Assoc. Prof. Boonorm Chomtee

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Keywords

Response Surface Designs,
Design of Experiments, Regression Models

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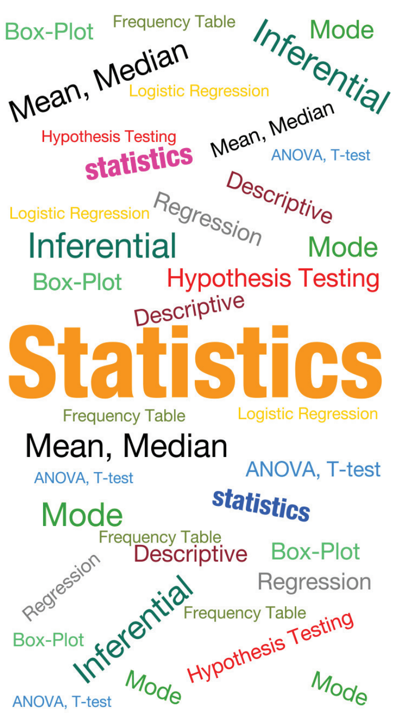

Research Focuses

- Design of Experiments
- Response Surface Methodology
- Regression Models

Publication

- Wanida Limmun, Boonorm Chomtee and John J. Borkowski. 2023. Generating Robust Optimal Mixture Designs Due to Missing Observation Using a Multi-Objective Genetic Algorithm. Mathematics. DOI: 10.3390/math11163558.
- Pattarawadee Sumthong Nakmee, Boonorm Chomtee, Methee Juntaropakorn, and Supranee Ngamprasit. 2023. Effects of Melaleuca cajuputi leaf extract on inhibition of seed germination and seedling growth of 12 weed species. Agriculture and Natural Resources. DOI: 10.34044/j.anres.2023.57.3.07.
- Chawanee Supirat, Boonorm Chomtee, and John J. Borkowski. 2022. The Effects of Sampling from Finite Populations in a Mixed Effects Gage R&R Study. Thailand Statistician. 20(3): 686-709.

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Keywords

Time Series Analysis, Imputaion Method, Response surface, Multivariate Analysis

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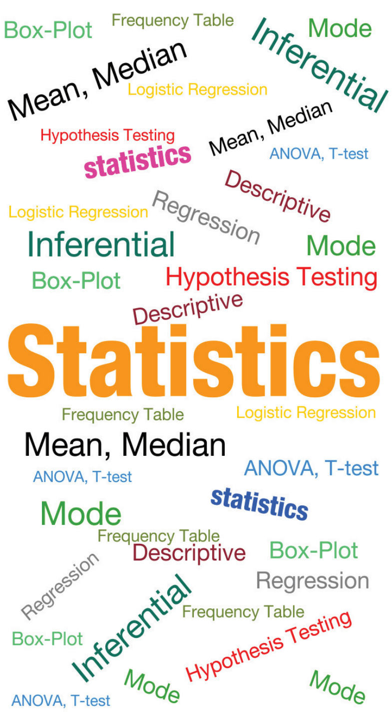

Research Focuses

- Time Series Analysis in data science
- Imputaion Method in missing data
- Response Surface Analysis for optimization
- Multivariate Analysis in medical research
- Clustering Analysis for biological data

Publication

- Wongoutong C. A modified weighting system for combined forecasting methods based on the correlation coefficients of the individual forecasting models. Pakistan Journal of Statistics and Operation Research. 2023 Sep 3:551-68.
- Junthopas W, Wongoutong C. Setting the Initial Value for Single Exponential Smoothing and the Value of the Smoothing Constant for Fore-casting Using Solver in Microsoft Excel. Applied Sciences. 2023 Mar 29;13(7):4328.
- Wongoutong C. Imputation methods for missing response values in the three parts of a central composite design with two factors. Journal of Statistical Computation and Simulation. 2022 Jul 24;92(11):2273-89.
- Wongoutong C. Imputation for consecutive missing values in non-stationary time series data. Advances and Applications in Statistics. 2020 Oct;64(1):87-102.

