

# PANATE MANOMAIVIBOOL – CURRICULUM VITAE

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**Name:** Panate MANOMAIVIBOOL

ปานเต มโนมัยวิบูลย์

**Date of birth:** October 31, 1981

**Nationality:** Thai

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**Address:** 20/451 Moo 5, Country Park 2 Soi 7

Huay-kapi, Mueang, Chonburi 20130,  
Thailand

**H-index:** 10 ([SCOPUS](#))

**Rankings:** World Top 2% in recycling and  
electrical equipment ([ScholarGPS](#))

**Languages:** Thai (native), English  
(professional), Chinese (basic)



## Academic qualifications

Doctor of Philosophy in Engineering (Industrial Environmental Economics), the International Institute for Industrial Environmental Economics (IIIEE), Faculty of Engineering (LTH), Lund University, Sweden Sep 2011

*Dissertation: "Advancing the Frontier of Extended Producer Responsibility: the Management of Waste Electrical and Electronic Equipment in Non-OECD Countries"*

Licentiate of Engineering in Industrial Environmental Economics, the International Institute for Industrial Environmental Economics (IIIEE), Faculty of Engineering (LTH), Lund University, Sweden Dec 2009

*Dissertation: "Making Sense of Extended Producer Responsibility: Towards a Framework for Policy Transfer"*

Master of Arts in Public Administration and Public Policy (with Distinction), the Department of Politics, the University of York, United Kingdom July 2007

*Thesis: "Network Management and Environmental Effectiveness: The Management of End-of-life Vehicles in the United Kingdom and in Sweden"*

Master of Science in Environmental Management and Policy, the International Institute for Industrial Environmental Economics (IIIEE), Faculty of Engineering (LTH), Lund University, Sweden Sep 2005

*Thesis: "Municipal Solid Waste Management in Bangkok: The Cases of the Promotion of Source Reduction and Source Separation in Bangkok and in Roong Aroon School"*

Bachelor of Arts in Political Science (Public Administration), 1<sup>st</sup> Class Honour with a gold medal, the Faculty of Political Science, Chulalongkorn University, Thailand Apr 2003

## Professional experiences

Jan 2025 – Present Associate Dean (Academic Services and Sustainability Management), International College, Burapha University, Chonburi, Thailand

May 2025 – Dec 2025 Assistant Dean (Academic Services and Sustainability Management), International College, Burapha University, Chonburi, Thailand

Aug 2024 – Present Assistant Professor, International College, Burapha University, Chonburi, Thailand

Nov 2019 – Jul 2024 Assistant Professor, School of Science, Mae Fah Luang University, Chiang Rai, Thailand

Oct 2018 – Jun 2024 Head of the Research Center, Circular Economy for Waste-free Thailand (CEWT) Research Center, School of Science, Mae Fah Luang University, Chiang Rai, Thailand

Apr 2019 – Apr 2023	Assistant to the President and Acting Head of the Center for the Study, Research and Operations to Mitigate Forest Fire and Haze in Thailand and in the Region, Mae Fah Luang University, Chiang Rai, Thailand
Nov 2011 – Nov 2019	Lecturer, School of Science, Mae Fah Luang University, Chiang Rai, Thailand
Mar 2013 – Aug 2013	Research Fellow, Asian Institute of Energy, Environment, and Sustainability (AIEES), Seoul National University, Seoul, Republic of Korea
Oct 2006 – Sep 2011	Research Associate, the International Institute for Industrial Environmental Economics (IIIEE), Lund University, Sweden

## Research experiences

I have led and served as an expert in over 50 projects on waste management, circular economy and sustainable development since 2003. Notably I have collaborated with researchers from IIIEE in Sweden, NIES in Japan, FCU in Taiwan, SNU in South Korea and others to advance our knowledge on extended producer responsibility (EPR) which has been a driving force behind the reform of solid waste policies in many industrialized countries. I also assisted in a series of projects commissioned by the Pollution Control Department (PCD) in Thailand to translate the policy principle into draft laws for the management of waste electrical and electronic equipment (WEEE) and packaging waste. At Mae Fah Luang University (MFU), I found a research center, Circular Economy for Waste-free Thailand (CEWT) at the School of Science. At CEWT, we develop cost-effective solutions to waste management and material recovery with local governments and companies such as Chiang Rai Zero Waste, D-Solutions (data-supporting systems for household waste, hazardous waste and hospital waste), and an island recycling program. I have also served as an assistant to the president at MFU on environmental management and sustainability between 2019 and 2023. In addition, I have worked extensively with Designated Areas for Sustainable Tourism Administration (DASTA) and Global Sustainable Tourism Council (GSTC) on destination assessment and strategic planning for sustainable tourism with strong emphasis on environmental protection. I continue working for sustainability at the International College, Burapha University.

