Curriculum Vitae

NAME: Uthumporn Panitanarak (Domthong)

OFFICE: Department of Biostatistics, Faculty of Public Health,
Mahidol University, Bangkok 10400
THAILAND

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EDUCATION

- **Pennsylvania State University, PA, USA (2014)**
  Ph.D. (Biostatistics) GPA: 3.80 / 4.00

- **Western Michigan University, MI, USA (2009)**
  M.Sc. (Statistics) GPA: 4.00 / 4.00

- **Khon Kaen University, Khon Kean, Thailand (2005)**
  B.Sc., 1st Class Honors (Mathematics) GPA: 3.64 / 4.00

CURRENT POSITION

- Lecturer at Department of Biostatistics, Faculty of Public Health, Mahidol University
  (June 1st, 2022 - present)
- Assistant Professor of Statistics, Department of Statistics, Faculty of Science, Khon Kaen University
  (February 25th, 2021 – May 31st, 2022)
- Lecturer at Department of Statistics, Faculty of Science, Khon Kaen University
  (January 5th, 2015 - February 24th, 2021)
- An Assistant Dean for International Relations, Faculty of Science, Khon Kaen University
  (September 1st, 2017- December 31st, 2018)
- An Assistant Dean for Research and International Relations, Faculty of Science, Khon Kaen University
  (April 1st, 2016 – August 31st, 2017)

RESEARCH INTEREST

Biostatistics, Applied Statistics, Design of Experiment

AWARDS, HONORS, AND SCHOLARSHIPS

- Certificate for publishing journal from ICAS 2015 from *Thailand Statistics Network* at the International Conference on Applied Statistics 2016 (ICAS 2016), Phuket, Thailand (July 13-15, 2016)

- Best Oral Presentation Award from *the International Conference on Applied Statistics 2015 (ICAS 2015)*, Pattaya, Thailand (July 15-17, 2015)
- Graduate Fellow, Department of Public Health Sciences, College of Medicine, The Pennsylvania State University, 2013 – 2014
- Full Scholarship from the *Royal Thai Government Scholarship*, 2007-2014
- Full Scholarship, *the Development and Promotion of Science and Technology Talents Project* (DPST) *of Royal Thai Government Scholarship*, 2000-2006

RESEARCH FUND

- Research Fund from National Science and Technology Development Agency: NSTDA (2019)
  Topic: Adjusted Regression Correlation Coefficient for Poisson Regression Model and Poisson Ridge Regression Model
- Research Fund from Khon Kaen University (2016)
  Topic: Equations for Estimating Body Weight from Anthropometric Measurements in Thai Adult Patients
- Research Fund from Faculty of Science, Khon Kaen University (2015)
  Topic: The Classification of Severity Level in Exertional Heatstroke Patients by Applying a Decision Tree Technique
- Research fund for teaching in English in Thai classroom from Institute of Teaching and Learning Innovation, Khon Kaen University (Mar 18th, 2015)

PUBLICATIONS

1. Koobubpha K, Panitanarak T, Domthong P, **Panitanarak U** (In press). The Maxwell – Burr X Distribution: Its Properties and Applications to the COVID-19 Mortality Rate in Thailand. Thailand Statistician.
2. Koowattanasuchat S, Ngernpimai S, Matulakul P, Thonghlueng J, Phanchai W, Chompoosor A, **Panitanarak U**, Wanna Y, Intharah T, Chootawiriyasakul K, Anata P, Chaimnee P, Thanan R, Sakonsinsiri C, Puangmali T (2023). Rapid detection of cancer DNA in human blood using cysteamine-capped AuNPs and a machine learning-enabled smartphone. RSC Adv. 13, 1301. DOI: 10.1039/d2ra05725e rsc.li/rsc-advances
3. Rattanachaiwong S, Pisprasert V, Hongsprabhas P, **Panitanarak U**, Larphun P (2022). Impedance change during intentional weight loss in Thai obese patients. Clinical Nutrition Open Science. 46. pp. 20-28. DOI: https://doi.org/10.1016/j.nutos.2022.11.004
4. Domthong P, Charoensri S, Khummuang T, **Panitanarak U** (2021). Efficacy of colistin monotherapy versus colistin-based combination therapy for multidrug-resistance Acinetobacter baumannii pneumonia. Mahasarakham Hospital Journal. 18(1). pp. 96-105.
5. **Panitanarak U**, Wattanathum A, Domthong P (2020). Clinical Relevance of Macrolide-resistant *Mycoplasma pneumoniae* in Respiratory Tract Infection. The Clinical Academia. 45(2). pp. 30-40.
6. Domthong P, **Domthong U**, Faisatjatham S (2019). Scoring System Predicting Mortality in Melioidosis. European Respiratory Journal. 54: PA2910. DOI**:** 10.1183/13993003.congress-2019. PA2910.
7. Kaengthong N, **Domthong U**. (2017). Modified Regression Correlation Coefficient for Poisson Regression Model. IOP Conf. Series: Journal of Physics: Conf. Series 890. DOI: 10.1088/1742-6596/890/1/012155. 012155.
8. **Domthong U**, Junsawang P, Wongsrichanalai V, Kittiworawittkul P, Domthong P (2017). The Classification of Severity Level in Exertional Heatstroke Patients by Applying a Decision Tree Technique. Thailand Statistician. 15(1). pp. 43-53.
9. Domthong P, **Domthong U**, Hansiriphan P, Wongsrichanalai V, Tanyaharn S, Wutthichan, Patumporn Jian-umpunkul V, Wattanathum A (2016). Macrolide-resistant *mycoplasma pneumoniae* in Respiratory Tract Infection and its Clinical Relevance. European Respiratory Journal. 48: PA2614. DOI**:** 10.1183/13993003.congress-.PA2614.

