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Education

2014 **Ph.D. in Agricultural Economics**, Texas A&M University

2005 **M.A. in Economics**, Thammasat University

1999 **B.Sc. in Economics**, Khon Kaen University

Professional Experience and Positions

1/2025- **Associate Professor**, Faculty of Economics, Thammasat University

present

12/2022- **Assistant Professor**, Faculty of Economics, Thammasat University

1/2025

10/2021- **Lecturer**, Faculty of Economics, Thammasat University

12/2022

2013-*present* **Economic Consultant**, World Bank Group

2022-*present* **Country Convenor for Thailand**, Southeast Asia Regional Collaborative for Health (SEARCH), Saw Swee Hock School Of Public Health, National University of Singapore

2019-2020 **Takemi Fellow in International Health**, Harvard T.H. Chan School of Public Health, Harvard University

2012-2013 **Research Assistant**, Department of Agricultural Economics, College of Agriculture and Life Sciences, Texas A&M University

2012 **Visiting Scholar**, Rudd Center for Food Policy and Obesity, Yale University

2011-2012 **Research Assistant**, Texas A&M School of Public Health, Texas A&M University

2011 **Research Assistant**, Department of Marketing, Mays Business School, Texas A&M University

2010-2011	Research Assistant , Hazard Reduction and Recovery Center, College of Architecture, Texas A&M University
2005-2009, 2021-2022	Telecom Business Consultant , Electricity Generating Authority of Thailand

Peer-Reviewed Articles

2025	<p>“Dilemma of CO2 Mitigation: Effects of Climate, CO2, and Technological Progress on Rice Yields”, <i>Climate Change Economics</i>, 16(2):1-9 [with Huang YK*, Fei CC, Attavanich W, Han DB, and McCarl B]</p> <p>“Technical Efficiency Estimation of Rubber Farming in Thailand”, <i>Southeast Asian Journal of Economics</i>, 13(3):113-159 [with Leelahanon S* and Amornratananukroh N]</p>
2024	<p>“Impacts of Climate Change and Agricultural Diversification on Agricultural Production Value of Thai Farm Households”, <i>Climatic Change</i>, 177(112) [with Prommawin B*, Svavasu N*, Tanpraphan S*, Saengavut V, Attavanich W, and McCarl BA]</p> <p>“Revisiting a Decade of Inequality in Healthcare Financial Burden in Cambodia, 2009–19: Trends, Determinants and Decomposition”, <i>International Journal for Equity in Health</i>, 23(196) [with Fernandes Antunes A*, Hohmann J, Flessa S]</p>
2023	<p>“The Effect of Climate Change and Agricultural Diversification on the Total Value of Agricultural Output of Farm Households in Sub-Saharan Africa”, <i>African Journal of Agricultural and Resource Economics</i>, 18(2):152-170</p> <p>“Cost Variations in Outpatient and Inpatient Services among Three Health Insurance Schemes in Thai Public Hospitals” (in Thai), <i>Journal of Health Systems Research</i>, 17(4):684-98</p>
2022	<p>“Improving Allocative Efficiency from Network Consolidation: A Solution for the Health Workforce Shortage”, <i>Human Resources for Health</i>, 20(59):1-12</p> <p>“Sensitivity Analysis and Methodological Choices on Health-Related Impoverishment Estimates in Cambodia, 2009 to 2017”, <i>Health Policy and Planning</i>, 16(1):5-15 [with Fernandes Antunes A*, Jacobs B, Nagpal S, Tong K, Flessa S]</p> <p>“Inequity by the Universal Coverage Cube: Findings from the 2020 Household Socio-Economic Survey” (in Thai), <i>Journal of Health Systems Research</i>, 16(1):5-15</p>

