Thai public schools, impacting more than 500 students. We rely on a network of 300 young professionals and university students who help us organize and facilitate the programs.

Explain Everything Inc.

New York, USA

UX Researcher (Part Time)

May 2015 – April 2018

- Conducted longitudinal user research, including interviews, surveys, concept validation, usability studies, A/B testing, and exploratory research on schools' technology deployment in the United States.
- Analyzed potential US school districts' partnership in integrating *Explain Everything* mobile application in their 1:1 iPad programs in order to support instructional, learning, and assessment goals in schools.

Sesame Workshop

New York, USA

Content Research, US Social Impact Department

2015

- Performed content research and outreach for *Make Believe with Math*, Sesame Workshop's first online professional development course in collaboration with Google.
- Conducted content research for the Social Impact Department's projects, including *Sesame Street and Autism - seeing amazing in all children* and *Dealing With Divorce*.

WNET New York Public Media

New York, USA

Children's Educational Media Intern

2015

- Assisted the executive producer of the American history video game *Mission US: City of Immigrants* by conducting content research, beta testing, user support, and implementing a partnership with the Tenement Museum.
- Designed activities for *OhNoah! Family Activities Guide*, aimed at young Spanish learners.
- Conducted quality assurance and evaluated pitches and pilots for potential new shows to be developed as part of the *Ready to Learn 2015* Grant for Children's Educational Media.

School of Global Studies, Thammasat University

Bangkok, Thailand

Program Manager

2014

- Managed the [Bachelor of Arts in Global Studies and Social Entrepreneurship \(GSSE\)](#) program.

SKILLS

- **Research Software:** Dedoose, NVivo, SPSS, R Studio
- **Programming:** HTML, Javascript, CSS, Logo, NetLogo, Scratch
- **Art & Design:** Adobe Creative Suite: Photoshop, Illustrator, Premiere, Canva, CAD
- **Languages:** Thai (native proficiency), English (bilingual proficiency), Japanese (JLPT N4), Lao (professional working proficiency)
- **Micro Controller/ Physical Computing:** Arduino, LilyPad, BBC micro:bit, Gogo Board
- **Fabrication Tools:** Laser Cutter, 3D Printer, CNC machine, Vinyl Cutter, Vacuum Forming

SELECTED AWARDS & FELLOWSHIP

- **Fellow**, Thailand Institute of Justice (TIJ) [RoLD Xcelerate](#): Investing in the Rule of Law for a Sustainable Future 2024

- Fellow, [Stanford University's Innovative Teaching Scholars \(ITS\) Program](#) 2022
- Fellow, [JSPS Postdoctoral Fellowships for Research in Japan](#) (Standard Program) 2021
- Fellow, IBM Ben D. Wood Fellowship for Learning Technologies 2016-2019
- Recipient, Teachers College Dean's Grant for Student Research 2018- 2019
- Recipient, D.G. Tewksbury Memorial Award 2018
- Fellow, [Penn-Columbia Social Impact House](#) 2016
- Recipient, Fulbright Scholar, [Open Competition Scholarship Program](#) 2014-2016
- Recipient, DO-It Awards: Thai Social Enterprise Office 2015, 1st Place

MEMBERSHIP AND SERVICE TO THE ACADEMIC COMMUNITY

Book

- Reviewer, [MIT Press](#)

Scopus-indexed Journals

- Editorial Board Member, Associate Editor [International Journal of Child-Computer Interaction](#) (Scopus Q1, H-Index 28, ScienceDirect/ Elsevier)
- Reviewer, [ACM Transactions on Computer-Human Interaction](#) (Scopus Q2, H-Index 100, ACM)
- Reviewer, [Asia Pacific Journal of Education](#) (Scopus Q2, H-Index 27, Routledge)
- Reviewer, [Heliyon](#) (Scopus Q1, H-Index 46, Cell Press)

Conferences and Competitions

2026

- Judge for [Global Sustainability Challenge 2025–26](#)

2025

- Program Committee for Short Paper Track [Constructionism 2025](#), Zurich, Switzerland

2024

- Session chair for Thailand Constructionism Forum 2024

2023

- Co-chair of the Asia / Australia sessions for the [Connected Learning Summit \(CLS\) 2023](#)
- Associate Chair for [Fablearn](#) and [Constructionism](#) Conference 2023
- Reviewer for Full Paper, ACM Interaction Design and Children [IDC conference 2023](#)

