

# TANAPONG POTIPITI

## ADDRESS

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## EDUCATION

University of Wisconsin-Madison, Ph.D., Economics, 2006  
Thammasat University, M.A., Economics, 1999  
Chulalongkorn University, B.E., Computer Engineering, 1996

## FULLTIME EMPLOYMENT EXPERIENCE

<b>Associate Dean</b> (IT and innovation)	Faculty of Economics Chulalongkorn University, Bangkok, Thailand	04/24-present
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<b>Associate Professor</b>	Faculty of Economics Chulalongkorn University, Bangkok, Thailand	05/14-present
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<b>Associate Dean</b> (IT and innovation)	Faculty of Economics Chulalongkorn University, Bangkok, Thailand	04/16-03/20
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<b>Assistant Professor</b>	Faculty of Economics Chulalongkorn University, Bangkok, Thailand	02/10-02/15
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<b>Lecturer</b>	Faculty of Economics Chulalongkorn University, Bangkok, Thailand	10/06-02/10
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<b>Teaching Assistant</b>	University of Wisconsin-Madison	07/03-12/05
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<b>Research Assistant</b>	Wisconsin, USA	12/05-12/05
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Taught Tutorial Sessions. Data collecting and performing statistical analysis on the research project on determinants of internet accession using cross-country data.

<b>Visiting Scholar</b>	World Trade Organization (WTO) Geneva, Switzerland	05/05-09/05
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Developed a theoretical model to explain the role of the export subsidy prohibition agreement in the WTO.

**Intern** International Monetary Fund (IMF) 06/04-09/04  
Washington, DC

Studied empirically the impacts of the EU accession on trade, foreign direct investment, and migration among the EU member countries.

**Visiting Researcher** United Nations University 09/99 - 10/99  
Tokyo, Japan

Designed a Thai language converter for a multilingual machine translation project.

**Assistant Researcher** National Electronics and Computer 10/97-06/01  
Technology Center (NECTEC)  
Bangkok, Thailand

Developed algorithms for Thai-word segmentation and word-sense disambiguation under the English-Thai machine-translation project suparsit.com. Developed the core algorithm for the Thai search engine.

### CONSULTING JOB

**Data Sci Advisor** The Red Carbon, 12/24 - present  
Providing technical advice on business intelligence and marketing data analytics

**Data Sci Advisor** Honda R&D Southeast Asia, 05/24 - present  
Providing technical advice on business intelligence and marketing data analytics

**Data Sci Advisor** 118Sigma Co., Ltd, 06/19 - present  
Providing technical advice on economic and machine learning issues on investment projects

**Data Sci Advisor** Backyard Co., Ltd, 06/19 - 08/22  
Providing technical advice on economic and machine learning issues on various projects

### HONORS AND AWARDS

Stock Exchange of Thailand Research Rising Star Award 2025, *Evaluating AI Agents as Financial Advisors*, (with Kawaree Uransilp)

Stock Exchange of Thailand Research Young Researcher Award 2023, *Machine learning for Thai Stock Prediction: A Data-Centric Approach*, (with Surapas Kongjantra)

Stock Exchange of Thailand Research Award 2020. *Predicting Market Crashes Using Systemic Risk And Volatility Spillovers: A Deep Learning Approach*, (with Kornprarun Mahutchariyakul)

Chulalongkorn University Staff of the Year Award (Applying IT for Management), 2018

Japan-IMF scholarship for graduate studies in economics, 2001-2002

WTO Ph.D. support program, 2005

National Electronics and Computer Center Staff of the Year, 2000

Thailand's representative in the 33rd International Mathematical Olympiad (IMO) Competition, Moscow, Russia, 1992

## **ECONOMICS PUBLICATIONS: BOOKS**

*Changes in world trade patterns and its impacts on Thailand's export trade patterns and structural changes*, Chulalongkorn University Press, 2019 (in Thai, with Kornkarun Cheewatrakoolpong, Panutat Satchachai, Nath Bunditwattanawong, Arpakorn Nopparattayaporn)

*Numerical Methods for Economists*, Chulalongkorn University Press, 2014 (in Thai)

*Behavioral Economics and Food Consumption*, Behavioral Economic Network for Promoting Thai Health, 2016 (in Thai, with Nopphol Witvorapong, San Sampattavanija, Thanee Chaiwat, and Pacharasut Sujarittanonta)

## **ECONOMICS PUBLICATIONS: RESEARCH ARTICLES**

Data Augmentation for Stock Return Prediction, *IAES International Journal of Artificial Intelligence*, December 2022, 11(4), 1563-1569 (with Win Supanwanid) ([PDF](#))

