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Education

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| 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

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|-----------------------------|---|
| 10/2021-
<i>present</i> | Lecturer , Faculty of Economics, Thammasat University |
| 2013- <i>present</i> | Economic Consultant , World Bank Group |
| 2005-2009,
3/2021-2/2022 | Telecom Business Consultant , Electricity Generating Authority of Thailand, Thailand |
| 2019-2020 | Takemi Research Fellow , Department of Global Health and Population, Harvard T.H. Chan School of Public Health, Harvard University |
| 2012-2013 | Research Assistant , Department of Agricultural Economics, 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 |
| 2011 | Research Assistant , Department of Marketing, Texas A&M University |
| 2010-2011 | Research Assistant , Hazard Reduction and Recovery Center, Texas A&M University |
| 2007-2008 | Researcher , Office of Industrial Economics, Ministry of Industry, Thailand |
| 2005-2006 | Business Consultant , Thailand Post Company Limited, Thailand |
| 2004-2006 | Research Assistant , Health Promotion Foundation, Office of Prime Minister, Thailand |
| 2004-2005 | Research Assistant , National Economic and Social Development Board, Thailand |
| 2003 | Data Analyst , MFC Asset Management Public Company, Thailand |
| | Research Assistant , Faculty of Economics, Thammasat University, Thailand |
| 2002-2003 | Research Assistant , Thailand Development Research Institute, Thailand |

Peer-Reviewed Articles

- 2022 "Improving Allocative Efficiency from Network Consolidation: A Solution for the Health Workforce Shortage", *Human Resources for Health*, forthcoming
- "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):243-73
- "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

Peer-Reviewed Reports and Presentations

- 2022 "A Technical and Political Analysis of Fiscal Space and Revenue Resources of Universal Health Coverage in Thailand", *11th Annual Conference of the American Society of Health Economists*, Austin, TX (accepted)
- "Improving Allocative Efficiency from Network Consolidation: A Solution for the Health Workforce Shortage", *11th Annual Conference of the American Society of Health Economists*, Austin, TX (accepted)
- "Impacts of Climate Change and Agricultural Diversification on Productivity and Income of Thai Farm Households: Applying Satellite Remote Sensing Data with Household Surveys", *PIER Research Workshop*, Puey Ungphakorn Institute for Economic Research, Bank of Thailand (accepted)
- "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
- Invited speaker, Virtual book launch: "*Harnessing Digitalization for Sustainable Economic Development: Insights for Asia*", Tokyo, Asian Development Bank Institute
- 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
- 2021 "*Questing for Sustainable Fiscal Space of Universal Health Coverage and Simulation of Health Worker Network Redistribution*" (in Thai), Nonthaburi, Health Systems Research Institute
- 2020 "Effects of CO2 and Climate on Rice Yields Over Time", *Agricultural & Applied Economics Association (AAEA) Annual Meeting*, Kansas City, MO [with Huang YK*, et al.]
- "Questing for Sustainable Fiscal Space of Universal Health Coverage", Poster Presentation, *Prince Mahidol Award Conference (PMAC)*, Thailand
- 2019 "*Impact Evaluation of the Service Delivery Grants to Improve Quality of Health Care Delivery in Cambodia Baseline Study Report*", Washington, D.C., World Bank Group [with Nagpal S*, et al.]
- "Climate Resilience in Agricultural Households: A Study from Sub-Saharan Africa", *Agricultural & Seminar on Impacts of Climate Change on Food Security, Environment and Economy*, Jeju, Korea [with Chonabayashi S, et al.]
- 2017 "*Cambodia : Sustaining Strong Growth for the Benefit of All. Systematic Country Diagnostic.*", Washington, D.C., World Bank Group [with Sanchez Martin ME*, et al.]
- 2016 "*Thailand - Systematic Country Diagnostic: Getting Back on Track - Reviving Growth and Securing Prosperity for All.*", Washington, D.C., World Bank Group (with Sondergaard LM*, et al.)