Peer-Reviewed Articles, *continued*

- 2021 “Health Equity Funds as the Pathway to Universal Coverage in Cambodia: Care Seeking and Financial Risk Protection”, *Health Policy and Planning*, 36(1):26-34 [with Bauhoff S, Feldhaus I, and Nagpal S]
- 2020 “Labour Skills, Economic Returns, and Automatability in Thailand”, *Southeast Asian Journal of Economics*, 8(2): 51-90
- “Area-based Network Allocations: A Solution to Mitigate the Shortage of Health Workforce” (in Thai), *Journal of Health Systems Research*, 14(3):243-73
- “Does Agricultural Diversification Build Economic Resilience to Drought and Flood? Evidence from Poor Households in Zambia”, *African Journal of Agricultural and Resource Economics*, 15(1): 65-80 [with Chonabayashi S* and Quo Y]
- 2019 “Decadal Climate Variability Impacts on Weather and Crop Yields”, *Journal of Agricultural and Applied Economics*, 51(1): 104-125 [with McCarl B and Wu X]
- 2018 “Sugar-Sweetened Beverage Demand of Supplemental Nutrition Assistance Participants: A Case of Two New England States”, *Applied Health Economics and Health Policy*, 16(4): 549-558 [with Andreyeva T]
- “Influence of Decadal Climate Variability on Growing Degree Day, Precipitation, and Drought in Crop-growing Seasons”, *Climate: Special Issue on Decadal Variability and Predictability of Climate*, 6(2): 43-56
- “Gender Wage Inequality in Thailand”, *Applied Economics Journal*, 25(1): 79-97
- 2013 “Dynamics of Lake-Level Fluctuations and Economic Activity”, *Journal of Environmental Planning and Management*, 57(10): 1497-1514 [with Rogers G* and Saginor J]
- 2012 “Variations in the Availability and Price of Healthier Food Options by Store Type and Urban-Rural Setting”, *Journal of Hunger and Environmental Nutrition*, 7(4): 381-400 [with Sharkey J and Dean W]
- 2008 “Forecasting on Dynamic Panel Regression with Cross Section Dependency: Asian Exchange Rates and Simulation”, *Journal of Thai Statistical Association*; 6(2): 143-161

Book Chapters

- 2026 “Estimating the impact of droughts and floods on African farmers”, *Handbook on Climate Change Impacts, Mitigation, and Adaptation in Agriculture*, Ariel Dinar and Robert Mendelsohn (Eds.), Edward Elgar Publishing Ltd [with Chonabayashi S*]
- “Climate Resilience Investments and Agricultural Household Livelihoods: Lessons from a Climate-Vulnerable Economy (forthcoming)”, *Climate Change in the Tropics: Understanding and Addressing the Impacts of Climate Change to Tropical Regions*, Nhan Nguyen and Walter Leal (Eds.), Springer Nature [with Chonabayashi S]
- 2022 “Labour Skills, Economic Returns, and Automatability in Thailand”, Chapter 10, *Harnessing Digitalization for Sustainable Economic Development: Insights for Asia*, Beirne J & Fernandez DG, Tokyo, Asian Development Bank Institute

Policy Reports and Discussion Papers

- 2025 “Analysis of Changes in Thailand’s Income Distribution from 2013 to 2021 Using Growth Incidence and Delta Lorenz Curves”, PIER Discussion Papers 227, Bank of Thailand [with Leelahanon S*]
- 2024 “Report on the Study of the Development of a Universal Pension System for Thai Citizens” (in Thai), House Committee on Social Welfare, House of Representatives, Thailand [with Laovakul D et al.]
- “Analysis of Changes in Thailand’s Income Distribution from 2013 to 2021 using Growth Incidence and Delta Lorenz Curves”, Discussion Paper No.86, Faculty of Economics, Thammasat University [with Leelahanon S*]
- “Distribution of Personal Income Tax and Household Value Added Tax Burden of Thai Households by Wealth Cohort in 2013 and 2021” (in Thai), Discussion Paper No.87, Faculty of Economics, Thammasat University [with Sangtaweewan P* and Thapcharoen P*]
- “Land Use and Land Administration for Agriculture” (in Thai), Agricultural Research Development Agency, Thailand [with Laovakul D*]
- 2023 “Strengthening Strategic Purchasing in Southeast Asia: The Case of Thailand”, National University of Singapore

Policy Reports and Discussion Papers, *continued*

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| | “Fiscal space, revenue sources, and the political economy feasibility of establishing a National Pension Scheme”, National Research Council of Thailand |
| | “Factors affecting the production efficiency of rubber farmers in Thailand”, Discussion Paper No.73, Faculty of Economics, Thammasat University |
| 2022 | “Impacts of Climate Change and Agricultural Diversification on Agricultural Production Value of Thai Farm Households”, PIER Discussion Paper No.184 |
| | “Economics Status of Vulnerable Households and Key Considerations on Social Protection” (in Thai), Discussion Paper No.67, Faculty of Economics, Thammasat University |
| 2021 | “Questing for Sustainable Fiscal Space of Universal Health Coverage and Simulation of Health Worker Network Redistribution” (in Thai), Health Systems Research Institute |
| 2019 | “Impact Evaluation of the Service Delivery Grants to Improve Quality of Health Care Delivery in Cambodia Baseline Study Report”, World Bank Group |
| 2017 | “Cambodia: Sustaining Strong Growth for the Benefit of All. Systematic Country Diagnostic”, World Bank Group |
| 2016 | “Thailand - Systematic Country Diagnostic: Getting Back on Track”, World Bank Group |
| 2013 | “Malaysia Economic Monitor: High-performing Education”, World Bank Group |