2022

- Associate Chair for Full and Short Paper, ACM Interaction Design and Children [IDC conference 2022](#)
- Reviewer for [International Conference of the Learning Sciences \(ICLS\) 2022](#)

2021

- Associate Chair for Demo and Work-in-progress, ACM Interaction Design and Children IDC 2021

2020

- Chair for the Young Maker tracks at ACM Digital Fabrication in Education [FabLearn Asia 2020](#)
- Reviewer for ACM Digital Fabrication in Education [FabLearn 2020](#)

2019

- Chair for Educator Roundtable track at ACM Digital Fabrication in Education [FabLearn 2019](#)
- Reviewer for ACM Digital Fabrication in Education [FabLearn 2019](#)

- **Reviewer for** Learning Sciences Graduate Student Conference 2019
- **Conference volunteer** for Scratch Day at Teachers College 2019-2017

<2018

- **Reviewer** for ACM Digital Fabrication in Education FabLearn 2017
- **Conference volunteer** IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN) 2016
- **Conference interpreter** for Constructionism 2016

Membership

- The American Educational Research Association ([AERA](#)) 2017-18, 2023, 2026
- Comparative International Education Society ([CIES](#)) 2023, 2025-2026
- International Society of the Learning Sciences ([ISLS](#)) 2017-2023
- Association for Computing Machinery ([ACM](#)) 2023
- The Japan Society for International Development ([JASID](#)) 2022-2023
- [Kappa Delta Pi](#) International Honor Society of Education 2014-2016

Others

- **Expert** for the UNESCO's '[Situational analysis on the use of frontier technologies in teaching and learning in primary and secondary education](#)' project
- [Raised 340,000 THB](#) to fund the provision of 75 tablets and internet SIM cards to three schools in Bangkok and Surathani, enabling online learning during the COVID-19 school lockdown (campaign from August to October 2021)

MEDIA COVERAGE

International Media

- Featured on [Times Higher Education](#)
- Op-ed article for [COP 28 DIPLOMATIC COURIER](#) Bookazine on Empowering Youth to Become Sustainability Leaders (2024)
- UNU-IAS. (2024). [Side event promotes digital technology in culture and education](#)
- [LuangPrabang News](#) ການສ້າງຄວາມເຂັ້ມແຂງໃນການອະນຸລັກ ແລະ ການນໍາໃຊ້ ICT ເພື່ອສືບສາມາດລະດົກວັດທະນະທຳທີ່ຈຸບັດຢູ່ໃນໄດ້
- UNESCO Bangkok. (2022). [Lao PDR: Youth in Luang Prabang innovate ways to safeguard living heritage for sustainable development](#)
- UNU-IAS. (2022). [Luang Prabang youth present solutions to safeguard intangible cultural heritage](#)
- UNU-IAS. (2022). [Workshops engage youth to safeguard intangible cultural heritage in Luang Prabang](#)
- [UNESCO \(2022\) as an expert on education technology research](#)
- [Interview: Teachers College International Initiatives](#)
- [Project Lead on Teachers College COVID Protective Equipment for Healthcare Professionals](#)
- [Bangkok Post on Thai students and International Higher Education programs](#)
- [Columbia University's STEAMnasium Report](#)
- [Time Out: Little Builders](#)
- [Interview: UPenn The Center for Social Impact Strategy](#)

Media in Thai

- [Chaipattana x Chula Fair: The Power of Unseen](#)
- [Learn Plern Plern Podcast- Ep.79](#)
- [Rise & Shine Podcast จิตวิทยาการเรียนรู้กับอาจารย์ ดร. สาม สวรรส ธนาพรสังสทธิ์](#)
- [Chula Radio วิทยุฟ้า- รายการพัฒนศึกษาพัฒนาประเทศ](#)
- [ED Talks “เด็กหลุดออกจากการศึกษา กว่าล้านคน ใครช่วย?”](#)
- [GLab ศูนย์นวัตกรรมสังคมเพื่อการพัฒนาอย่างยั่งยืน – CreativeMOVE](#)

GRANTS & PROJECTS

1. Program Management Unit on Area-Based Development (PMUA)

หน่วยบริหารและจัดการทุนด้านการพัฒนาระดับพื้นที่ (บพท)