10. **Domthong U**, Parikh CR, Kimmel PL, Chinchilli VM, and the Assessment, Serial Evaluation, and Subsequent Sequelae of Acute Kidney Injury (ASSESS-AKI) Consortium (2014). Assessing the agreement of biomarker data in the presence of left censoring. BMC Nephrology, 15 (144). DOI: 10.1186/1471-2369-15-144.

PROCEEDING / CONFERENCES

1. Ishaq AI, Abiodun AA, **Panitanarak U** (2021) "Modelling Nigerian Naira to CFA Franc Exchange Rates with Maxwell-Exponentiated Exponential distribution" at 2021 International Conference on Data Analytics for Business and Industry (ICDABI), October 25-26, 2021; Online.
2. Ishaq AI, **Panitanarak U**, Abiodun AA, **Panitanarak U** (2021) "A New Maxwell-Log Logistic Distribution with Application to the COVID-19 Mortality Rate Data" at International Conference (Virtual mode) on Emerging trends in Statistics and Data Science in Conjunction with 40th Annual Convention of Indian Society for Probability and Stattistics (ISPS), September 7-10, 2021; Online.
3. Domthong P, Boonrod N, Srihawattana A, **Domthong U** (2020) "Pathway to quit: Strategies for smoking cessation in a resource-limited setting, lesson from Thailand" at the 13th Asia Pacific Conference on Tobacco or Health 2020 (APACT 2020), September 2-4, 2020; Bangkok, Thailand.
4. Domthong P, **Domthong U**, Faisatjatham S (2019) "Scoring system predicting mortality in melioidosis" at European Respiratory Society International Congress 2019 (ERS International Congress 2019), September 28-October 2, 2019; Madrid, Spain.
5. Wisetdee S, **Domthong U.** (2018) "Modified Estimators for Right-Censored Data in Multiple Linear Regression Model" Proceeding of International Conference on Applied Statistics 2018 (ICAS 2018), October 24-26, 2018; Bangkok, Thailand. pp 35-38.
6. Masa S, **Domthong U.** (2018) "Composite Imputation Method in Logistic Regression Analysis" Proceeding of International Conference on Applied Statistics 2018 (ICAS 2018), October 24-26, 2018; Bangkok, Thailand. pp 69-72.
7. Kaengthong N, **Domthong U.** (2017) "Modified Regression Correlation Coefficient for Poisson Regression Model" Proceeding of the 1st International Conference on Applied & Industrial Mathematics Statistic 2017 (ICoAIMS 2017), August 8-10, 2017, Vistana City Centre, Kuantan, Pahang, Malaysia.
8. Domthong P, **Domthong U**, Hansiriphan P, Wongsrichanalai V, Tanyaharn S, Wutthichan, Patumporn Jian-umpunkul V, Wattanathum A (2016) "Macrolide-resistant *Mycoplasma pneumonia* in respiratory tract infection and its clinical relevance" at European Respiratory Society International Congress 2016 (ERS International Congress 2016), September 3-7, 2016; London, United Kingdom.
9. Srisutham W, Klawkrathok S, **Domthong U.** (2016) "Equations for estimating body weight from anthropometric measurements in Thai adult patients" at the 5th Asian conference on Nonlinear Analysis and Optimization (NAO-Asia 2016), August 1-6, 2016; Toki Messe, Niigata, Japan.
10. Samranrom S**, Domthong U.** (2016) **"**Modified Ridge Parameters for the Logistic Regression Model" Proceeding of International Conference on Applied Statistics 2016 (ICAS 2016), July 13-15, 2016, Phuket Graceland Resort & Spa, Phuket, Thailand, pp. 53-57.
11. **Domthong U**, Junsawang P,Wongsrichanalai V, Kittiworawittkul P, Domthong P. (2015) "The Classification of Severity Level in Exertional Heatstroke Patients by Applying a Decision Tree Technique" at the International Conference on Applied Statistics (ICAS 2015) Conference, July 15-17, 2015; Pattaya, Thailand (Best Oral Presentation Award).
12. **Domthong U**, Parikh CR, Kimmel PL, Chinchilli VM. (2014) "Assessing the agreement of biomarker data in the presence of left-censoring" at Eastern North America Region (ENAR) Conference, March 16-19, 2014; Baltimore, USA.
13. **Domthong U**, Parikh CR, Kimmel PL, Chinchilli VM. (2014) "Multivariate Weibull Distribution on assessing the agreement of biomarker data" at Graduate Student Research Forum, March 4-5, 2014; College of Medicine, Pennsylvania State University, Hershey, USA.