Asst. Prof. Jeeraporn Thaithanan

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Keywords

RegressionAnalysis, Time Series, Experimental Design

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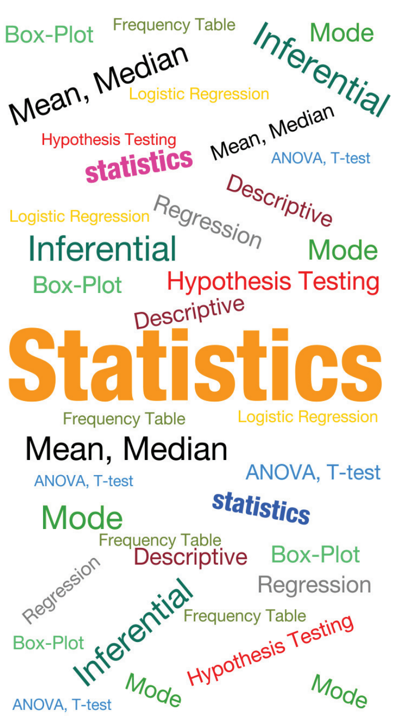
Research Focuses

- Applied Statistics
- Statistical Inference
- Regression Analysis
- Time SeriesAnalysis
- Experimental Design

Publication

- The efficiency of Ridge Estimations for Multi-collinearity Multiple Linear Regression: A Monte-Carlo Simulation-Based Study, 2564
- Comparing the efficiency levels of Multiple Comparison Methods for Normal Distributed Observations, 2565
- The impact of a random vector with variables from normal and non-normal-distributions on multivariate control charts, 2565



Assoc. Prof. Juthaphorn Sinsomboonthong

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Keywords

Inferential Statistics, Missing Data, Outliers, Control Chart, Machine Learning

Scopus

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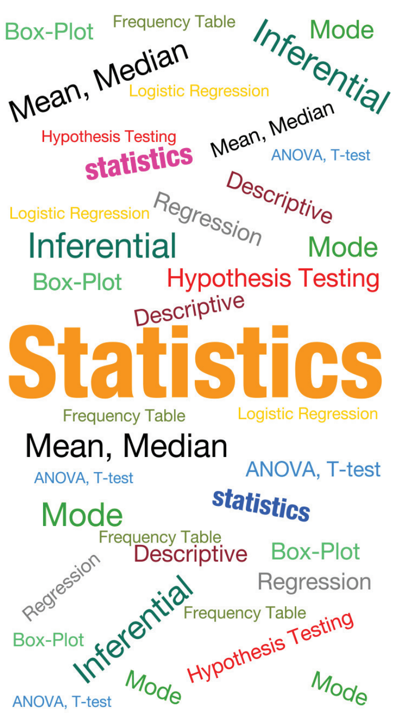

Research Focuses

- Point and Interval Estimations of Parameter
- Statistical Hypothesis Testing
- Statistical Quality Control
- Predictive Modeling
- Machine Learning

Publication

- Performance of Some Confidence Intervals for Estimating the Population Mean Under Contaminated Normal Distribution
- New Quality Control Chart to Quickly Detect the Changes of Process Average
- Estimation of the Population Mean for Incomplete Data by Using Information of Simple Linear Relationship Model in Data Set
- Weighted Maximum Likelihood Correlation Coefficient to Handle Missing Values and Outliers in Dataset