Project Title: Development of a Digital Learning Platform to Enhance Thai Students' Analytical Thinking and Competency (โครงการพัฒนาแพลตฟอร์มเทคโนโลยีดิจิทัลเพื่อการเรียนรู้ เพื่อยกระดับเด็กไทยให้มีความสามารถในการคิดวิเคราะห์และสมรรถนะสูง)

Amount: 30,000,000 THB

Periods of research: 2025-2027

Position: Co-Principal Investigator

Country: Thailand

2. ศูนย์นวัตกรรมทางสังคม Social Innovation Hub (SiHub) at Chulalongkorn University

Project Title: PlaySafe: Interactive Sex-Ed Board Game for Teenagers

Amount: 200,000 THB

Periods of research: 2025-2026

Position: Principal Investigator

Country: Thailand

3. Japan Society for the Promotion of Science KAKENHI B

Project Title: Global RCE Network: Fostering Innovative Pedagogies and Action-oriented Education for Sustainable Development

Amount: 20,000,000 JPY

Periods of research: 2023-2025

Position: Collaborator under Professor Junichi Takada

Country: Japan

4. Grants-in-aid for Scientific Research (Grant-in-Aid for JSPS Fellows)

Project Title: Culturally Relevant Constructionist Design for Education for Sustainable Development

Amount: 1,400,000 JPY

Periods of research: 2021-2024

Position: Co-Principal Investigator with Professor Junichi Takada

Country: Japan

5. Grant for Global Sustainability

Project Title: Enhancing ICH safeguarding and transmission using ICT in Luang Prabang
Amount: 30,000,000 JPY
Periods of research: 2021-2024
Position: Researcher under Dr. Jonghwi Park of the United Nations University (UNU-IAS) in partnership with Tokyo Institute of Technology (Joined the project in November 2021)
Allocated amounts: 8,490,000 JPY* (*managed under UNU-IAS Budget)
Country: Japan

6. Chulalongkorn University Ratchadaphiseksomphot Endowment Fund Grant

Project Title: Learning Process to Enhance Mutual Understandings Among Generations on the Thai Political Divide
Amount: 120,000 THB
Periods of research: 2021
Position: Principal Investigator
Country: Thailand

7. Office of the Education Council, Thailand

Project Title: Guidelines to promote learning through the National Digital Learning Platform for Thailand
Amount: 700,000 THB
Periods of research: 2021
Position: Co-Principal Investigator
Country: Thailand

8. Dean's Grant for Student Research, Teachers College, Columbia University

Project Title: Making for Community: Culturally Responsive Maker Education for Low-income Thai Public Schools
Amount: 1,600 USD
Periods of research: 2018-2019
Position: Principal Investigator
Country: United States of America

9. Southeast Asia Supplemental Grant, Fulbright

Project Title: Teaching Thai At-Risk Students to Design and Create Technology
Amount: 2,500 USD
Periods of research: 2015
Position: Principal Investigator
Country: United States of America

RESEARCH DISSEMINATION

Books and United Nations Publications

- Insebayeva, N., **Thanapornsanguth, S.**, Li, S., Park, J. and Mejia Jr, A. (eds) (2025). Learning for a Sustainable Future: RCE Stories of Action-Oriented Pedagogy. Tokyo: United Nations University, Institute for the Advanced Study of Sustainability (UNU-IAS). <https://doi.org/10.53326/KRCZ2011>
- Silla, J., Park, J., & **Thanapornsanguth, S.** (2024). Net Zero Youth Capacity Building Programme Report. United Nations University. <https://unu.edu/sites/default/files/2024-03/Net%20Zero%20Youth%20Capacity%20Building%20Programme%20Report.pdf>
- แนวทางการส่งเสริมการเรียนรู้ที่เชื่อมโยงกับ National Digital Learning Platform สำหรับประเทศไทย [Guidelines to promote learning through National Digital Learning Platform for Thailand]. (2021, November). Office of the Education Council. <http://www.onec.go.th/th.php/book/BookView/1921>