SERVICES FOR STATISTICS COMMUNITY

1. Reviewer for Songklanakarin Journal of Science and Technology, May 2022
2. Reviewer for Science and Technology Journal Mahasarakham University, March 2022
3. Invited committee at National Glaucoma Conference, February 2022
4. Invited lecturer in Exploring and analyzing data by excel for lecturers at General education Teaching Institute, Khon Kaen University, September 2021
5. Reviewer for the King Mongkut's University of Technology Thonburi Research and Development Journal, May 2021
6. Invited speaker at Department of Mathematics and Computer Science, Faculty of Science, Chulalongkorn University, February 2021
7. Invited Lecturer in International Short Course in Research methodology and Biostatistics, Clinical Epidemiology Unit, Faculty of Medicine, Khon Kaen University, 2015-2022
8. Reviewer for the Journal of King Mongkut's University of Technology North Bangkok, March 2020
9. Consultant for Data Collecting System of Area Basis Structure Project for Efficient Water Resources Management of 25 Nationwide Watersheds operated by National Statistical Office of Thailand, Ministry of Information and Communication Technology, 2018- 2019
10. Invited Reviewer in International Short Course in Research methodology and Biostatistics, Clinical Epidemiology Unit, Faculty of Medicine, Khon Kaen University, November 2019
11. Reviewer for Pakistan Journal of Statistics, October 2019
12. Reviewer for National Undergraduate Conference on Statistics (NUCS 2019), April 2019
13. Invited speaker at Department of Biology, Faculty of Science, Hokkaido University, Japan, July 2018
14. Reviewer for KKU Research Journal (Graduate Studies), Graduate School, Khon Kaen University, June 2018
15. Reviewer for National Undergraduate Conference on Statistics (NUCS 2018), February 2018
16. Invited speaker at Department of Biochemistry, Faculty of Medicine, Khon Kaen University, September 2017
17. Invited Lecturer in the Faculty of Humanities and Social Sciences, Khon Kaen University, January 2017
18. Reviewer for the Journal of King Mongkut's University of Technology North Bangkok, November 2016
19. Reviewer for Chiang Mai Journal of Science, May 2016
20. Co-chairman in the International Conference on Applied Statistics (ICAS) Conference 2015, July 2015

TEACHING EXPERIENCE

Assistant Professor, Khon Kaen University, Department of Statistics

- 336 724 (Graduate) Design of Experiment, 2015-present
- 336 712 (Graduate) Statistical Inference, 2015-2018
- SC 612 201 Statistical Analysis II, 2020-present
- SC 613 204 Experimental Design, 2016-present
- SC 602 003 Elementary Statistics, 2018
- 316 205 Principles of Statistics, 2018
- 316 311 Statistical Theory II, 2017
- 316 231 Biometric, 2015-2016
- 316 204 Elementary Statistics, 2015-2017
- 316 891 Seminar in Statistics, 2015-2016
- 316 493 Statistical Project I, 2016-2017
- 316 494 Statistical Project II, 2015-2018

Teaching Assistant, Pennsylvania State University, Department of Statistics

- Stat 100, Statistical Concepts and Reasoning, Spring 2012
- Stat 200, Elementary Statistics, Spring 2009, Spring 2010
- Stat 500 (Graduate), Applied Statistics, Fall 2010, Fall 2011