Assoc. Prof. Lily Ingsrisawang

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Keywords

Air pollution, GLMM, Frailty survival model, Disease mapping, Drug resistance

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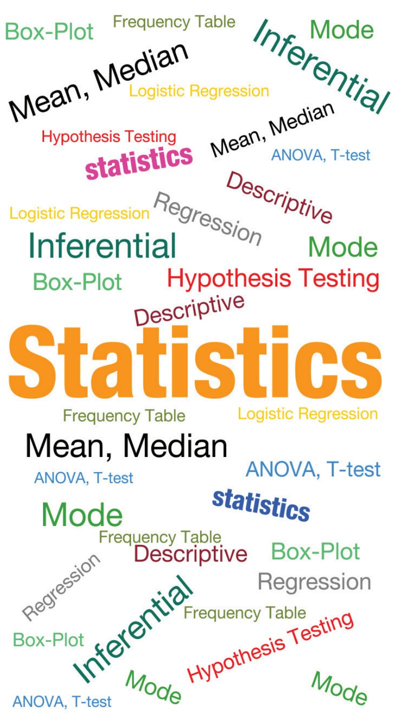

Research Focuses

- Environmental Health Studies
- Longitudinal and Survival Data Analysis
- Spatial-temporal Modelling
- Applying Data Science Techniques in
- Health Research

Publication

- Association between out-patient visits and air pollution in Chiang Mai, Thailand: Lessons from a unique situation involving a large data set showing high seasonal levels of air pollution. PLoS ONE 17(8): e0272995. https://doi.org/10.1371/journal.pone.0272995.
- A real-world study of effectiveness of intravitreal bevacizumab and ranibizumab injection for treating retinal diseases in Thailand. BMC Ophthalmology. https://doi.org/10.1186/s12886-019-1086-1.
- Comparison of nonparametric survival estimators for interval censoring mixed with right-censoring type I. Thailand Statistician.

Assoc. Prof. Mena Lao

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Keywords

Unequal probability sampling, Adaptive cluster sampling, Statistical modelling

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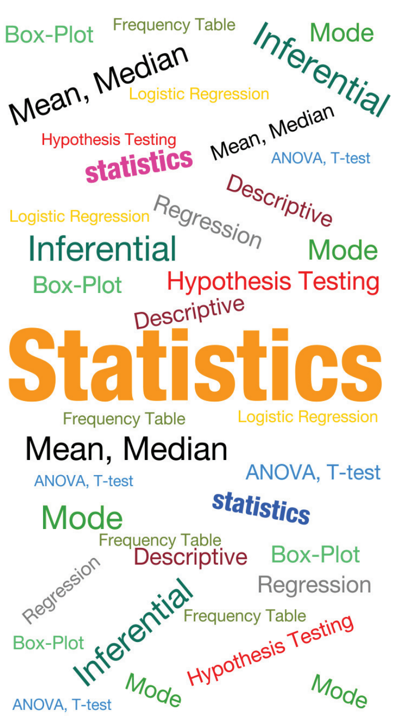

Research Focuses

- Sampling Designs
- Categorical data analysis
- Generalized Linear Models

Publication

- Lao, M. and Dryver, A. L. Adaptive cluster path sampling. Communications in Statistics Simulation and Computation (In Press).
- Lao, M., Lukusa T.M. Statistical approaches for assessing the effectiveness of safety devices used in preventing head injuries from motorcycle crashes. Case Studies on Transport Policy, 2023, 11: 100935
- Lao, M. Stratified Path Sampling. Thailand Statistician, 2022, 20(3): 562-574.
- Lao, M., Nidsunkid, S., Borkowski, J.J. A Regression Estimator in Path Sampling.
- International Journal of Mathematics and Computer Science, 2022, 17(2): 635-646