Publications in Q1-Q2 Scopus-Indexed Journals

- **Thanapornsanguth, S.**, Park, J., Sato, F. E., Boadie-Ampong, M., Li, S., & Konishi, M. (2025). Action-oriented pedagogies for education for sustainable development and climate action: Insights from Regional Centres of Expertise. *International Review of Education*. <https://doi.org/10.1007/s11159-025-10156-3>
- Thanapornsanguth, S., Zheng, Y. & Holbert, N. (under review). Mixing Learning Analytics and Qualitative Methods to Investigate Students' Connection to Data. *International Journal of Educational Research Open*.
- **Thanapornsanguth, S.**, Edler, K. L., Park, J., Takada, J., & Yamaguchi, S. (2025). Intangible cultural heritage safeguarding: A youth-led community of practice in Lao People's Democratic Republic. *International Journal of Intangible Heritage*, 1(20), 159–179. <https://doi.org/10.35638/ijih.2025.1.20.011>
- **Thanapornsanguth, S.**, & Anamwathana, P. (2025). Youth participation during Thailand's 2020-2021 political turmoil. *Asia Pacific Journal of Education*. 45(1), 54-68. <https://www.tandfonline.com/doi/full/10.1080/02188791.2022.2037513>
- Songkram, N., Chootongchai, S., Osuwan, H., & **Thanapornsanguth, S.** (2024). Unlocking the digital world: Empowering seniors via lifelong learning through digital technology. *Interactive Learning Environments*. <https://doi.org/10.1080/10494820.2024.2444541>
- **Thanapornsanguth, S.** (2024). 4Ps for fostering social environmental identities: case studies in social entrepreneurship education and education for sustainable development. *Entrepreneurship Education*, 1-26. <https://doi.org/10.1007/s41959-024-00128-3>
- Songkram, N. ., Chootongchai, S. ., **Thanapornsanguth, S.** ., Osuwan, H. ., Piromsopa, K. ., Chuppunnarat, Y. ., & Songkram, N. (2023). Success Factors to Promote Digital Learning Platforms: An Empirical Study From an Instructor's Perspective. *International Journal of Emerging Technologies in Learning (iJET)*, 18(09), pp. 32–48. <https://doi.org/10.3991/ijet.v18i09.38375>
- Anamwathana, P. & **Thanapornsanguth, S.** (2023). Youth political participation in Thailand: a social and historical overview. *International Journal of Sociology*, 53(2), pp.146-157. <https://www.tandfonline.com/doi/full/10.1080/00207659.2023.2167381>
- **Thanapornsanguth, S.**, & Holbert, N. (2020). Culturally relevant constructionist design: exploring the role of community in identity development, *Information and Learning Sciences*, Vol. 121 No. 11/12, pp. 847-867. <https://doi.org/10.1108/ILS-02-2020-0024>

- Holbert, N., **Thanapornsanguth, S.**, & Villeroy, M. (2017). Challenges and Tradeoffs When Engaging Young Makers With Constructing for Others. *International Journal of Designs for Learning*, 8(1). <https://doi.org/10.14434/ijdl.v8i1.22665>
- Literat, I., Conover, A., Herbert-Wasson, E., Page, K., Riina-Ferrie, J., Stephens R., **Thanapornsanguth, S.** & Vasudevan, L. (2017). Toward multimodal inquiry: opportunities, challenges and implications of multimodality for research and scholarship, *Higher Education Research & Development* 37(3), 565-578. <https://doi.org/10.1080/07294360.2017.1389857>