Peer-Reviewed Reports and Presentations, *continued*

- "Demand Estimation With Constrained Zero-Inflated Generalized Additive Model: A Monte Carlo Simulation", *International Conference in Applied Statistics*, Thailand
- 2015 "Small-School Networking: A Simulation for Solution to Fundamental Problem in Education Quality", in *Grouping Thailand's Schools into Four Categories*, Bangkok; TDRI and World Bank Thailand
- 2013 "*Malaysia Economic Monitor: High-performing Education.*", Washington, D.C., World Bank Group [with Sander FG*, et al.]
- 2012 "Food and Oil Price: Dynamic Conditional Correlation Multivariate GARCH Analysis", *IFAMA's 22nd Annual World Symposium*, Shanghai, China
- "Global Commodity Price Volatilities", *IFAMA's 22nd Annual World Symposium*, Shanghai, China [with Xu J*]
- 2011 "U.S. Alcohol Consumption Analysis: Tax Instrument Variables in Quadratic Almost Ideal Demand System (QUAIDS) Approach", *AAEA & NAREA Joint Annual Meeting*, Pittsburgh, PA
- 2010 "Alcohol Consumption Analysis: Tax Instrument Variables in Quadratic Almost Ideal Demand System (QUAIDS)", *International conference on Recent Developments in Statistics, Applied Econometrics and Forecasting*, Allahabad, India (accepted)
- "Alcohol Consumption: Tax Instrumental Variables in Quadratic Almost Ideal Demand System (QUAIDS) with clustered data", *International Conference On Applied Economics*, Athens, Greece (accepted)
- 2007 "Quantile Regression Analysis of Adolescent Alcohol Consumption", *Proceeding in the 5th National Conference on Statistics and Applied Statistics*, Thailand; Page 291-298
- "Comparison of Nonparametric Dynamic Panel Data Models: GDP Growth in OECD Countries", *Proceeding in the 5th National Conference on Statistics and Applied Statistics*, Thailand; Page 216-223
- "Forecasting Models on Time Series Data for Computational Engineer Applications", *Proceeding in the 4th International Joint Conference on Computer Science and Software Engineering (JCSSE)*, Thailand; Page 42-46
- 2006 "A Study on Thai Exchange Rate Volatility Model Comparison: Nonparametric Approach", *Proceeding in the 4th National Conference on Statistics and Applied Statistics*, Thailand; Page C10-C13

Selected Works in Progress or Under Review

- 2022 “Practice Variations in Outpatient and Inpatient Treatments from Different UHC Schemes in the Public Hospitals”, Working Paper
- “Rice, Carbon Dioxide, Climate Change, and Feeding the Future”, Working Paper [with Huang YK*, et al.]
- “Fiscal Space and Revenue Resources of Universal Health Coverage in Thailand”, Working Paper
- “Impacts of Climate Change and Agricultural Diversification on Productivity and Income of Thai Farm Households: Applying Satellite Remote Sensing Data with Household Surveys”, Working Paper [with Prommawin B, Svavasu N, Tanpraphan S, Saengavut V, Attavanich W, and McCarl BA]
- 2021 “Increased Multi-sectoral Financing and Its Effect on Mortality and Life Expectancy in 196 Countries between 1996 and 2017”, Working Paper [with Steinert J, Karlsson O, De Neve JW, et al.]
- “*Agricultural Diversification and Climate Resilience: A Synthesis of the Evidence from Zambia*”, Washington, D.C., World Bank Group. [with Chonabayashi S* and Quo Y]
- “Agricultural Diversification and Climate Resilience in Sub-Saharan Africa”, Working Paper [with Chonabayashi S* and Quo Y]
- 2018 “Nutrition Knowledge, Attitudes, and Practices (KAP) Household Survey 2017 Baseline Report HGNDP and SSFSN”, World Bank Group, Lao PDR [with Feldhaus I*, Nagpal S, et al.]
- 2017 “Health Care Delivery in a Himalayan State of India: Baseline Study from the Uttarakhand Health Systems Development Project (UKHSDP)”, World Bank Group, India [with Bauhoff S, Nagpal S, et al.]