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Keywords

T-X family of Distribution, Missing Value

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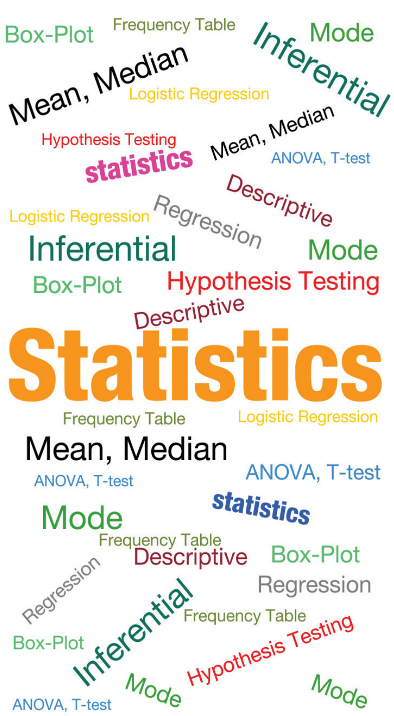
Research Focuses
- Anti-Retroviral Therapy
- T-X family of Distributions
- Discrete Probability Distributions
- Missing Value

Publication
- Treatment Outcomes After Switching to Second-Line Anti-Retroviral Therapy: Results From the Thai National Treatment Program, 2023
- People failing first-line regimens remain at risk for adverse second-line outcomes, 2023
- The Generalized Distributions on the Unit Interval based on the T-Topp-Leone Family, 2022
- A Comparison of the Imputation Methods for Missing Independent Variable in Binary Logistic Regression Analysis, 2018



Asst. Prof. Saowapa Chaipitak

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Keywords

Multivariate Normal Distribution, High-dimension Covariance Matrices, Multivariate Analysis

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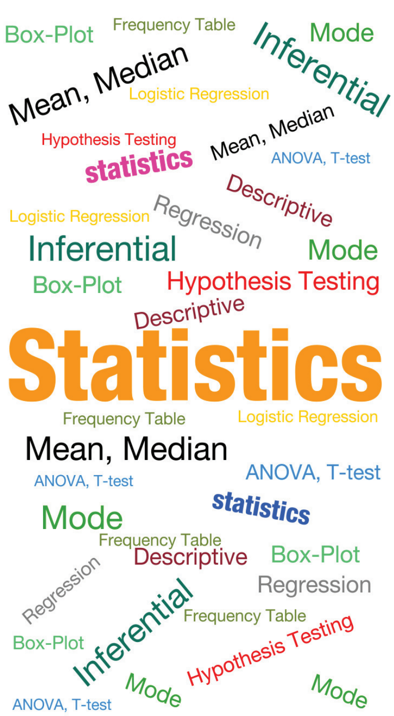

Research Focuses

- High-dimensional Data Analysis
- Time Series and Forecasting
- Stochastic Operations Research
- Markov Chains

Publication

- Chaipitak, S.and B. Choopradit. 2023. ARIMA for forecasting the exchange rate of the Thai Baht against the Chinese Yuan. Advances and Applications in Statistics. 84: 51-64.
- Chaipitak, S.2020. Time series ARIMA model for prediction of Thailand's monthly average cassava starch domestic price. Advances and Applications in Statistics. 63(2): 191-205.
- ณัชพล อธิประยูร, อำไพ ทองธีรภาพ และ เสาวภา ชัยพิทักษ์. 2563. การเปรียบเทียบวิธีการพยากรณ์สำหรับอนุกรมเวลาที่มีลักษณะไม่เป็นเชิงเส้นและไม่คงที่. วารสารวิทยาศาสตร์และเทคโนโลยี. 28(2): 197-207.
- ศศิภรณ์ สิทธิศร,เสาวภา ชัยพิทักษ์ และ ธิดาพร ศุภภากร. 2561. การเปรียบเทียบสถิติทดสอบความเท่ากันของเมทริกซ์ความแปรปรวนรวมสองประชากรสำหรับข้อมูลที่มีมิติสูง. วารสารวิทยาศาสตร์และเทคโนโลยี. 26(3): 429-437.
- Choopradit, B.,S.Chaipitakand S. Chongcharoen. 2015. Two-sample tests for high-dimensional repeated measures designs with unequal
- variances.The Thai Journal of Mathematics. Special issue on ICMSA2015 (2015), 2016, 211 – 226.
- Chaipitak, S.and B. Choopradit. 2013. The distribution of a consistent estimator of the traces ratio of two population covariance matrices. Science and Technology RMUTT Journal July – December 2013. 3(2): 45-50.
- Chaipitak, S.and S. Chongcharoen. 2013. A test for testing the equality of two covariance matrices for high-dimensional data. Journal of Applied Sciences. 13(2): 270-277.