## Journal articles and book chapters

1. Tasaki, T., Kato, S., Souda, H., Imaizumi, T., Yoshida, A., **Manomaivibool, P.** & Unroj, P. 2024. Design, Evaluation, and Acceptance of Advanced Energy-Efficient Houses for Thailand. In: Fukushima, S., Kobayashi, H., Yamasue, E., Hara, K. (eds) *EcoDesign for Sustainable Products, Services and Social Systems I*. Springer, Singapore, pp.31-43.
2. Yoshida, A., **Manomivibool, P.**, Tasaki, T., Unroj, P. 2020. Qualitative Study on Electricity Consumption of Urban and Rural Households in Chiang Rai, Thailand, with a Focus on Ownership and Use of Air Conditioners. *Sustainability*, 12, 5796.
3. Wattanasiriwech, S., Yanya, H., Thanomsilp, Ch., **Manomaivibool, P.**, and Wattanasiriwech, D. 2019. Effects of foaming agent contents and firing temperatures on porosity and density of granulated foam glass prepared from waste glass. *Industrial Technology Lampang Rajabhat University Journal*, 12(2): 84-95.
4. Yodsuwan, C., Intralawan, A., **Manomaivibool, P.**, Dokmaingam, P., Prapatong, P., Vititanon, N., Muongpruan, C., Noithammaraj, P., and Pradera Diez, J. 2019. Local Economic Linkage between Private Enterprises and Local Communities: A Comparative Case Study of Thailand Tourism Business Developments. *MFU Connexion: Journal of Humanities and Social Sciences*, 8(2): 19-35.
5. **Manomaivibool, P.**, and Noithammaraj, P. 2018. Tourism and Municipal Solid Waste Management in Developing Economies: Challenges and Opportunities. *Open Access Journal of Waste Management & Xenobiotics*, 1(2): 1-5.
6. **Manomaivibool, P.**, Mongkonkorn, S., Unroj, P., Dokmaingam, P. 2018. Chiang Rai Zero Waste: participatory action research to promote source separation in rural areas. *Resources, Conservation and Recycling*, 136, 142-152.
7. Dokmaingam, P., and **Manomaivibool, P.** 2017. Integrated municipal solid waste management for the highland rural area: case study Patueng sub-district in Chang Rai, Thailand. *Rangsit Journal of Arts and Sciences*, 7(2), 173-180.

8. Chana, T.M., and **Manomaivibool, P.** 2016. Examining co-management of national parks through the lens of common-pool resource design principles: A comparative case study of Liwonde and Majete in Malawi. *Applied Environmental Research*, 38(3): 77-92.
9. **Manomaivibool, P.**, Chart-asa, C., and Unroj, P. 2016. Measuring the impacts of a save food campaign to reduce food waste on campus in Thailand. *Applied Environmental Research*, 38 (2): 13-22.
10. **Manomaivibool, P.**, and Vassanadumrongdee, S. 2016. A hybrid law model for the management of waste electrical and electronic equipment: a case of the new draft law in Thailand. *Applied Environmental Research*, 38 (1): 1-10.
11. **Manomaivibool, P.** 2015. Wasteful tourism in developing economy? A present situation and sustainable scenarios. *Resources, Conservation and Recycling*, 103: 69-76.
12. **Manomaivibool, P.**, and Hong, J.H. 2014. Two decades, three WEEE systems: How far did EPR evolve in Korea's resource circulation policy? *Resources, Conservation and Recycling*, 83: 202-212.
13. Vassanadumrongdee, S. and **Manomaivibool, P.** 2014. The challenge of promoting greater use of economic instruments in Thailand: lessons learned from the Draft Act on Economic Instruments for Environmental Management. *Applied Environmental Research*, 36: 39-51.
14. **Manomaivibool, P.**, and Vassanadumrongdee, S. 2012. Buying back household waste electrical and electronic equipment: Assessing Thailand's proposed policy in light of past disposal behaviour and future preferences. *Resources, Conservation & Recycling*, 68: 117-125.
15. **Manomaivibool, P.**, and Vassanadumrongdee, S. 2011. Extended producer responsibility in Thailand: Prospect for policies on waste electrical and electronic equipment. *Journal of Industrial Ecology*, 15(2): 185-205.
16. Lawhon, M., **Manomaivibool, P.**, and Inagaki, H. 2010. Solving/ Understanding/ Evaluating the e-waste challenge through transdisciplinarity? *Futures*, 42: 1212-1221.
17. **Manomaivibool, P.** 2010. Extended Producer Responsibility in East Asia: approaches and lessons learnt from the management of waste electrical and electronic equipment. *East Asian Review*, 13: 41-65.
18. **Manomaivibool, P.** 2009. Extended Producer Responsibility in a non-OECD Context: The management of waste electrical and electronic equipment in India. *Resources, Conservation & Recycling*, 53(3): 136-144.
19. **Manomaivibool, P.** 2008. Network management and environmental effectiveness: the management of end-of-life vehicles in the United Kingdom and in Sweden. *Journal of Cleaner Production*, 16(18): 2006-2017.

