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Scholar: [Google Scholar](#)

Professional Experience and Positions

2021–present	Faculty of Economics, Thammasat University 1/2025–present – Associate Professor 12/2022–1/2025 – Assistant Professor 10/2021–12/2022 – Lecturer
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
2025–present	Head and Co-Founder , Thammasat University Research Unit in Economic, Financial, and Business Analysis with Deep Learning and Advanced Econometrics
2026–present	Business Advisor , Central Laboratory (Thailand) Co., Ltd.
2019–2020	Research Fellow , 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

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

Research Grants and Sponsored Projects

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 Economic, Financial, and Business Analysis with 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
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	Principal Investigator (PI), “Questing for Sustainable Universal Health Coverage in Thailand”, Health Systems Research Institute, Ministry of Public Health

Peer-Reviewed Articles

Note: * denotes lead author.

- 2026 “Analysis of Policy Impact on Thailand’s Income Distribution in the Last Decade”, *Economic Modelling*, 162, 107682 [with Leelahanon S*]
- “Advancing strategic health purchasing for primary healthcare in Southeast Asia: A comparative policy analysis of Indonesia, the Philippines, Thailand and Vietnam”, *International Journal of Health Policy and Management*, 15:9326 [with Barcellona C*, Caampued M, Dewi S, Gorospe J, Nguyen PK, Nguyen HT, Nugraha RR, Ong DT, Vidal G, Wattanakulchai P, and Prem K]
- 2025 “Dilemma of CO2 Mitigation: Effects of Climate, CO2, and Technological Progress on Rice Yields”, *Climate Change Economics*, 16(2):1-9 [with Huang YK*, Fei CC, Attavanich W, Han DB, and McCarl B]
- “Technical Efficiency Estimation of Rubber Farming in Thailand”, *Southeast Asian Journal of Economics*, 13(3):113-159 [with Leelahanon S* and Amornratananukroh N]
- 2024 “Impacts of Climate Change and Agricultural Diversification on Agricultural Production Value of Thai Farm Households”, *Climatic Change*, 177(112) [with Prommawin B*, Svavasu N*, Tanpraphan S*, Saengavut V, Attavanich W, and McCarl BA]
- “Revisiting a Decade of Inequality in Healthcare Financial Burden in Cambodia, 2009–19: Trends, Determinants and Decomposition”, *International Journal for Equity in Health*, 23(196) [with Fernandes Antunes A*, Hohmann J, Flessa S]
- 2023 “The Effect of Climate Change and Agricultural Diversification on the Total Value of Agricultural Output of Farm Households in Sub-Saharan Africa”, *African Journal of Agricultural and Resource Economics*, 18(2):152-170
- “Cost Variations in Outpatient and Inpatient Services among Three Health Insurance Schemes in Thai Public Hospitals” (in Thai), *Journal of Health Systems Research*, 17(4):684-698
- 2022 “Improving Allocative Efficiency from Network Consolidation: A Solution for the Health Workforce Shortage”, *Human Resources for Health*, 20(59):1-12

Peer-Reviewed Articles, *continued*

- “Sensitivity Analysis and Methodological Choices on Health-Related Impoverishment Estimates in Cambodia, 2009 to 2017”, *Health Policy and Planning*, 16(1):5-15 [with Fernandes Antunes A*, Jacobs B, Nagpal S, Tong K, Flessa S]
- “Inequity by the Universal Coverage Cube: Findings from the 2020 Household Socio-Economic Survey” (in Thai), *Journal of Health Systems Research*, 16(1):5-15
- 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):243-273
- “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]

Peer-Reviewed Articles, *continued*

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| 2012 | “ Variations in the Availability and Price of Healthier Food Options by Store Type and Urban-Rural Setting ”, <i>Journal of Hunger and Environmental Nutrition</i> , 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”, <i>Journal of Thai Statistical Association</i> , 6(2):143-161 |

Book Chapters

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| 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 [with Chonabayashi S*]

“Climate Resilience Investments and Agricultural Household Livelihoods: Lessons from a Climate-Vulnerable Economy (forthcoming)”, <i>Climate Change in the Tropics: Understanding and Addressing the Impacts of Climate Change to Tropical Regions</i> , Nhan Nguyen and Walter Leal (Eds.), Springer Nature [with Chonabayashi S] |
| 2022 | “ Labour Skills, Economic Returns, and Automatability in Thailand ”, Chapter 10, <i>Harnessing Digitalization for Sustainable Economic Development: Insights for Asia</i> , Beirne J & Fernandez DG, Tokyo, Asian Development Bank Institute |

Policy Reports and Discussion Papers

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| 2026 | “ A Technical and Political Analysis of Fiscal Space and Revenue Resources of Universal Health Coverage in Thailand ”, Discussion Paper No.111, Faculty of Economics, Thammasat University |
| 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*] |

