



ผศ. ดร. วิฑูร่า พึ่งพาพงศ์

Asst. Prof. Dr. Vitara Pungpapong

Department : Statistics

Email : vitara@cbs.chula.ac.th

Tel : 02 218 5661

Education

- 2012 DOCTOR OF PHILOSOPHY, STATISTICS, PURDUE UNIVERSITY, UNITED STATES
- 2007 MASTER OF ARTS, STATISTICS, HARVARD UNIVERSITY, UNITED STATES
- 2002 BACHELOR OF STATISTICS (FIRST CLASS HONORS), BUSINESS INFORMATION TECHNOLOGY, CHULALONGKORN UNIVERSITY, THAILAND

Publications

Peer-Reviewed Journal Articles

"Phylogenetic and recombinant analyses of complete coding sequences of DENV-1 from field-caught mosquitoes in Thailand", *Virus Research*, 286(2020) (198041) : 1-8, Sep.2020, (Pungpapong, V., Sittivicharpinyo, T., Wonnapijit, P., Surat, W.).

"Integrating biological knowledge into case-control analysis via iterated conditional modes/median algorithm", *Journal of Computational Biology*, 27(7) : 1171-1179, Jul.2020, (Pungpapong, V., Zhang, M., Zhang, D.).

"Blockchain and Internet of Things for Modern Business Process in Digital Economy—the State of the Art", *IEEE Transactions on Computational Social Systems*, 6(6) : 1420-1432, Dec.2019, (Viriyasitavat, W., Xu, L., Bi, Z.M., Pungpapong, V.).

"On Tuning Parameter Selection of Lasso Regression", *Thammasat Journal of Science and Technology*, 26(3) : 393-404, May.2018-Jun.2018, (Nuntasuwan, J., Pungpapong, V.).

"A Method Comparison of Gene Set Enrichment Analysis and Binary Logistic Regression for Investigating the Relationship between Gene Sets and a Binary Phenotype", *Thammasat Journal of Science and Technology*, 25(5) : 778-790, Sep.2017-Oct.2017, (Singruang, S., Pungpapong, V.).

"A Brief Review on High-dimensional Linear Regression", *Thammasat Journal of Science and Technology*, 23(2) : 212-223, Apr.2015-Jun.2015, (Pungpapong, Vitara.).

"Selecting Massive Variables Using An Iterated Conditional Modes/Medians Algorithm", *Electronic Journal of Statistics*, 9 : 1243-1266, Jan.2015, (Pungpapong, V., Zhang, M., Zhang, D.).

Publications

"Delineating Diseases by IMS-MS Profiling of Serum N-Linked Glycans.", Journal of Proteome Research, 11(2) : 576-585, Feb.2012, (Isailovic D, Plasencia MD, Gaye MM, Stokes ST, Kurulugama RT, Pungpapong V, Zhang M, Kyselova Z, Goldman R, Mechref Y, Novotny MV, Clemmer DE.).

"A Fast and Efficient Approach for Genomic Selection with High Density Markers.", G3: Genes, Genomes, Genetics, 2 : 1179-1184, Oct.2012, (Pungpapong, V., Muir, W.M., Li, X., Zhang, D., Zhang, M.).

"Quantitative Serum Glycomics of Esophageal Adenocarcinoma and Other Esophageal Disease Onsets", Journal of Proteome Research, 8(6) : 2656-2666, 2009, (Mechref, Y., Hussein, A., Bekesova, S., Pungpapong, V., Zhang, M., Dobrolecki, L.E., Hickey, R.J., Hammoud, Z.T. and Novotny, M.V.).

Peer-Reviewed Academic/Professional Meeting Proceedings

"An Algorithm for Bayesian Variable Selection in High-dimensional Generalized Linear Models" The 59th World Statistics Congress 2013, (Pungpapong, Vitara).

"Empirical Bayes Variable Selection for High-Dimensional Regression" The International Society for Computational Biology (ISCB) - Asia Annual Conference 2012, China Dec.2012, (Pungpapong, V.).

"Genomewide association analysis of GAW17 data using empirical Bayes variable selection." 17th Genetic Analysis Workshop (GAW17), 5, S5, BMC Proceedings 2011, (Pungpapong, V., Wang, L., Lin, Y., Zhang, D. and Zhang, M.).

"Genomewide case-control study in GAW17 using coalesced rare variants." 17th Genetic Analysis Workshop (GAW17), 5, S110, BMC Proceedings 2011, (Wang, L., Pungpapong, V., Lin, Y., Zhang, M. and Zhang, D.).

"Case-control genome-wide association study of rheumatoid arthritis from GAW16 using POCRE-LDA." 16th Genetic Analysis Workshop (GAW16), 3, S17, BMC Proceedings 2009, (Zhang, M., Lin, Y., Wang, L., Pungpapong, V., Fleet, J.C. and Zhang, D.).

"Simultaneous genome-wide association studies of anti-CCP in rheumatoid arthritis using penalized orthogonal-components regression." 16th Genetic Analysis Workshop (GAW16), 3, S20, BMC Proceedings 2009, (Lin, Y., Zhang, M., Wang, L., Pungpapong, V., Fleet, J.C. and Zhang, D.).

Peer-Reviewed Academic/Professional Meeting Presentations

"Variable Selection and Estimation in High-Dimensional Regression", ISBIS 2012, 2012, (Pungpapong, V., Zhang, M. and Zhang, D.).

Publications

Non Peer-Reviewed Academic/Professional Meeting Presentations

"An Algorithm for Bayesian Variable Selection in High-dimensional Generalized Linear Models", The 59th World Statistics Congress, Hong Kong 2013

"Empirical Bayes Variable Selection Using Iterative Conditional Modes/Medians", The 59th World Statistics Congress, Hong Kong 2013

"Empirical Bayes Variable Selection for High-Dimensional Regression", The International Society for Computational Biology (ISCB) – Asia Annual Conference, China 2012

Research Grants

"The Study of the Demand, the Readiness, and the Difficulty in Using Statistics Knowledge of Business Organization in Thailand", Dec. 2012–Jul. 2015, (Somboonsawatdee, A., Phaibulpanich, A., Pungpapong, V.).

Working Papers

"Survival Analysis using an ICM/M Algorithm.", Present, (Pungpapong, V.).

"The Parkinson's Disease Genome-Wide Association Study", Present, (Pungpapong, V., Zhang, M. and Zhang, D.).