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## Education

2014	<b>Ph.D. in Agricultural Economics</b> , Texas A&M University
2005	<b>M.A. in Economics</b> , Thammasat University
1999	<b>B.Sc. in Economics</b> , Khon Kaen University

## Professional Experience and Positions

10/2021- <i>present</i>	<b>Lecturer</b> , Faculty of Economics, Thammasat University
6/2022- <i>present</i>	<b>Country Convenor for Thailand</b> , Strategic Healthcare Purchasing project for Southeast Asia, Saw Swee Hock School Of Public Health, National University of Singapore
2013- <i>present</i>	<b>Economic Consultant</b> , World Bank Group
2005-2009, 3/2021-2/2022	<b>Telecom Business Consultant</b> , Electricity Generating Authority of Thailand, Thailand
2019-2020	<b>Takemi Research Fellow</b> , Department of Global Health and Population, Harvard T.H. Chan School of Public Health, Harvard University
2012-2013	<b>Research Assistant</b> , Department of Agricultural Economics, Texas A&M University
2012	<b>Visiting Scholar</b> , Rudd Center for Food Policy and Obesity, Yale University
2011-2012	<b>Research Assistant</b> , Texas A&M School of Public Health
2011	<b>Research Assistant</b> , Department of Marketing, Texas A&M University
2010-2011	<b>Research Assistant</b> , Hazard Reduction and Recovery Center, Texas A&M University
2007-2008	<b>Researcher</b> , Office of Industrial Economics, Ministry of Industry, Thailand
2005-2006	<b>Business Consultant</b> , Thailand Post Company Limited, Thailand
2004-2006	<b>Research Assistant</b> , Health Promotion Foundation, Office of Prime Minister, Thailand
2004-2005	<b>Research Assistant</b> , National Economic and Social Development Board, Thailand
2003	<b>Data Analyst</b> , MFC Asset Management Public Company, Thailand
	<b>Research Assistant</b> , Faculty of Economics, Thammasat University, Thailand
2002-2003	<b>Research Assistant</b> , 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*, 20(59):1-12
- "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 [“Impacts of Climate Change and Agricultural Diversification on Agricultural Production Value of Thai Farm Households”](#), PIER Discussion Paper No.184 [with Prommawin B\*, Svavasu N\*, Tanpraphan S\*, Saengavut V, Attavanich W, and McCarl BA]
- “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 Agricultural Production Value of Thai Farm Households”, *PIER Research Workshop*, Puey Ungphakorn Institute for Economic Research, Bank of Thailand [Nattanun Svavasu\*]
- “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 [Nattanun Svavasu\*]
- [“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.]

Peer-Reviewed Reports and Presentations, *continued*

- 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.)
- “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 22<sup>nd</sup> Annual World Symposium*, Shanghai, China
- “Global Commodity Price Volatilities”, *IFAMA's 22<sup>nd</sup> 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
- 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]

## 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
- 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

Teaching, *continued*

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|------|---|
| 2005 | <b>Probability and Statistics, MBA (TA)</b> , International College of Management, Mahidol University, Thailand |
| 2003 | <b>Mathematics for Economists, Undergraduate (TA)</b> , Faculty of Economics, Thammasat University, Thailand    |

## Honors, Fellowships, and Grants

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| 2022          | Distinguished Alumni Award (Faculty of Economics), Khon Kaen University<br>National Research Award (Economics Discipline), National Research Council of Thailand   |
| 4/2021-2/2022 | Principal Investigator ( <b>PI</b> ), “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 | Co-Principal Investigator ( <b>Co-PI</b> ), “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 ( <b>PI</b> ), “Questing for Sustainable Universal Health Coverage in Thailand” (\$36,000), Health Systems Research Institute, Thailand’s Ministry of Public Health<br>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)<br>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)<br>Agribusiness Case Competition Award, the International Food and Agribusiness Management Association (IFAMA), Shanghai, China<br>Student Financial Assistance for the 22 <sup>nd</sup> World Symposium, the International Food and Agribusiness Management Association (IFAMA)’s 22 <sup>nd</sup> World Meeting<br>Travel Grant, Department of Agricultural Economics, Texas A&M University<br>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)  |

## Honors, Fellowships, and Grants, *continued*

2011	<p>Department of Marketing Graduate Assistantship, Texas A&amp;M University</p> <p>Graduate Student Research and Presentation Grant, the Association of Former Students and the Office of Graduate Studies, Texas A&amp;M University, Summer</p> <p>Graduate Student Association Travel Scholarship, Department of Agricultural Economics, Texas A&amp;M University</p> <p>Scholarship for the Economics and Child Nutrition Programs Workshop, the Agricultural &amp; Applied Economics Association (AAEA) Foundation</p> <p>Gamma Sigma Delta (<math>\Gamma\Sigma\Delta</math>), International Honor Society of Agriculture</p>
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
Others	SQL, QGIS, ArcGIS

## Certificates

2013	Machine Learning, Stanford University via <a href="#">Coursera</a> (Online Course)
2000	Visual Basic for Database Management and SQL with Microsoft Access, Faculty of Science and Technology, Thammasat University

## Professional Activities

2017-present	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, <a href="#">Texas A&amp;M Anti-Racism Seminar</a> , Texas A&M University
2012	Lead Organizer, <a href="#">Building a Culture of Peace: Seminar &amp; Exhibition</a> , Texas A&M University

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