Policy Reports and Discussion Papers, *continued*

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| 2024 | <p>“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.]</p> <p>“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*]</p> <p>“Land Use and Land Administration for Agriculture” (in Thai), Agricultural Research Development Agency, Thailand [with Laovakul D*]</p> |
| 2023 | <p>“Strengthening Strategic Purchasing in Southeast Asia: The Case of Thailand”, National University of Singapore</p> <p>“Fiscal Space, Revenue Sources, and the Political Economy Feasibility of Establishing a National Pension Scheme”, National Research Council of Thailand</p> <p>“Factors Affecting the Production Efficiency of Rubber Farmers in Thailand”, Discussion Paper No.73, Faculty of Economics, Thammasat University</p> |
| 2022 | <p>“Impacts of Climate Change and Agricultural Diversification on Agricultural Production Value of Thai Farm Households”, PIER Discussion Paper No.184</p> <p>“Economics Status of Vulnerable Households and Key Considerations on Social Protection” (in Thai), Discussion Paper No.67, Faculty of Economics, Thammasat University</p> |
| 2021 | <p>“Questing for Sustainable Fiscal Space of Universal Health Coverage and Simulation of Health Worker Network Redistribution” (in Thai), Health Systems Research Institute</p> |
| 2019 | <p>“Impact Evaluation of the Service Delivery Grants to Improve Quality of Health Care Delivery in Cambodia Baseline Study Report”, World Bank Group</p> |
| 2017 | <p>“Cambodia: Sustaining Strong Growth for the Benefit of All. Systematic Country Diagnostic”, World Bank Group</p> |
| 2016 | <p>“Thailand - Systematic Country Diagnostic: Getting Back on Track”, World Bank Group</p> |
| 2013 | <p>“Malaysia Economic Monitor: High-performing Education”, World Bank Group</p> |

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 | <p>Invited speaker: <i>“From Data to Decisions: Deep Learning Opportunities for Credit Risk Modeling”</i>, Credit Risk Model Community Thailand</p> <p>Invited speaker: <i>“Using GenAI for Stock Market Prediction”</i>, Brown Bag Seminar, Thammasat University</p> <p>Invited speaker: <i>“Introductory Deep Learning: Basics & Lab”</i>, Faculty of Economics, Khon Kaen University</p> |
| 2024 | <p>Keynote speaker: <i>“Food Security in Asia”</i>, ASOSAI Working Group on Climate Management Audit</p> <p>Invited speaker: <i>“Deep Learning for Economic Research and Business Analytics”</i>, Khon Kaen University</p> <p>Invited speaker: <i>“The Use of Generative Adversarial Networks (GANs) for Economic Research”</i>, Thammasat University</p> |
| 2023 | <p>Lead Organizer and Presenter, Seminar: <i>“The Successes of Strategic Purchasing for UHC in Thailand”</i>, organized by Faculty of Economics, Thammasat University and School of Public Health, National University of Singapore</p> <p>Invited speaker: <i>“Impacts of Climate Change and Agricultural Diversification on Agricultural Production Value of Thai Farm Households”</i>, The 10th CU-NTU-TU Trilateral Workshop in Economics, Thammasat University</p> <p>Invited speaker: <i>“Impacts of Climate Change and Agricultural Diversification on Agricultural Production Value of Thai Farm Households”</i>, Symposium 2023 Climate Change, Agriculture, and Food Security : The Growing Interaction, Kasetsart University</p> <p>Invited speaker: <i>“Overviews of Geopolitics in Global Health through the Lens of Economics”</i>, Series of Special Tutorial “Geopolitics and Health”, Scientific Advisory Group (International Health Policy Program)</p> |

Invited Talks and Conference Presentations, *continued*

Elderly Welfare Policy Advocate: *“Answering the People’s Needs: Political Parties and Welfare Policies for the Elderly”* (in Thai), Nationally-broadcasted Policy Dialogue: Engaging with 9 Political Parties, organized by Faculty of Economics, Thammasat University; National Health Commission Office; International Health Policy Program, Ministry of Public Health; Consumer Council of Thailand; and Thai Public Broadcasting

Lead Organizer and Presenter, Policy Dialogue: *“National Pension System for Justice and Sustainability: Towards Political Party Policies on Social Protection for the Elderly”* (in Thai), organized by Faculty of Economics, Thammasat University and National Health Commission Office

Invited Speaker, Annual Knowledge Fair: *“Development of The National Pension System and Support for Subsistence Allowance”* (in Thai), organized by Foundation of Thai Gerontology Research and Development Institute (TGRI) and Thai Health Promotion Foundation

2022 [Invited speaker](#), Virtual book launch: *“Harnessing Digitalization for Sustainable Economic Development: Insights for Asia”*, Tokyo, Asian Development Bank Institute

“Impacts of Climate Change and Agricultural Diversification on Agricultural Production Value of Thai Farm Households”, *National Conference of Economists : NCE*, Faculty of Economics, Khon Kaen University [Svavasun N]