Publications in Peer-reviewed Conference Proceedings

- Park, J., **Thanapornsanguth, S.**, Li, S., & Sato F.E. (2023). Global RCE Network: Action-oriented Education for Sustainable Development. The 34th Japan Society for International Development (JASID) Annual Conference. Tokyo, Japan
- **Thanapornsanguth, S.** & Takada, J. (2023). Constructing Sustainability: Integrating Constructionist Learning in Education for Sustainable Development. Proceedings of Constructionism / FabLearn 2023. New York, NY: ETC Press.
- Blikstein, P., Fuhrmann, T., **Thanapornsanguth, S.**, Ferracane, M., Talmon, F., Zhang, X., & Segev, Y. (2023). Making around the world: Experiences & lessons learned. In Proceedings of the FabLearn Conference 2023, New York, NY.
- Edler, K.L., **Thanapornsanguth, S.**, Park, J., Takada, J. & Silla, J.S. (2023). A Community of Practice for Intangible Cultural Heritage: Phenomenographic Insights of Youth's Experience with Traditional Recital Readings in Luang Prabang, Lao PDR. Proceedings of the 17th International Conference of the Learning Sciences (ICLS). Montreal, Canada.
- **Thanapornsanguth, S.** & Park, J. (2023). Using Human-centered Design for Local Sustainable Development Challenges. 2023 *American Educational Research Association Annual Meeting (AERA)*. Chicago, IL
- Park, J., **Thanapornsanguth, S.**, Silla, J.S, & Edler, K.L. (2023). Toward Safeguarding Cultural Heritage in Luang Prabang: The Perspectives of Lao Youth. *Proceedings of Comparative and International Education Society 2023 (CIES)*. Washington DC
- **Thanapornsanguth, S.** (2023). Constructionist Design for Sustainable Development in Higher Education. *Proceedings of Comparative and International Education Society 2023 (CIES)*. Washington DC
- **Thanapornsanguth, S.**, Park, J., Silla, J.S, & Edler, K.L. (2022). Youth Safeguarding Intangible Cultural Heritage in Luang Prabang through Community-centered Innovations. The 33rd Japan Society for International Development (JASID) Annual Conference. Tokyo, Japan
- Anamwathana, P., **Thanapornsanguth, S.**, & Preededilok, F. (2022). #WhiteRibbonAgainstDictatorship: Youth participation in Thailand's 2020-2021 political movement. Proceedings of the 16th International Conference of the Learning Sciences (ICLS). Hiroshima, Japan.
- **Thanapornsanguth, S.** (2022). Constructionist Design for Sustainable Development. Proceedings of the 16th International Conference of the Learning Sciences (ICLS). Hiroshima, Japan.
- **Thanapornsanguth, S.**, Anamwathana, P. & Preededilok, F. (2021). Thailand's 2020s Youth-led Anti-government Movement from the lens of High School Students. *Proceedings of The 4th International Academic Conference on Education*. Barcelona, Spain.
- **Thanapornsanguth, S.**, Zheng, Y. & Holbert N. (2021). Understanding Youth's Personal Connection to Data in a Game-like Assessment System through Learning Analytics and Qualitative Analysis. *Proceedings of the 2020 Connected Learning Summit*. Cambridge, MA.

- **Thanapornsanguth, S.** & Holbert N. (2020). Culturally Relevant Constructionist Design: A Design Principle for Low-income School-based Maker Experiences. *International Conference of the Learning Sciences (ICLS) 2020*. Nashville, TN. <https://doi.org/10.22318/icls2020.82>
- **Thanapornsanguth, S.** & Holbert N. (2020). Lessons from a Teacher: Culturally Relevant Teaching in a Constructionist Classroom. *Proceedings of Constructionism 2020*. Dublin, Ireland.
- **Thanapornsanguth, S.** (2020). Sensory Storytelling. *Proceedings of Fablearn Asia 2020*. Bangkok, Thailand.
- **Thanapornsanguth, S.** & Holbert N. (2019, March). Making Community: Following in the footsteps of the Thai King. In *Proceedings of the 8th Annual Conference on Creativity and Fabrication in Education*. ACM. <https://doi.org/10.1145/3311890.3311911>
- **Thanapornsanguth, S.** & Holbert N. (2018). Exploring girls' values and perspectives in making for others. *Proceedings of Constructionism 2018*. Vilnius, Lithuania.
- **Thanapornsanguth, S.**, Holbert, N., & Chan, M. (2018). Towards girls' self-perception in technology and craft: Challenges and implications. *Proceedings of Constructionism 2018*. Vilnius, Lithuania.
- Davey, C., **Thanapornsanguth, S.**, & Holbert, N. (2018). Making Together: Cultivating community of practice in an all-girls constructionist learning environment. *Proceedings of Constructionism 2018*. Vilnius, Lithuania
- Holbert, N., & **Thanapornsanguth, S.** (2018). Expanding the maker movement by recentering "building for others" in construction activities. In J. Kay & R. Luckin (Eds.), *Rethinking Learning in the Digital Age: Making the Learning Sciences Count, 13th International Conference of the Learning Sciences (ICLS) 2018* (Vol. 1, pp. 488–495). London, UK: International Society of the Learning Sciences. <https://doi.org/10.22318/cscil2018.488>
- **Thanapornsanguth, S.** & Holbert, N. (2017). Bots for Tots: Young girls' perceived versus actual competency in technology and making. In *Proceedings of the 16th International Conference on Interaction Design and Children*. Stanford, CA: ACM. <https://doi.org/10.1145/3078072.3084309>
- **Thanapornsanguth, S.** (2016, October). Using Human-centered design and social inventions to find the purposes in making. In *Proceedings of the 6th Annual Conference on Creativity and Fabrication in Education* (pp. 17-25). ACM. <https://doi.org/10.1145/3003397.3003400>
- **Thanapornsanguth, S.** (2016). Compassion and empathy through inventions: GoGo Board Toolkit for 7-10 years old. *Proceedings of Constructionism 2016*: Bangkok, Thailand.
- **Thanapornsanguth, S.** & Laitavorn, Y. (2016). Little Builders: Empowering at-risk children by building and design. *Proceedings of Constructionism 2016*: Bangkok, Thailand
- **Thanapornsanguth, S.** FabLearn (2015). Teaching Thai At-Risk Students to Design and Create Technology. *Digital Fabrication in Education Conference*, Stanford University: Stanford, CA.