Why Does the WTO Treat Export Subsidies and Import Tariffs Differently?, *Review of World Economics*, February 2022, 1-36. (with Wisarut Suwanprasert) ([PDF](#))

Responsiveness to Incentives in Organ Donation Decisions: A Laboratory Experiment, *Thammasat Review*, July-December 2021, 24(2): 193-213 (with Pathomwat Chantarasap) ([PDF](#))

Friends and Exam Cheating: an Experimental Study in Thailand, *Kasetsart Journal of Social Sciences*, *Kasetsart Journal of Social Sciences*, May-Aug 2020, 41:2, 250-255 (with Sorravich Kingsuwankul) ([PDF](#))

Media and Cheating: An Experimental Study in Thailand, *Southeast Asian Journal of Economics*, Jan-June 2020, 8:1, 21-37 (with Kiriya Kulkolkarn and Thanee Chaiwat) ([PDF](#))

Default Option Bias in the Food Consumption of College Students in Bangkok, *Thailand and World Economy*, 2019, 7:2, 64-77 (with Thanee Chaiwat, Nopphol Witvorapong, Pacharasut Sujarittanont, San Sampattavanija, and Thira Worathanarat) ([PDF](#))

Effectiveness of Nutrition Information Provision on Food Consumption Behavior among Undergraduate Students in Urban Areas, *Journal of Health System Research*,

September 2017, 11:3, 299-315 (with Nopphol Witvorapong, San Sampattavanija, Thanee Chaiwat, Pacharasut, Sujarittanonta and Thira Woratanarat) ([PDF](#))

The Determinants of Outward FDI of Thai Firms, *Southeast Asian Journal of Economics*, December 2015, 3:2, 43-59 (with Kiriya Kulkolkarn) ([PDF](#))

New normal in international trade and its impact on the Thai economy, *Bank of Thailand Symposium 2015 Discussion paper*, (with Arpakorn Nopparattayaporn Kornkarun Cheewatrakoolpong, Nath Bunditwattanawong and Panutat Satchachai)

Does exporting increase the productivity of Thai firms via linkage spillovers?, *UN ARTNet Working Paper Series No. 141* (with Kornkarun Cheewatrakoolpong), February 2014

Import Tariffs and Export Subsidies in the WTO: A Small Country Approach, *UN ARTNet Working Paper Series No. 119*, September 2012

Cost of Action, Perceived Intention, Positive Reciprocity, and Signaling Model, *Journal of Business and Policy Research*, September 2012, 178-194 (with Kornpob Bhirombhakdi)

Performance of a Reciprocity Model in Predicting a Positive Reciprocity Decision, *Chulalongkorn Journal of Economics*, 2011, 77-93 (with Kornpob Bhirombhakdi)

Public Goods Game Experiments in Thailand: Social Capital and Other Determinants of Contributions, *Thammasat Economic Journal*, 2012, 30:2, 70-105

Optimal Selling Mechanisms with Countervailing Positive Externalities and an Application to Tradable Retaliation in the WTO, *Journal of Mathematical Economics*, 2010, 46:6, 825-843 (with Bo Chen)

Aging Society and Production Structure of Thailand, *Demographic Change and Macroeconomy of Thailand* (edited by Worawet Suwanrada) 2010, pp. 71-102 (with Kiriya Kulkolkarn, in Thai)

Migration and Aging Society in Thailand, *Demographic Change and Macroeconomy of Thailand* (edited by Worawet Suwanrada) 2010, 103-152 (with Kiriya Kulkolkarn, in Thai)

Output Convergence among Provinces in Thailand, *Thammasat Economics Journal*, 2009, 27:4, 1-21.

Reputation in an Environment with Adaptive Customers, *Chulalongkorn Journal of Economics*, 2009, 21:3, 147-159.