Asst. Prof. Sawaporn Hinsheranan

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Keywords

sufficient reduction,
statistical process control,
health surveillance

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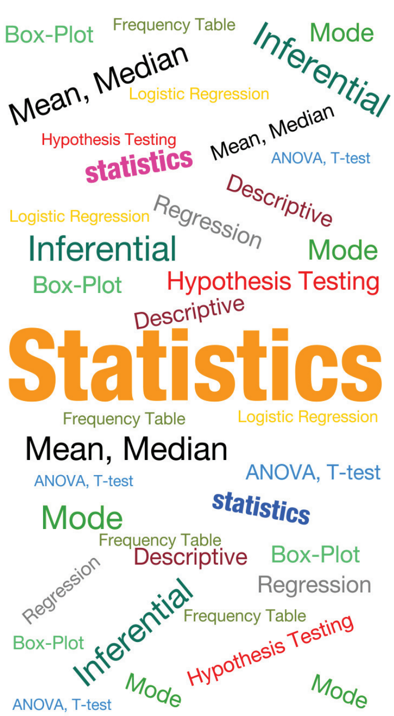

Research Focuses

- Dimensionality reduction
- Time series models and applications
- Statistical quality control
- Spatio-temporal analysis in health surveillance

Publication

- Hinsheranan, H. and Stillman, E. C. (2021). The robustness of sufficient reduction methods for detecting shifts of various types in multivariate processes. Quality and Reliability Engineering international. 37(5), 2276-2287.
- Saenkaing, A. and Hinsheranan, S. (2021). Efficiency comparison of control charts for monitoring a positive mean shift in Poisson process. The Journal of Applied Science. 20(2), 80-93.
- Thuathong, W. and Hinsheranan, S. (2021). Comparison of time series models forforecasting pneumonia cases in Thailand. Thai Science and Technology Journal. 29(3), 365-377.

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Keywords

Biostatistics,
Advanced regression/longitudinalanalysis,
survival analysis, meta-analysis

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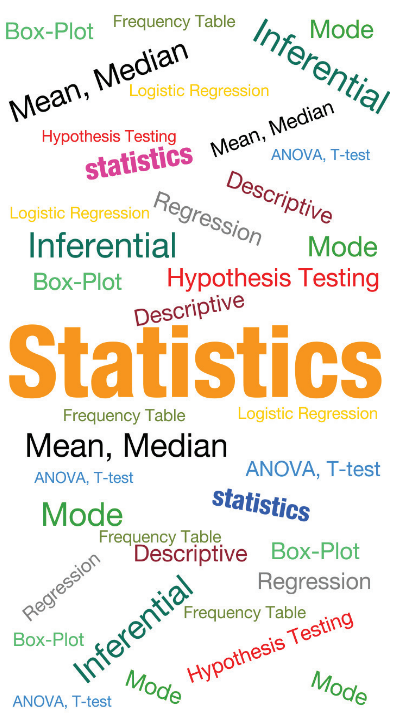

Research Focuses

- HIV epidemiology and treatment outcomes and infectious disease related
- Mental health and social sciences
- Life expectancy and excess mortality
- Applied machine learning for predictive model in healthcare

Publication

- Life expectancy of HIV-positive people after starting combination antiretroviral therapy: a meta-analysis (2017).
- Life expectancy after initiation of combination antiretroviral therapy in Thailand (2017).
- Virological failure and treatment switch after ART initiation among people living with HIV with and without routine viral load monitoring in Asia (2022).
- Long-term outcomes of rapid antiretroviral NNRTI-based initiation among Thai youth living with HIV: a national registry database study(2023).