“Economics Status of Vulnerable Households and Key Considerations on Social Protection” (in Thai), *National Conference of Economists : NCE*, Faculty of Economics, Khon Kaen University [Foongpiriya P*]

Invited speaker, TSRI Policy Forum: *“Draft National Pension Act - Considerations for the desirable pension system”* (in Thai), Thailand Science Research and Innovation (TSRI) and the Secretariat of the House of Representatives of Thailand

Invited speaker, Brown Bag Seminar: *“Are robots and artificial intelligence the opportunities or risks? - Technical analysis and political economic perspective”* (in Thai), Faculty of Economics, Kasetsart University

Invited Talks and Conference Presentations, *continued*

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| | <p>“A Technical and Political Analysis of Fiscal Space and Revenue Resources of Universal Health Coverage in Thailand”, <i>11th Annual Conference of the American Society of Health Economists</i>, Austin, TX (accepted)</p> <p>“Improving Allocative Efficiency from Network Consolidation: A Solution for the Health Workforce Shortage”, <i>11th Annual Conference of the American Society of Health Economists</i>, Austin, TX (accepted)</p> |
| 2020 | <p>“Effects of CO₂ and Climate on Rice Yields Over Time”, <i>Agricultural & Applied Economics Association (AAEA) Annual Meeting</i>, Kansas City, MO [with Huang YK*, et al.]</p> <p>“Questing for Sustainable Fiscal Space of Universal Health Coverage”, Poster Presentation, <i>Prince Mahidol Award Conference (PMAC)</i>, Thailand</p> |
| 2019 | <p>Invited speaker: “Climate Resilience in Agricultural Households: A Study from Sub-Saharan Africa”, <i>Agricultural & Seminar on Impacts of Climate Change on Food Security, Environment and Economy</i>, Jeju, Korea [with Chonabayashi S, et al.]</p> |
| 2016 | <p>“Demand Estimation With Constrained Zero-Inflated Generalized Additive Model: A Monte Carlo Simulation”, <i>International Conference in Applied Statistics</i>, Thailand</p> |
| 2012 | <p>“Food and Oil Price: Dynamic Conditional Correlation Multivariate GARCH Analysis”, <i>IFAMA's 22nd Annual World Symposium</i>, Shanghai, China</p> <p>“Global Commodity Price Volatilities”, <i>IFAMA's 22nd Annual World Symposium</i>, Shanghai, China [with Xu J*]</p> |
| 2011 | <p>“U.S. Alcohol Consumption Analysis: Tax Instrument Variables in Quadratic Almost Ideal Demand System (QUAIDS) Approach”, <i>AAEA & NAREA Joint Annual Meeting</i>, Pittsburgh, PA</p> |
| 2010 | <p>“Alcohol Consumption Analysis: Tax Instrument Variables in Quadratic Almost Ideal Demand System (QUAIDS)”, <i>International conference on Recent Developments in Statistics, Applied Econometrics and Forecasting</i>, Allahabad, India (accepted)</p> |

Invited Talks and Conference Presentations, *continued*

	“Alcohol Consumption: Tax Instrumental Variables in Quadratic Almost Ideal Demand System (QUAIDS) with clustered data”, <i>International Conference On Applied Economics</i> , Athens, Greece (accepted)
2007	“Quantile Regression Analysis of Adolescent Alcohol Consumption”, <i>Proceeding in the 5th National Conference on Statistics and Applied Statistics</i> , Thailand; Page 291-298
	“Comparison of Nonparametric Dynamic Panel Data Models: GDP Growth in OECD Countries”, <i>Proceeding in the 5th National Conference on Statistics and Applied Statistics</i> , Thailand; Page 216-223
	“Forecasting Models on Time Series Data for Computational Engineer Applications”, <i>Proceeding in the 4th International Joint Conference on Computer Science and Software Engineering (JCSSE)</i> , Thailand; Page 42-46
2006	“A Study on Thai Exchange Rate Volatility Model Comparison: Nonparametric Approach”, <i>Proceeding in the 4th National Conference on Statistics and Applied Statistics</i> , Thailand; Page C10-C13

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

Teaching, *continued*

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
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 and Fellowships

2022	Distinguished Alumni Award , Faculty of Economics, Khon Kaen University
	National Research Award (Economics Discipline), National Research Council of Thailand

Honors and Fellowships, *continued*

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
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
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 ($\Gamma\Sigma\Delta$), 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

Honors and Fellowships, *continued*

2002–2004	Diethelm Fellowship, Thammasat University
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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, 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, Sub-committee of National Old-Age Pension, <i>Committee on Social Welfare, Secretariat of the House of Representatives</i> , Thailand
2022–2023	Technical Committee on the Policy Direction Framework for Income Security in Old Age, <i>15th National Health Assembly, National Health Commission</i> , Thailand
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)
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Certificates, *continued*

2000	Visual Basic for Database Management and SQL with Microsoft Access, Faculty of Science and Technology, Thammasat University
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Last updated: August 12, 2026