Invited Presentations

- "Design with Climate: Nature-Based Solutions Symposium" for Bangkok Climate Action Week. (2025, October), Faculty of Architecture, Chulalongkorn University. Bangkok, Thailand
- Singapore Management University. (2025, February). Panel on Sustainable Entrepreneurship: Driving Growth in Asia with Digital Intelligence. Bangkok, Thailand
- Park, J., & Thanapornsanguth, S. (2024, November). Workshop on "Transform your curriculum!" organized by Singapore University of Social Sciences. Singapore
- Action-oriented pedagogies for inclusive and sustainable learning" at SUSS SoTL Symposium 2024. Singapore
- Times Higher Education. (2024, June). Panel on "Higher education: Effective stewardship of technology for sustainable development" at the Global Sustainable Development Congress.

Bangkok, Thailand

<https://www.timeshighered-events.com/gsd-congress-2024/agenda/session/1356526>

- Thanapornsanguth, S., Silla, J., & Park, J. (2024, February). Digital Arts and Cultural Inclusion: Navigating the Intersection of Technology, Identity, and Dialogue. Side event on “Fostering identity and inclusion through cultural transmission” at the UNESCO World Conference 2024, Abu Dhabi, UAE.
- Blikstein, P., Fuhrmann, T., Thanapornsanguth, S., Ferracane, M., Talmon, F., Zhang, X., & Segev, Y. (2023, October). Panels on "Making around the world: Experiences & lessons learned" at the FabLearn Conference 2023, New York, NY.
- Park, J., & Thanapornsanguth, S. (2023, September). Designing Community-Based Actions for Sustainable Consumption and Production (SCP). Workshop facilitated at the ESD-Net 2030 Learning Webinar on ESD Pedagogy. Online.

Book Chapter

- **สวรส ธนาพรสังสุทธิ์**. Action-oriented Pedagogy : การศึกษา เพื่อการพัฒนาอย่างยั่งยืน. ก้าวสู่การศึกษาไร้รอยต่อ รวมบทความจากโครงการจัดการความรู้และขับเคลื่อนระบบการ ศึกษาและการเรียนรู้ ปีที่ 2.-- กรุงเทพฯ : มหาวิทยาลัยธรรมศาสตร์, 2567. ISBN 978-616-488-465-6
- Riley, E., Holbert, N., **Thanapornsanguth, S.** (2019). Building knowledge and relationships through building toys for others. *Meaningful Making 2: Projects and Inspirations for Fab Labs and Makerspaces*. Constructing Modern Knowledge Press.

Dissertation

- Thanapornsanguth, S. (2020). Making Community: Culturally Relevant Constructionist Design for Low-income Thai Public Schools (Doctoral dissertation, Columbia University). <https://doi.org/10.7916/d8-v78s-xp68>

TEACHING EXPERIENCE

Chulalongkorn School of Integrated Innovation

Full-Time Faculty Member, 2024- Present

5606308 Innovation for the Sustainable Development Goals (Undergraduate)

- This course explores the United Nations' 17 Sustainable Development Goals (SDGs), emphasizing their interconnectedness and equipping students to address global challenges such as climate change, responsible consumption, gender equality, and pandemics. Through discussions, group work, and guest speakers, students explore specific issues and design innovative solutions using design thinking principles, fostering the skills and knowledge needed to contribute to a sustainable future.