#### Conference papers and presentations

1. Kemavuthanon, K., **Manomaivibool, P.**, and Kemavuthanon, S. 2023. Integrate system design and development of Global Sustainable Tourism Criteria system (GSTC). In *Proceedings of the 2023 Joint International Conference on Digital Arts, Media and Technology with ECTI Northern Section Conference on Electrical, Electronics, Computer and Telecommunications Engineering (ECTI DAMT & NCON)*, 22-25 March 2023, Phuket, Thailand.
2. Kemavuthanon, K., **Manomaivibool, P.**, and Eungwanichayapant, A. 2022. System design of a toxic waste management system: Empirical study for Chaing Rai province. In *Proceedings of the 2022 6th International Conference on Information Technology (InCIT)*, 10-11 November 2022, Nonthaburi, Thailand.
3. **Manomaivibool, P.**, 2022. The Implementation of Extended Producer Responsibility in the Asian Context: Challenges and Lessons Learned. Presented in *the Asia Pacific Roundtable on Sustainable Consumption and Production*, 23 November 2022, Bangkok, Thailand.
4. **Manomaivibool, P.**, 2022. Promoting Circular Economy on Touristic Islands: Where is the bottleneck? Presented in *Green Synergy Solutions for Sustainable Community on Agriculture Residue-based Energy and Circular Economy*. 15-17 September 2022, Taichung, Taiwan.
5. Intralawan, A., Pingmuang, R., Rueangkitwat, I., Lawawirojwong, S., **Manomaivibool, P.**, and Navanugraha, C. 2019. Land Use Land Cover Change Detection, Relating Policy, Commons Property and the Ecosystem Service