Immigration and Native Wages: An S-Curve Relationship, *Thammasat Economics Journal*, 2009, 27:4, 22-33. (with Kiriya Kulkolkarn)

Determinants of Happiness and Academic Performance of Economics Students, *Chulalongkorn Journal of Economics*, 2008, 20:3, 183-200. (with Lalita Tuntivarodom)

Migration Wages and Unemployment in Thailand, *Chulalongkorn Journal of Economics*, 2007, 19:1, 1-22 (with Kiriya Kulkolkarn)

When Will We Ever Learn? An Economic Analysis of Vote Buying, *Kasetsart Journal of Economics*, 2000, 7:2, 161-173. (with Kiriya Kulkolkarn and Supruet Thavorniyutikarn)

## **MACHINE LEARNING PUBLICATION**

Data Augmentation for Stock Return Prediction, *IAES International Journal of Artificial Intelligence*, December 2022, 11(4), 1563-1569 (with Win Supanwanid) ([PDF](#))

Thai Lexical-semantic Annotation by UW, *Proceedings of WAINS7*, 2000 (with Virach Sornlertlamvanich and Thatsanee Charoenporn)

UNL Document Summarization. *Proceedings of the First International Workshop on Multimedia Annotation*, 2001 (with Virach Sornlertlamvanich and Thatsanee Charoenporn)

Towards an Intelligent Multilingual Keyboard System, *Proceedings of the First International Conference on Human Language Technology Research*, 2001 (with Virach Sornlertlamvanich and Kanokwut Thanadkran)

State of the art in Thai Language Processing, *Proceedings of the 38th Annual Meeting on Association for Computational Linguistics*, 2000 (with Virach Sornlertlamvanich, Chai Wutiwiwatchai and Pradit Mittrapiyanuruk)

Automatic Corpus-based Thai Word Extraction with the C4.5 Learning Algorithm, *Proceedings of the 18th Conference on Computational Linguistics*, 2000 (with Virach Sornlertlamvanich and Thatsanee Charoenporn)

Towards Building a Corpus-based Dictionary for Non-word-boundary Languages, *Workshop on Terminology Resources and Computation, Workshop Proceedings of the Second International Conference on Language Resources and Evaluation*, 2000 (with Virach Sornlertlamvanich and Thatsanee Charoenporn)

## **RESEARCH GRANTS**

Thailand Institute of Justice, *Innovation in Thai legal industry, 2025* (with Thanee Chaiwat and Jaruwat Amesbutra)

Capital Market Research Institute, the Stock Exchange of Thailand, *Evaluating AI Agents as Financial Advisors, 2025*, (with Kawaree Uransilp)

Program Management Unit on Area Based Development, Ministry of Higher Education, *Behavioral economics experiments to strengthen participation in local government*, 2024 (with Thanee Chaiwat and Pathomwat Chantarasap )

Puey Ungphakorn Institute for Economic Research, Bank of Thailand, *Productivity Effects of Generative Artificial Intelligence: an Experimental Study in Thailand*, 2023 (with Voraprapa Nakavachara and Thanee Chaiwat)

Capital Market Research Institute, the Stock Exchange of Thailand, *Machine learning for Thai Stock Prediction: A Data-Centric Approach*, 2023, (with Surapas Kongjantra)

Securities and Exchange Commission, *Thai Investors' Behaviors in Mutual Fund Investment*, 2022 (with Thanee Chaiwat and Sothitorn Mallikamas)

Capital Market Research Institute, the Stock Exchange of Thailand, *Predicting Market Crashes Using Systemic Risk And Volatility Spillovers: A Deep Learning Approach*, 2020, (with Kornprarun Mahutchariyakul) ([PDF](#))

Research Center, Faculty of Economics, Chulalongkorn University, *Should All Blockchain-Based Digital Assets be Classified Under the Same Asset Class?*, 2019, (with Voraprapa Nakavachara)

Research Center, Faculty of Economics, Chulalongkorn University, *Word Power: the Effect of FOMC Statement on the US Stock Market*, 2018, (with Pongsak Luangarm)

National Research Council, *Cheating in Thailand: An Experimental Study*, 2017

CBEE, Faculty of Economics, Chulalongkorn University, *Media and Cheating: An Experimental Study in Thailand*, 2016, (with Thanee Chaiwat and Kiriya Kulkolkarn)

Thailand Health Promotion Foundation, *Developing Behavioral Economic Network for Promoting Thai Health*, 2014 - 2016 (with Nopphol Witvorapong, San Sampattavanija, Thanee Chaiwat, and Pacharasut Sujarittanonta)

Research Center, Faculty of Economics, Chulalongkorn University, *Do exports increase the productivity of domestic firms via backward linkages spillovers?* 2014 (with Kornkarun Cheewatrakoolpong)

Thailand Research Fund, *Impact of Thai Outward FDI to Exports and Value Added Spillovers through the Thai Economy*, 2015 (with Kornkarun Cheewatrakoolpong)

United Nations ARTNet Capacity Building, *Does export increase the productivity of domestic firms via backward linkages spillovers?* 2012 (with Kornkarun Cheewatrakoolpong)