5606304 Profit with Purpose: Business Strategies for Sustainability (Undergraduate)

- This course explores Social Entreprises, Corporate Social Responsibility and Corporate Social Investment, offering insights into the intricate dynamics of Social Enterprises and the Non-Governmental Organizations sector. Through a case-method approach, students will explore the strategies, challenges, and impacts associated with these domains. Students will have a holistic understanding of the intersection between corporate initiatives and their broader societal implications.

5606203 Taylor Swift and Social Change (Undergraduate)

- Exploring Taylor Swift's influence on contemporary social change; focusing on the themes of gender equality, women's empowerment, and intellectual property rights; analyzing her music, legal battles, and public advocacy; investigating her contributions to gender equality, sexual harassment awareness, LGBTQ+ rights, and political engagement; highlights of her transformation from a pop icon to a global advocate; providing insights into the intersection of art, activism, and social change.

Faculty of Law, Chulalongkorn University

Adjunct Lecturer, 2026- Present

3480492 Justice Innovation Lab (Undergraduate)

- This course explores contemporary justice challenges through the lens of innovation and design thinking. Students examine how issues such as access to justice, inequality, gender justice, climate change, digital governance, and public health intersect with legal systems and affect different stakeholders. Through discussions, group work, field interviews, and hands-on studio activities, students learn to identify justice gaps and co-design innovative, justice-oriented solutions. The course equips students with practical tools and mindsets to rethink the role of law and legal professionals in advancing more inclusive, equitable, and sustainable societies.

Tokyo Institute of Technology

Adjunct Lecturer (Graduate), 2022- 2023

GEG.I411 Education for Sustainable Development through Design and Technology (Graduate)

- This course focuses on Education for Sustainable Development (ESD) as the unifying theme on different sustainability aspects, such as climate changes, responsible consumption, resource management, gender equality, recent pandemic, and other pressing global issues. It empowers communities and individuals to have a critical understanding of the underlying and interconnected issues and be part of the solutions. In this course, students will discuss and explore social,

economic, and environmental issues within and beyond their localities while sharing their solutions with other group members. Ultimately, each group will investigate the social and environmental problems of their interest through various user experience research methods. Guest speakers from different fields related to the SDGs will also be invited to provide the students with new perspectives to kick start their project ideas. The second part of the course focuses on designing and creating innovative solutions to their choice's local or global sustainability issue, using the design thinking process and fabrication tools. Engaging in a maker-centered learning environment, this hands-on, project-based course provides the students' opportunities to design and create. The final project aims to foster the skills, knowledge, awareness, and attitudes to help the students address the identified issues and build a sustainable future.

Faculty of Education, Chulalongkorn University

Lecturer, 2020- 2021

2746292 Education for Sustainable Development (Undergraduate)

- Globalization, global changes, and development crises; sustainable development efforts at local and international levels; roles and paradigms of education for national development; educational provisions for sustainable development at basic and higher education levels; production and development of teachers for sustainable development

2746192 Orientation of Education (Undergraduate)

- *Analytical study of the principles of education; holistic view and evolution of educational system; effects of historical philosophical, socio – economic political foundations on education; problems, efforts to solve, and lesson learned from solving educational problems; trends and alternatives for future development of education*

2746729, 2746331 Development Education Research Methodology (Graduate)

- Development paradigms and development education research designs; research methodology; development of research instruments; quantitative and qualitative data analysis; development of research proposals.

2746624 Education and Community Development (Graduate)

- Perspectives and principles of education for community development; roles of education and educators in community development process; field experiences of case studies on education reform projects or activities promoting community development.

2746623 Research Seminar in Education and Development (Graduate)

- Discussion and exchange of ideas and experiences from research proposals or research findings on education as development tools in various social aspects; individual research proposal writing and presentation in the field of development education

Teachers College, Columbia University

Course Assistant, 2018- 2020

MSTU 5027 Tools & Toys for Knowledge Construction (Graduate)

- A hands-on design course intended to introduce core tenets and techniques of constructionist design. We explore and evaluate educational technologies including virtual construction environments and tools for creating digital games, simulations, and prototyping equipment. I took an active role in course planning and meeting with students regularly to discuss readings,

fabrication projects, and writing. I instructed the in-class design sessions and facilitated students' projects at the makerspace.

MSTU 4000 Core Seminar in Communication, Media, and Learning Technologies Design
(Graduate)

- Required class for all master and doctoral students. I gave recommendations and advise master students on their Integrative Projects.