- Analysis: A Case Study of Wiang Nong Lom Wetland, Chiang Rai. In *Proceedings of 2019 Asia-Pacific Federation for Information Technology in Agriculture (APFITA 2019)*, 29 October-1 November, Taichung, Taiwan.
6. Unmuang, M., **Manomaivibool, P.**, Eungwanichayapant, A., Kemavuthanon, K., Charoenroop, N. 2019. Using information and communication technology to support the management of household hazardous waste: a case of Chiang Rai Provincial Administrative Organization. In *Proceedings of the 45th Congress on Science and Technology of Thailand (STT 45)*, 7-9 October, Chiang Rai, Thailand.
  7. Tasaki, T., Yoshida, A., and **Manomaivibool, P.** 2019. ワークショップ手法を用いたタイにおける持続可能なエアコンの消費と生産に向けた政策オプションの導出 [Ideation of policy options/alternatives for sustainable production and consumption of air conditioners in Thailand using a workshop technique]. In *Proceedings of 2019 Annual Meeting of Japanese Society of Environmental Science (SES)*, 13-14 September, Nagoya, Japan.
  8. **Manomaivibool, P.** 2018. Chiang Rai Zero Waste: A Step-by-step Approach toward Partnership for Sustainability. Presented at the *10th International Conference on Materials Science and Technology (MSAT-10)*, 6-7 September, Bangkok, Thailand.
  9. Yoshida, A., **Manomaivibool, P.**, and Tasaki, T. 2018. Survey on appliance and energy usage by urban and rural households in Northern Thailand. Presented at the *2018 Sustainable Consumption Research and Action Initiative (SCORAI)*, 27-30 June, Copenhagen, Denmark.
  10. **Manomaivibool, P.**, Kang, M., Noithammaraj, P., and Sangsnit, N. 2017. Sustainability Benchmarking and Lessons Learned for Tourist Destination Development in Thailand: A Case of Sukhothai Historical Park. Presented at the *7th International Conference on Tourism (ICOT2017) Place and the Tourist Experience: Heritage, Sustainability and Economy*, 28 June-1 July, Chiang Mai, Thailand.
  11. **Manomaivibool, P.**, Mongkonkorn, S., Unroj, P., Dokmaingam, P. 2016. Chiang Rai Zero Waste: implementing a sufficient economy framework for sustainable lifestyle in rural Thai communities. Presented at the *12th Biennial International Conference on EcoBalance*, 3-6 October, Kyoto, Japan.
  12. Yoshida, A., Tomohiro, T., **Manomaivibool, P.**, and Aoyagi, M. 2016. Household energy use of electrical appliances in rural and suburban households of Thailand. Presented at the *12th Biennial International Conference on EcoBalance*, 3-6 October, Kyoto, Japan.
  13. **Manomaivibool, P.** 2015. Progress of Thai WEEE legislation: 15 years in the Asian perspective. Presented at the *International Conference on WEEE & Used Battery Management and EPR Principle*, Tongji University, 20-22 May, Shanghai, China.
  14. Aye, K.L., **Manomaivibool, P.** 2014. Factors influencing on household's recycling behaviors: a case study of separation of saleable materials in Pyay City, Pyay District, Bago Region, Myanmar. In *Proceedings of the 3rd International Conference on Environmental Engineering, Science and Management*, 26-28 March, Bangkok, Thailand.
  15. **Manomaivibool, P.**, and Hong, J.H. 2013. The evolution of recycling policies in Korea in the past two decades: drivers and impacts of an extended producer responsibility program for complex waste products. Presented at the *7th International Society for Industrial Ecology's 2013 Conference*, 25-28 June, Ulsan, Republic of Korea.
  16. **Manomaivibool, P.** 2013. Quantifying waste from tourism: a case of Golden Triangle in Chiang Rai Province, Thailand. Presented at the *17th Korea-Japan Joint International Session on Waste & Resources Circulation*, Korea Society of Waste Management, 9-11 May, Danyang, Republic of Korea.