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Keywords

Statistical Quality Control,
Multivariate Control Charts,
Path Sampling

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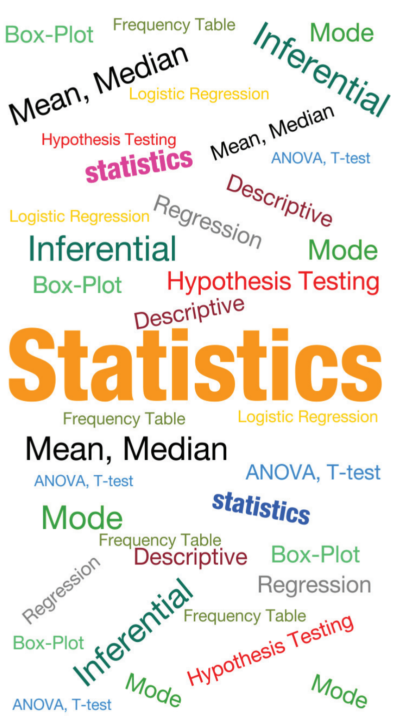

Research Focuses

- Statistical Quality Control, Sampling Techniques

Publication

- The impact of a random vector with variables from normal and non-normal distributions on multivariate control charts
- A Regression Estimator in Path Sampling
- The Average Run Length Performance of Shewhart Control Chart when the Process Data are Sampled from Finite Population
- A ratio estimator in path sampling

Asst. Prof. Thidaporn Supapakorn

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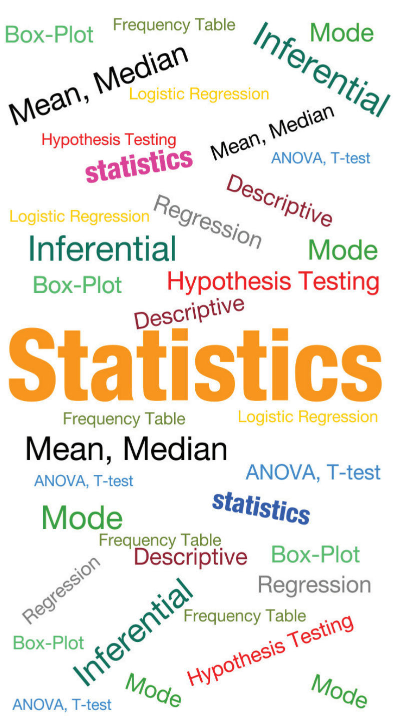
Research Focuses

- Statistical modeling
- Inferential statistics
- Statistics in applications

Publication

- Buathong, K.; Moonchai, S.; Saenton, S.; Supapakorn, T.; Rojsiraphisal,T. Predictive Model for Northern Thailand Rainfall Using Niño Indexes and Sea Surface Height Anomalies in the South China Sea. J. Mar. Sci. Eng. 2024, 12, 35.
- Boonmeekham, A. ., Sinsomboonthong, J. ., & Supapakorn, T. . (2023). Exact Moments of Generalized Akash Order Statistics. Thailand Statistician, 21(4), 735–758.
- Arisa Jiratampradab, Thidaporn Supapakorn* and Jiraphan Suntornchost (Dec 2022) Comparison of confidence intervals for variance components in an unbalanced one-way random effects model. Statistics in transition new series, 23(4), pp.149–160.