Research Center, Faculty of Economics, Chulalongkorn University, *Happiness, and Public Goods Games*, 2010

Thailand Research Fund, *Demand of Foreign Migrants for the Aging Society in Thailand*, 2009 (with Kiriya Kulkolkarn)

Research Center, Faculty of Economics, Chulalongkorn University, *Income Convergence among Provinces in Thailand*, 2008

### **WORKING PAPERS**

*Experimenting with Generative AI: Does ChatGPT Really Increase Everyone's Productivity?*, PIER working paper, 2025 (with Voraprapa Nakavachara and Thanee Chaiwat) ([Link](#))

*Predicting Market Crashes Using Systemic Risk and Volatility Spillovers: A Deep Learning Approach*, 2020 (with Kornprarun Mahutchariyakul) ([PDF](#))

*Should All Blockchain-Based Digital Assets be Classified Under the Same Asset Class?*, 2019 (with Voraprapa Nakavachara and Thanawan Lertmongkolnam) ([PDF](#))

*Product Space and Thailand's Export Growth and Stability*, 2020 (with Rungrawin Warunanont) ([PDF](#))

### **CONSULTING PROJECTS**

Artificial Intelligence Data Platform For Facilitating International Trading	Ministry of Commerce	04/19 - 09/22
Estimating an appropriate price for a 3G spectrum auction.	National Broadcasting and Telecommunications Commission	04/12 - 10/12
Developing iron-price forecasting model using neural network.	Iron and Steel Institute of Thailand	12/11 - 04/12
Evaluating provincial border trading policies	National Budget Office	04/07 - 02/08

### **REFEREE ACTIVITY/ EDITORIAL SERVICE**

Editor: Southeast Asian Journal of Economics, 06/13 - 04/21  
Associate Editor: Southeast Asian Journal of Economics, 06/10 - 06/13  
Refereeing: Singapore Economic Review, Southeast Asian Journal of Economics, Journal of International Economics, Journal of Mathematical Economics, Thammasat Economics Journal

### **OTHER POSITIONS/ COMMITTEE**

Chairman for Behavioral and Experimental Economics (CBEE), Faculty of Economics, Chulalongkorn University, 04/08 - present

Director of Computing Center, Faculty of Economics, Chulalongkorn University, 04/20 - 06/22

Sub-committee for preparation of Digital PCN 1800 MHZ, National Broadcasting, and Telecommunication Commission, 08/12- 07/14

Director of Center of International Economic Studies, Faculty of Economics, Chulalongkorn University, 04/09 - 04/13

MA. Program Committee, Faculty of Economics, Chulalongkorn University, 04/09 - present

Ph.D. Program Committee, Faculty of Economics, Chulalongkorn University, 04/08 - 03/09

Director of Computing Center, Faculty of Economics, Chulalongkorn University, 04/08 - 03/09

The Organizer of Economics Faculty Free Lunch Seminar, 06/08 - 06/10  
Director of Computing Center, Faculty of Economics, Chulalongkorn University, 09/07-03/08

### **TEACHING EXPERIENCE**

**Universities:** University of Wisconsin-Madison (TA), Chulalongkorn University (Full Time Lecturer), University of Thai Chamber of Commerce (Visiting), Sasin Graduate Institute (Visiting)

### **COURSES TAUGHT**

Programming and Machine Learning for Economists (Master), Big Data in Economics Research (Master), Microeconomics (Ph.D.), Macroeconomics (Ph.D.), Numerical Methods in Economics (Ph.D.), Research Methods (Master), International Trade and Finance (Undergraduate), Industrial Organization and Strategic Trade Policies (Undergraduate), Game Theory (Master), Econometrics (Undergraduate), Math for Economists (Undergraduate)

### **NON-ACADEMIC PUBLICATION**

“Dataism: Humanism Disrupted” <http://www.thansettakij.com/content/371603>, Jan 2019

“Elon Musk: the Innovator” <http://www.thansettakij.com/content/273856>, April 2017

“Programming: Skills for the Future” <http://www.thansettakij.com/content/187936>, Aug 2017

“English Words and Their Stories,” a weekly column in Siamrat Weekly, May 2000 - Aug 2003 (with Kiriya Kulkolkarn) (in Thai)

“Vocabularies from English Movies,” a weekly column in Dailynews, May 2000 - Aug 2001 (with Kiriya Kulkolkarn) (in Thai)

### **HOBBIES**

Running, Reading, Badminton, Movie, Board Games, Bookclub