

CURRICULUM VITAE



1. PERSONAL INFORMATION

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Prof. Dr. Chukiat Viwatwongkasem

GENDER: Male

DATE OF BIRTH: February 8, 1959

PLACE OF BIRTH: Bangkok, Thailand.

CURRENT POSITION: Professor in Biostatistics

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2. EDUCATION, CERTIFICATION, AND DIPLOMAS

YEAR	DEGREE	UNIVERSITY	COUNTRY
1981	B.Sc. (Mathematics)	Khon Kaen University	Thailand
1984	M.Sc. (Biostatistics)	Mahidol University	Thailand
2005	Ph.D. (Statistics)	National Institute of Development Administration	Thailand

3. WORK EXPERIENCE (present – past)

START YEAR	END YEAR	POSITION	COMPANY	COUNTRY
2022	Today	Prof.	Faculty of Public Health, Mahidol University	Thailand
1996	2022	Assoc. Prof.	Faculty of Public Health, Mahidol University	Thailand
1990	1996	Assist. Prof.	Faculty of Public Health, Mahidol University	Thailand
1985	1990	Lecturer	Faculty of Public Health, Mahidol University	Thailand

4. Research Area of Interests and Specialties

1. Biostatistical and Epidemiological Methods and Modeling
2. Statistical Inference and Bayesian Models
3. Mixture Models, Heterogeneity, Disease Mapping and Modeling
4. Meta-Analysis, Meta-Regression, and Multi-Center Studies
5. Capture-Recapture Methods and Models
6. Generalized Linear Models, Multilevel Mixed-Effects Models, and Survival Models
7. Statistical Computing

5. PUBLICATIONS

Corresponding Author

1. Viwatwongkasem C, Srisawad S, Soontornpipit P, Sillabutra J, Satitvipawee P, Kitidamrongsuk P, Chootrakool P. Minimum MSE Weighted Estimator to Make Inferences for a Common Risk Ratio across Sparse Meta-Analysis Data. *Open Journal of Statistics* 2022; 12: 49-69. doi.org/10.4236/ojs.2022.121004.
2. Meechok P, Viwatwongkasem C, Satitvipawee P, Sillabutra J, Srihera R. Estimation of HIV Incidence Rate in Thailand Using the Bayesian Hierarchical Approach. *Journal of Public Health* 2019; 49(2): 262-273.
3. Nitidejvisit A, Viwatwongkasem C, Sillabutra J, Soontornpipit P, Satitvipawee P. Bayesian approach using MCMC in disease mapping with standardized morbidity ratio of HIV/AIDS in Thailand. In: IEEE Xplore Digital Library. Proceedings of International Electrical Engineering Congress (iEECON); 2019 March 6-8, Cha-am, Hua Hin; Thailand; 2019. doi: 10.1109/IEECON45304.2019.8939039.
4. Surawit A, Viwatwongkasem C, Soontornpipit P, Rojanavipart P, Sae-Tang S. Empirical Bayes hierarchical modelling and mapping of HIV/AIDS. In: IEEE Xplore Digital Library. Proceedings of International Electrical Engineering Congress (iEECON); 2019 March 6-8, Cha-am, Thailand; 2019. doi: 10.1109/IEECON.2019. 8938851.
5. Viwatwongkasem C, Donjdee K, Poodphraw T. Profile Likelihood Tests for Common Risk Ratios in Meta-Analysis. *Open Journal of Statistics* 2018; 8: 915-30.
6. Viwatwongkasem C. EM algorithm for normal mixture likelihoods. In: IEEE Xplore Digital Library. Proceedings of International Electrical Engineering Congress (iEECON); 2018 March 7-9, Krabi, Thailand; 2018. doi: 10.1109/IEECON.2018.8712275.
7. Sae-tang S, Viwatwongkasem C, Soontornpipit P, Tritham C, Sreesai S. Spatial mapping of influenza infection by Bayesian approach. In: IEEE Xplore Digital Library. Proceedings of International Electrical Engineering Congress (iEECON); 2018 March 7-9, Krabi, Thailand; 2018. doi: 10.1109/IEECON.2018.8712246.
8. Surawit A, Viwatwongkasem C, Soontornpipit P, Kitidamrongsuk P, Rojanavipart P, Jareinpituk S. Empirical Bayes estimators under nonparametric priors for disease mapping of HIV/AIDS. In: IEEE Xplore Digital Library. Proceedings of International Electrical Engineering Congress (iEECON); 2018 March 7-9, Krabi, Thailand; 2018. doi: 10.1109/IEECON.2018.8712325.
9. Meechok P, Viwatwongkasem C, Satitvipawee P, Silabutra J, Srihera R. Bayesian modeling and mapping of HIV infection rate in Thailand. In: IEEE Xplore Digital Library. Proceedings of International Electrical Engineering Congress (iEECON); 2018 March 7-9, Krabi, Thailand; 2018. doi: 10.1109/IEECON.2018.8712289.
10. Nitidejvisit A, Sillabutra J, Satitvipawee P, Soontornpipit P, Viwatwongkasem C. Bayesian approach with different heterogeneity variance priors in disease mapping of HIV/AIDS in