Teaching

- 2022 **Introductory Econometrics, Undergraduate**, Faculty of Economics, Thammasat University, Thailand
- Introductory Public Economics, Undergraduate**, Faculty of Economics, Thammasat University, Thailand
- 2018 **Stata Programming and Analysis of Health Survey Data**, Health and Nutrition Team, World Bank Phnom Penh Office
- Labor Economics, Master Program**, Faculty of Economics, Khon Kaen University, Thailand
- International Economics, Undergraduate**, Faculty of Economics, Khon Kaen University, Thailand
- 2015-2018 **Development Economics, Undergraduate**, Faculty of Economics, Khon Kaen University, Thailand

Teaching, *continued*

2016	Stata Programming and Poverty Analysis , Statistical Forecasting Bureau, Thailand's 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 (Visiting Lecturer) , 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

2022	National Research Award (Economics Discipline), National Research Council of Thailand
4/2021-2/2022	Lead Co-Principal Investigator (Lead Co-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" (\$50,000), National Research Council of Thailand for the Foundation of Thai Gerontology Research and Development Institute
2/2021-1/2022	Principal Investigator (PI), "Impacts of Climate Change and Agricultural Diversification on Productivity and Income of Thai Farm Households: Applying Satellite Remote Sensing Data with Household Surveys" (\$9,800), Puey Ungphakorn Institute for Economic Research, Bank of Thailand
2019-2020	Principal Investigator (PI), "Questing for Sustainable Universal Health Coverage in Thailand" (\$36,000), Health Systems Research Institute, Thailand's Ministry of Public Health Takemi Fellowship in International Health, Department of Global Health and Population, Harvard T.H. Chan School of Public Health, Harvard University
2019	Fulbright U.S.-ASEAN Visiting Scholarship (Final Candidate), Institute of International Education, U.S. Department of State's Bureau of Educational and Cultural Affairs
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)

Honors, Fellowships, and Grants, *continued*

	Agribusiness Case Competition Award, the International Food and Agribusiness Management Association (IFAMA), Shanghai, China
	Student Financial Assistance for the 22 nd World Symposium, the International Food and Agribusiness Management Association (IFAMA)'s 22 nd World Meeting
	Travel Grant, Department of Agricultural Economics, Texas A&M University
	Travel Funding, the Association of Former Students, 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	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
	Scholarship for the Economics and Child Nutrition Programs Workshop, the Agricultural & Applied Economics Association (AAEA) Foundation
	Gamma Sigma Delta ($\Gamma\Sigma\Delta$), International Honor Society of Agriculture
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

Software

Programming and algorithms	Complex database management (Stata, SAS, R, GAUSS, and MS Excel); Experimental design to estimate consumer willingness-to-pay (Stata, SAS); Constrained optimization for demand systems with NLSUR (Stata); Stochastic volatility models using MCMC algorithms (Matlab); MLE for ARMA and ARCH/GARCH models (GAUSS); Nonparametric kernel, local polynomial, and Fourier series estimators with cross-validation bandwidth (GAUSS); Nonparametric volatility models (Matlab, GAUSS); Bayesian Truncated Tobit model with multivariate normal-inverse gamma prior distributions (Matlab); Remote parallel supercomputing (Matlab on EOS nodes); Visual Basic programming for SQL on DBMS (Microsoft Access); Logistic regression with regularization algorithm (Octave); Neural networks prediction function and learning (Octave); Support vector machine with Gaussian kernel (Octave); K-Means clustering and principal component analysis (Octave); Anomaly detection using filtering gradient with regularization (Octave)
Econometrics and Statistics	Stata, Matlab, SAS, R, Gauss, Octave, SPSS, GAMS

Software, *continued*

Others | SQL, QGIS, ArcGIS

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

Professional Activities

2017- <i>present</i>	Referee service for <i>Journal of Agricultural and Applied Economics</i> , <i>Agricultural Economics</i> , <i>Applied Economics Journal</i> , <i>Journal of Family Medicine and Disease Prevention</i> , <i>Journal of Global Health Science</i> , <i>Advances in Nutrition and Food Science</i>
2014-2016	Thesis Committees, M.S. in Agricultural and Resource Economics, Kasetsart University
2013-2014	Core Working Member, Steering Committee on the 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

Updated May 3, 2022