Invited Talks and Conference Presentations

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| 2026 | Lead Organizer and Discussant: “ <i>Dialogue on the Political Economy of UHC Financing</i> ”, Thammasat University; National University of Singapore; Harvard University |
| 2025 | Invited speaker: “ <i>From Data to Decisions: Deep Learning Opportunities for Credit Risk Modeling</i> ”, Credit Risk Model Community Thailand |
| | Invited speaker: “ <i>Using GenAI for Stock Market Prediction</i> ”, Brown Bag Seminar, Thammasat University |

Invited Talks and Conference Presentations, *continued*

- Invited speaker: *"Introductory Deep Learning: Basics & Lab"*, Faculty of Economics, Khon Kaen University
- 2024 Keynote speaker: *"Food Security in Asia"*, ASOSAI Working Group on Climate Management Audit
- Invited speaker: *"Deep Learning for Economic Research and Business Analytics"*, Khon Kaen University
- Invited speaker: *"The Use of Generative Adversarial Networks (GANs) for Economic Research"*, Thammasat University

Teaching

- 2026 **Deep Learning & Lab**, Faculty of Economics, Khon Kaen University, Thailand
- 2022-2026 **Introductory Deep Learning, Undergraduate**, Faculty of Economics, Thammasat University, Thailand
- Introductory Deep Learning, Master Program & MBE**, Faculty of Economics, Thammasat University, Thailand
- Introductory Econometrics, Undergraduate**, Faculty of Economics, Thammasat University, Thailand
- Introductory Public Economics, Undergraduate**, Faculty of Economics, Thammasat University, Thailand
- Introductory Macroeconomics, Undergraduate**, Thammasat Business School, Thammasat University, Thailand
- 2018 **Stata Programming and Analysis of Health Survey Data**, Health and Nutrition Team, World Bank Phnom Penh Office
- Labor Economics (visiting lecturer), Master Program**, Faculty of Economics, Khon Kaen University, Thailand
- International Economics (visiting lecturer), Undergraduate**, Faculty of Economics, Khon Kaen University, Thailand

Teaching, *continued*

2015-2018	Development Economics (visiting lecturer), Undergraduate , Faculty of Economics, Khon Kaen University, Thailand
2016	Stata Programming and Poverty Analysis , Statistical Forecasting Bureau, National Statistical Office
2014-2015	Stata Programming, Benefit Incidence Analysis, and Impact Evaluation , Planning and Research Department, Ministry of Education Malaysia
2007-2008	Econometrics II, Graduate (TA) , Faculty of Economics, Thammasat University, Thailand
2007	Business Research Methodology, Undergraduate , Suan Sunandha University, Thailand
2006	Game Theory, Undergraduate (TA) , Faculty of Economics, Thammasat University, Thailand
2005	Probability and Statistics, MBA (TA) , International College of Management, Mahidol University, Thailand
2003	Mathematics for Economists, Undergraduate (TA) , Faculty of Economics, Thammasat University, Thailand

Honors, Fellowships, and Grants

2025-2026	Principal Investigator (PI), “Using Generative Artificial Intelligence for Directional Prediction and Anomaly Detection in the Stock and Exchange Rate Markets”, Fundamental Fund 2569, Thailand Science Research and Innovation Principal Investigator (PI), “Dynamics of Government Bond Yield Curve and Risk Assessment of Corporate Debentures”, Capital Market Development Fund Principal Investigator (PI) and Co-Founder, Thammasat University Research Unit in Deep Learning and Advanced Econometrics, Thammasat University
2024	Principal Investigator (PI), “Generative Artificial Intelligence for Detection of Market Crash”, Faculty of Economics, Thammasat University
2023	Principal Investigator (PI), “Production Efficiency of Thai Rubber Farmers”, TU SDGs (Sustainable Development Goals) Research Grant, Thammasat University