17. **Manomaivibool, P.**, and Hong, J.H. 2013. The adoption of EPR for the management of WEEE in Northeast Asia: towards an integrated framework of policy diffusion. Presented at *the 17th Korea-Japan Joint International Session on Waste & Resources Circulation, Korea Society of Waste Management*, 9-11 May, Danyang, Republic of Korea.
18. Wikee, A., **Manomaivibool, P.** and Intralawan, A. 2013. Waste disposal behaviors and demand for waste management services of highland households: the case of Mae Sa-long Nai Sub-district, Chiang Rai Province. In *Proceedings of the Twenty Seventh National Graduate Research Conference*, 28 February-1 March, Phitsanulok, Thailand, (available in Thai, abstract in English).
19. Vassanadumrongdee, S. and **Manomaivibool, P.** 2013. E-waste management system in Thailand: strategies and suggestions. Presented at *the Ninth NIES Workshop on E-waste*, 31 January-1 February, Bangkok, Thailand.
20. **Manomaivibool, P.** 2013. Practical e-waste management scheme for Thailand. Presented at *International Conference on Electronic Waste Technologies and Management: E-waste Tech 2013*, 24 January, Bangkok, Thailand.
21. Kongbuamai, N., **Manomaivibool, P.** and Remmen, A. 2012. Biomass to energy in Thailand: an institutional perspective on the challenge of very small projects in Chiang Rai. In *Proceedings of the First Mae Fah Luang University International Conference 2012*, 29-30 November, Chiang Rai, Thailand.
22. Vassanadumrongdee, S. and **Manomaivibool, P.** 2012. Estimating the costs of direct government intervention in the recycling of waste electrical and electronic equipment. Presented at *the Third International Society for Industrial Ecology's Asia-Pacific Meeting*, 20-21 October, Beijing, China.
23. **Manomaivibool, P.** 2012. Predicting disposal behaviours of the next e-waste generators in Thailand using multinomial logit model. Presented at *the Third International Society for Industrial Ecology's Asia-Pacific Meeting*, 20-21 October, Beijing, China.
24. **Manomaivibool, P.** 2011. An Evaluation Framework for Policy Learning and Transfer: Extended Producer Responsibility Programs. Presented at *2011 EEN Forum – Environmental Evaluation: Navigating Complexity*, 23-24 June, Washington, D.C., USA.
25. **Manomaivibool, P.** 2011. The WEEE laws: an international comparison. Presented at *International Society for Industrial Ecology's 2011 Conference*, 7-11 June, California, USA.
26. **Manomaivibool, P.**, and Tojo, N. 2010. The management of used mobile phones in the United Kingdom – Is exporting for re-use a sufficient solution? In *Proceedings of Going Green–CARE Innovation 2010*, 8-11 November, Vienna, Austria.
27. Murakami-Sazuki, R., Tojo, N., **Manomaivibool, P.**, Terazono, A., and Murakami, S. 2010. The collection and recycling systems of used mobile phone in European countries and Japan. In *EcoBalance2010*, 9-12 November, Tokyo, Japan.
28. **Manomaivibool, P.** 2010. Beyond OECD: The prospect of EPR in a wild WEEE world. Presented at *Canada's 6th National Workshop on Extended Producer Responsibility*, 27-29 April, Toronto, Canada.
29. **Manomaivibool, P.** 2009. The making of Thai WEEE policy: what can be the role of EPR? Poster presented in *International Society for Industrial Ecology's 2009 Conference*, 21-24 June 2009, Lisbon, Portugal.
30. **Manomaivibool, P.** 2008. Extended producer responsibility in East Asia: approaches and lessons learnt from the management of waste electrical and electronic equipment. In *Proceedings of 5th International Conference on East Asian Studies*, 21-22 September 2008, Osaka, Japan, pp. 267-286.

31. **Manomaivibool, P.**, Lindhqvist, T., and Tojo, N. 2008. EPR in non-OECD context: an introduction to research projects on the management of WEEE. Paper and poster presented in *8th Asia Pacific Roundtable for Sustainable Consumption and Production*, 18-19 September 2008, Cebu, Philippines.
32. **Manomaivibool, P.** 2006. Network Management and Environmental Effectiveness: The management of end-of-life vehicles in the UK and in Sweden. In *Proceedings of 1st International Conference on Green and Sustainable Innovation*, 29 November – 1 December 2006, Chiang Mai, Thailand, pp. 224-233.

### Teaching courses

- 2025 Sustainable Supply Chain (BBA, Burapha University)
- 2024-2025 Logistics and Supply Chain Management (BBA, Burapha University)
- 2024-2025 Sustainable Development Goals (General Education, Burapha University)
- 2022-2023 Waste Utilization in Agri-Food Sector (BSc, Mae Fah Luang University)
- 2022-2024 Sustainable Materials (BEng, Mae Fah Luang University)
- 2022-2023 Eco-materials (MSc, Mae Fah Luang University)
- 2021-2023 Sustainable Development Goals – Smart Green Synergy (free elective, Feng Chia University)
- 2012-2024 Products and Environmental Impact (free elective, Mae Fah Luang University)
- 2018-2020 Ethic and Research Methodology in Computational Science (MSc, Mae Fah Luang University)
- 2018-2020 Introduction to Geographic Information Systems (MSc, Mae Fah Luang University)
- 2017-2019 Science for Life (free elective, Mae Fah Luang University)
- 2017-2020 Academic Literature and Presentation Skills (BEng, Mae Fah Luang University)
- 2016-2018 Material Recycling (BEng, Mae Fah Luang University)
- 2012-2016 Methodology for Natural Resources and Environmental Management Research (MSc, Mae Fah Luang University)
- 2012-2015 Regulations, Policy and Planning for Natural Resources and the Environment (MSc, Mae Fah Luang University)
- 2012 Integrated Environmental Product Policy (MSc, Mae Fah Luang University)
- 2011 Local Natural Resource and Environment Management (BA, Mae Fah Luang University)
- 2008-2011 Applied Research in Sustainable Consumption and Production (MSc, Lund University)
- 2007-2011 Policies and Approaches for Sustainability (MSc, Lund University)
- 2009 Strategic Environmental Development (MSc, Lund University)