Asst. Prof. Wandee Wanishsakpong

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Keywords

Applied Statistics Modelling, Time series analysis

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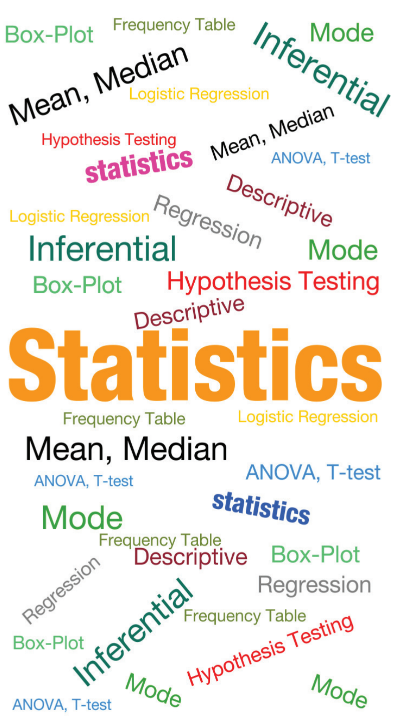

Research Focuses

- Applied Statistics and Data Science

Publication

- Wanishsakpong, W., Sodrung. K., and Thongteeraparp, T. (2023). A Comparison of Nonparametric Statistics and Bootstrap Methods for Testing Two Independent Populations with Unequal Variance. International Journal of Analysis and Applications 21-36
- Wanishsakpong, W., Thaithanan, J., Owusu, B.E., and Mahama, T. (2022). Comparing the efficiency levels of Multiple Comparison Methods for Normal Distributed Observations.International Journal of Mathematics and Computer Science, 17(1). 469–483.
- Wanishsakpong, W and Owusu, B.E. (2019). Optimal time series model for forecasting monthly temperature in the southwestern region of Thailand. Modeling Earth Systems and Environment.
  Doi: 10.1007/s40808-019-00698-5.

Assoc. Prof. Winai Bodhisuwan

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Keywords

Count data modelling, T-X family, Discretization of distribution

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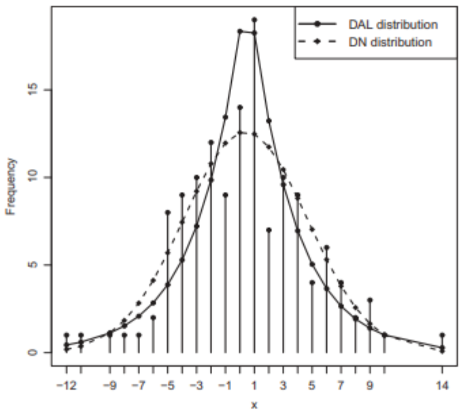
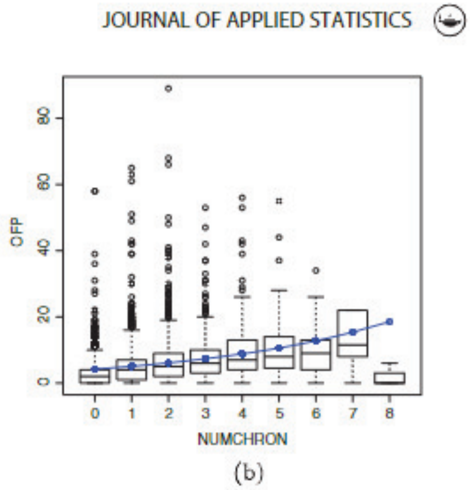
Research Focuses

- Development of new probability distributions. They are extended in areas of T-X family of distributions, discrete-analogue distributions. Those are applied in many fields. Also, some count data models are developed and applied to real life problems. Some problems of count data models are discussed, such as, zero inflation, zero truncation, zero-one inflation.





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Keywords

Nonparametric,Multivariate Analysis, Experimental design, Sampling

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Research Focuses

- Nonparametric Statistics
- Bootstrap Methods
- Robust Statistics

Publication

- The Generalized Distributions on the Unit Interval based on the T-Topp-Leone-Family of Distributions.
- The Zero-Truncated Poisson-Weighted Exponential with Applications.
- An Alternative Multiple Hypotheses Testing Procedure Using Fuzzy Approach.
- Parameter Estimation of the Negative Binomial New Weighted Lindley Distribution by the Method of Maximum Likelihood.