Honors, Fellowships, and Grants, *continued*

- 2022 **Distinguished Alumni Award**, Faculty of Economics, Khon Kaen University
National Research Award (Economics Discipline), National Research Council of Thailand
- 4/2021-2/2022 Principal Investigator (**PI**), “Fiscal Space, Revenue Sources, and Political Economic Feasibility of the Establishment of the National Pension Scheme: An Analysis Reflecting the COVID-19 Impacts on the Elderly Population”, National Research Council of Thailand for the Foundation of Thai Gerontology Research and Development Institute
- 2/2021-1/2022 Co-Principal Investigator (**Co-PI**), “Impacts of Climate Change and Agricultural Diversification on Productivity and Income of Thai Farm Households: Applying Satellite Remote Sensing Data with Household Surveys”, Puey Ungphakorn Institute for Economic Research, Bank of Thailand [with Voravee Saengavut]
- 2019-2020 Fulbright U.S.-ASEAN Visiting Scholarship (Final Candidate), Institute of International Education, U.S. Department of State’s Bureau of Educational and Cultural Affairs
 Takemi Fellowship in International Health, Department of Global Health and Population, Harvard T.H. Chan School of Public Health, Harvard University
 Principal Investigator (**PI**), “Questing for Sustainable Universal Health Coverage in Thailand”, Health Systems Research Institute, Ministry of Public Health
- 2012-2013 Department of Agricultural Economics Graduate Assistantship, Texas A&M University (funded by NSF, USDA, and NOAA)
 Department of Agricultural Economics Scholarship, Texas A&M University
- 2012 Rudd Center for Food Policy and Obesity Internship, Yale University (funded by USDA’s ERS and Rudd Foundation)
 Agribusiness Case Competition Award, the International Food and Agribusiness Management Association (IFAMA), Shanghai, China
 Student Financial Assistance for the 22nd World Symposium, the International Food and Agribusiness Management Association (IFAMA)’s 22nd World Meeting Travel Funding, the Association of Former Students, Texas A&M University
 Travel Grant, Department of Agricultural Economics, Texas A&M University

Honors, Fellowships, and Grants, *continued*

2011-2012	Texas A&M Health Science Center Graduate Assistantship, School of Public Health, Texas A&M University (funded by NIH and CDC)
2011	Gamma Sigma Delta (ΓΣΔ), International Honor Society of Agriculture Scholarship for the Economics and Child Nutrition Programs Workshop, the Agricultural & Applied Economics Association (AAEA) Foundation Department of Marketing Graduate Assistantship, Texas A&M University Graduate Student Research and Presentation Grant, the Association of Former Students and the Office of Graduate Studies, Texas A&M University, Summer Graduate Student Association Travel Scholarship, Department of Agricultural Economics, Texas A&M University
2010-2011	Hazard Reduction and Recovery Center Graduate Assistantship, College of Architecture, Texas A&M University
2010	Department of Agricultural Economics Scholarship, Texas A&M University
2002–2004	Diethelm Fellowship, Thammasat University

Professional Activities

2017–present	Referee service for <i>Journal of Finance and Data Science</i> , <i>Knowledge-Based Systems</i> , <i>Review of Development Economics</i> , <i>American Journal of Agricultural Economics</i> , <i>Agricultural Economics</i> , <i>Climatic Change</i> , <i>Journal of Agricultural and Applied Economics</i> , <i>Applied Economics Journal</i> , <i>Journal of Family Medicine and Disease Prevention</i> , <i>Journal of Global Health Science</i> , <i>Journal of Human Resources</i> , <i>Advances in Nutrition and Food Science</i> , and <i>Creative Business and Sustainability Journal</i> .
2025	Sub-committee on the Negative Income Tax, <i>Committee on Social Welfare</i> , <i>Secretariat of the House of Representatives</i> , Thailand
2024-2025	Subject Matter Expert on the Promotion of Elderly Rights, Human Rights Assembly 2025, <i>National Human Rights Commission</i> , Thailand
2023-2024	Secretary, National Old-Age Pension Sub-committee, <i>Committee on Social Welfare</i> , <i>Secretariat of the House of Representatives</i> , Thailand

Professional Activities, *continued*

2022-2023	Technical Committee on the Policy Direction Framework for Income Security in Old Age, <i>15th National Health Assembly, National Health Commission, Thailand</i>
2014-2016	Thesis Committees (external), M.S. in Agricultural and Resource Economics, Kasetsart University
2013-2014	Core Working Member, Steering Committee on National Education Resource Efficiency (Chaired by the Deputy Minister of Education), Thailand
2013	Lead Organizer, Texas A&M Anti-Racism Seminar , Texas A&M University
2012	Lead Organizer, Building a Culture of Peace: Seminar & Exhibition , Texas A&M University

Certificates

2013	Machine Learning, Stanford University via Coursera (Online Course)
2000	Visual Basic for Database Management and SQL with Microsoft Access, Faculty of Science and Technology, Thammasat University

Last updated: May 3, 2026