### Research projects

- 2025 **Project Expert** in “ONE UNEP Plastic Project on Accelerating a Global Circular Plastic Economy to Reduce Plastic Pollution and its Impacts in Thailand” funded by UNEP – ongoing until December 2025
- 2024 **Project Expert** in “Sustainable Packaging including Plastics Management Reinforcement in Thailand: Legislation Enhancement, Stakeholder Capacity Building, and EPR Fee” funded by GIZ’s MA-RE-DESIGN Project – ongoing until September 2025
- 2024 **Project Expert** in “The Study on the Management of End-of-life Tyres in Thailand” funded by Thai Automobile Tyre Manufacturers Association (TATMA) – ongoing until April 2025
- 2024 **Project Expert** in “Identifying Enablers for Effective Extended Producer Responsibility (EPR) systems in Asia Pacific Region: Drawing Lessons from Developed and Developing Countries in the EU and Asia” funded by SWITCH-Asia (TATMA) – ongoing until April 2025
- 2023 **Project Leader** in “The Study of Sustainable Management for Waste and Recyclables on Islands” funded by the Coca-Cola Foundation of Thailand – ongoing until October 2025

- 2023 **Project Expert** in “Advancement of policies, laws and regulations to stimulate circular economy and reduce plastic pollution in Thailand” in collaboration with Seureca, Veolia and funded by Asian Development Bank (ADB)
- 2023 **Project Expert** in “Vehicle Tracking and Municipal Solid Waste Management Systems: The Case Study of Chiang Rai Province” funded by the National Research Council of Thailand
- 2023 **Project Expert** in “The Development of a Sustainable Tourist Destination Using the Green Destination Standards” funded by Designated Areas for Sustainable Tourism Administration (DASTA)
- 2022 **Project Manager** in “The Drafting of Circular Economy Promotion Law for the Management of Packaging Waste Project” funded by the Pollution Control Department (PCD)
- 2022 **Project Leader** in “The Study of Sustainable Management for Waste and Recyclables on Islands” funded by the Coca-Cola Foundation of Thailand
- 2021 **Project Expert** in “Research on Developing a Policy Framework for Extended Producer Responsibility (EPR) for Packaging Waste in Thailand” funded by German International Cooperation (GIZ) -- DC
- 2021 **Project Leader** in “Island Recycling Management: The Eastern Gulf of Thailand Project Leader” funded by the Coca-Cola Foundation of Thailand
- 2021 **Project Leader** in “A participatory approach to reduce plastic waste from tourism industry in Mekong River” funded by the National Research Council of Thailand
- 2021 **Project Expert and Local Coordinator** in “Promotion of CounterMEASURE II against marine plastic litter in Southeast Asia and India” funded by the Japan Embassy in Thailand and the United Nation Environment (UNEP) -- DC
- 2020 **Project Expert** in “Scaling up Circular Strategies to Achieve Zero Plastic Waste in Thailand” in collaboration with Metabolic and funded by WWF Thailand
- 2019 **Project Expert and Local Coordinator** in “Promotion of CounterMEASURE against marine plastic litter in Southeast Asia and India” funded by the Japan Embassy in Thailand and the United Nation Environment (UNEP) -- DC
- 2019 **Project Leader** in “Fostering Environmental Leadership in Youth Volunteers” funded by the National Research Council of Thailand
- 2019 **Project Leader** in “Sustainability Assessment of Tourist Destinations using GSTC Criteria” funded by Designated Areas for Sustainable Tourism Administration (DASTA)
- 2019 **Project Leader** in “The Assessment of Tourist Destinations in the Designated Areas under DASTA 3 using GSTC Criteria” funded by Designated Areas for Sustainable Tourism Administration (DASTA)
- 2018 **Program Coordinator** in “Comprehensive Decision Supporting System for Sustainable Solid Waste Management” funded by the National Research Council of Thailand
- 2018 **Project Leader** in “The Assessment of Social Return on Investment in the Management of Municipal Solid Waste at Source: The Case Study of Chiang Rai Provincial Administrative Organization’s Role Models” funded by the National Research Council of Thailand
- 2018 **Project Leader** in “Analysis of Policies, Measures, and Law Enforcement on Environmental Protection: A Case Study of Electrical and Electronic Equipment in the People’s Republic of China” funded by the Thailand Research Fund
- 2018 **Project Leader** in “Communication of GSTC Criteria for Sustainable Tourism” funded by Designated Areas for Sustainable Tourism Administration (DASTA)
- 2018 **Project Leader** in “The Assessment of the Tourist Destinations in Pattaya City and Connected Areas under the Eastern Sea Tourism Development Zone using GSTC Criteria” funded by Designated Areas for Sustainable Tourism Administration (DASTA)
- 2018 **Specialist** in “Knowledge Management for Capacity Building in Sustainable Tourism” funded by Designated Areas for Sustainable Tourism Administration (DASTA)

- 2018 **Specialist** in “Lesson Drawing and DASTA Best Practices based on GSTC Criteria on Sustainable Tourism” funded by Designated Areas for Sustainable Tourism Administration (DASTA)
- 2018 **Project Leader** in “The Study and Assessment of the Tourist Destinations in Pattaya City and Connected Areas under the Eastern Sea Tourism Development Zone according to GSTC Criteria” funded by Designated Areas for Sustainable Tourism Administration (DASTA)
- 2018 **Country Coordinator** in “Changing the Global E-waste Cycle” funded by Graham Sustainability Institute, University of Michigan
- 2017 **Project Leader** in “Smart Solutions for Community Hazardous Waste” funded by the InnoHub
- 2017 **Country coordinator** in “Sustainable Consumption and Material Flows of Air Conditioners in Thailand” funded by the National Institute for Environmental Studies, Japan
- 2017 **Program Coordinator** in “Efficiency, Competitiveness and Sustainability of Thai Tourism” funded by the Thailand Research Fund
- 2017 **Project Leader** in “Data Supporting System for the Management of Toxic Waste from Communities in Chiang Rai Province” funded by the Chiang Rai Provincial Administrative Organization (CR PAO)
- 2016 **Project Leader** in “Framework for the Indicators and Evaluation of Tourist Destination Development according to GSTC Sustainable Tourism Criteria” funded by Designated Areas for Sustainable Tourism Administration (DASTA)
- 2016 **Project Leader** in “Case Studies of Best Practices in Local Employments and Procurements of Local Goods and Services in Tourist Industries” funded by Designated Areas for Sustainable Tourism Administration (DASTA)
- 2016 **Project Leader** in “The Review of Solid Waste Management Cost and the Life Cycle Assessment of Solid Waste Management Systems: Principles and Customization for Local Governments in Thailand” funded by the Thailand Research Fund
- 2016 **Project Leader** in “Deforestation and Reforestation in Naan Provinces” funded by the 100 Year Princess Srinakarin Foundation
- 2016 **Project Leader** in “Evaluation of the Zero Waste Campaign in Chiang Rai Province” funded by the Chiang Rai Provincial Administrative Organization (CR PAO)
- 2015 **Project Leader** in “A Stepwise Guide for Sub-district Administrative Organizations to Develop a Municipal Solid Waste Management System” funded by the Thai Health Promotion Foundation
- 2014 **Project Leader** in “Guidelines for Community Participation in Local Government’s Projects Affecting Public Health and the Environment: A Comparative Case Study of Small-scale Waste Disposal Projects in Chiang Rai Province” funded by Political Development Council
- 2014 **Project Leader** in “Raise Awareness and Promotion Actions toward Reducing Food Losses and Food Waste on the Campus” funded by Food and Agriculture Organization of the United Nations (FAO) -- DC
- 2014 **Project Leader** in “Measuring the Impacts of Environmental Campaigns on Attitude and Behaviors of New Students at Mae Fah Luang University” funded by Mae Fah Luang University
- 2014 **Project Leader** in “Unit-based Pricing for Waste: A Guideline for Local Governments” funded by the Thai Health Promotion Foundation
- 2014 **Specialist (environment)** in “Drafting a Law for the Management of Waste Electrical and Electronic Equipment and Community Hazardous Waste” funded by the Pollution Control Department, Thailand
- 2013 **Project Leader** in “Forest Biodiversity and Carbon Stock Inventory in Mae Fah Luang University” funded by Mae Fah Luang University
- 2013 **Project Leader** in “Comparing Local Governments’ Solid Waste Management Capabilities: The Case Study of Local Governments in Chiang Khong and Chiang Saen Districts, Chiang Rai Province” funded by the Thai Health Promotion Foundation

- 2012 **Project Leader** in “Environmental Services for Tourism Activities: The Case Study of Solid Waste and Wastewater Management in Chiang Khong and Chiang Saen Districts, Chiang Rai Province” funded by the Thai Health Promotion Foundation
- 2012 **Project Leader** in “Green University” funded by Mae Fah Luang University
- 2012 **Researcher** in “Using Cost Benefit Analysis for Policy Learning at a Local Level: A Case Study of an Incinerator Project at Mae Salong Nai Sub-District, Mae Fah Lung District, Chiang Rai” funded by the Thai Health Promotion Foundation
- 2011 **Advisor** in “Thai Electrical and Electronic Equipment Database” funded by the Pollution Control Department, Thailand
- 2010 **Advisor** in “Rules, Procedures, and Fees of Thailand’s Industrial Waste Management” funded by the Department of Industrial Works, Thailand
- 2010 **Specialist (environment)** in “Drafting a Subordinate Law under the Draft Act on Economic Measures for Environmental Management” funded by the Pollution Control Department, Thailand
- 2009 **Researcher** in “The Management of Used Mobile Phones in Europe” funded by the National Institute for Environmental Studies, Japan
- 2009 **Specialist (environment)** in “Rules, Procedures, and Fees of Thailand’s WEEE Management” funded by the Pollution Control Department, Thailand
- 2007 **Project Leader** in “Spreading the Principle of Individual Producer Responsibility to Non-OECD Countries” funded by Greenpeace International
- 2007 **Project Leader** in “Model Law on Producer Responsibility for WEEE in India” funded by Greenpeace International
- 2003 **Project Leader** in “Analysing Educational and Developmental Rights in Thailand” funded by the Office of the National Human Rights Commission of Thailand
- 2002 **Research Assistant** in “A Strategy for Thai Higher Education” funded by the Office of the Higher Education Commission, Thailand

## Awards and Recognitions

- 2024 **World Top 2% Scientist** by ScholarGPS (0.35% in Recycling & 0.34 in Electrical Equipment)
- 2023 **Pride and Dignity of Thais Award** (Conservation of Natural Resources and the Environment) from the National Identity Office, the Office of the Prime Minister (for CEWT Research Center)
- 2022 **Recognition Award** from Mae Fah Luang University for outstanding performance (for CEWT Research Center)
- 2022 **Recognition Award** from Engagement Thailand (EnT) for Top15 University to Tambon Projects (for a community engagement project)
- 2018 **Recognition Award** from Mae Fah Luang University for outstanding performance
- 2018 **Excellence in Review Award** from Resources, Conservation & Recycling for exceptional contribution as a reviewer to ensure the excellence and high quality of papers published in RCR
- 2017 **Recognition Award** from Chiang Rai Province for the development of the D-ToC system to manage household hazardous waste in Chiang Rai
- 2016 **National Research Council of Thailand’s Research Award** for the research “structure, vision, and the drivers for well-being, natural resources, and environmental management at a local level” (as a co-author)

## Others

- 2022-now Member of the PCD’s National EPR Committee for CE Packaging Management
- 2021-now Advisor to the TIPMSE’s Working Committee on Chonburi CE City Model (PackBack)
- 2018-now Vice Chair of the Organic Agro-Forestry Foundation, Thailand
- 2018-now Founder of Chiang Rai Chapter in Trash Hero Thailand

2018-2019 Advisor to MFU Student's Environmental Conservation Club, Mae Fah Luang University  
2016-now Member of the executive board of Solid Waste Association of Thailand (SWAT)  
2016-2019 Advisor to MFU Student's Cycling Club, Mae Fah Luang University  
2015-now Founder of Chiang Rai Zero Waste Network