- Thailand. In: IEEE Xplore Digital Library. Proceedings of International Electrical Engineering Congress (IEECON); 2018 March 7-9, Krabi, Thailand; 2018. doi: 10.1109/IEECON.2018.8712198.
11. Viwatwongkasem C. EM Algorithm for Truncated and Censored Poisson Likelihoods. *Procedia Computer Science* 2016; 86: 240-3.
 12. Sae-tang S, Srihera R, Satitvipawee P, Soontornpipit P, Viwatwongkasem C. Interval Estimation of Diagnostic Odds Ratio in Meta-Analysis by Means of Profile Likelihood. *Procedia Computer Science* 2016; 86: 212-5.
 13. Ujeh C, Satitvipawee P, Sillabutra J, Soontornpipit P, Kitidamrongsuk P, Viwatwongkasem C. Bootstrapping with R to Determine Variances of Mixture Model Estimates in Predicting Confidence Intervals for Population Sizes. *Procedia Computer Science* 2016; 86: 216-9.
 14. Donjdee K, Kitidamrongsuk P, Satitvipawee P, Soontornpipit P, Sillabutra, J, Viwatwongkasem C. Some Tests Based on the Profile Likelihood Estimator for Testing Homogeneity of Diagnostic Odds Ratios in Meta-Analysis. *Procedia Computer Science* 2016; 86: 220-3.
 15. Viwatwongkasem C, Gunngam W, Soontornpipit P. Spatial Mapping of HIV Infection by Means of Mixture Models. *Advanced Mechanic and Materials* 2015; 781: 599-603.
 16. Viwatwongkasem C, Satitvipawee P, Jareinpituk S, Soontornpipit P. Mixture Models for Estimating the Number of Drug Users in Thailand 2005-2007. *Applied Mathematics* 2013; 4: 1242-50.
 17. Viwatwongkasem C, Kudngaongarm R, Chaisupamongkollarp S, Thamsoonthorn C, Naovaratsophon A, Sripanarattanukul S, Nipattasat P, Levorakharn S, Jareinpituk S, Satitvipawee P, Pakdethanakul C. Not Chewing food of Complete dentures of the Thai Elderly. *J Med Assoc Thai* 2013; 96 (Suppl.5): S171-80.
 18. Viwatwongkasem C, Jitthavech J, Böhning D, Lorchirachoonkul V. Minimum MSE Weights of Adjusted Summary Estimator of Risk Difference in Multi-Center Studies. *Open Journal of Statistics* 2012; 2: 48-59.
 19. เตือนดารา ตราขึ้นต้อง, ชูเกียรติ วิวัฒนวงศ์เกษม*, เพียงจันทร์ โรจนวิภาต, รัชณี แซ่ลี. การวิเคราะห์ระยะปลอดเหตุการณ์เพื่อประมาณค่าอัตราการเกิดล้มเลือดในหัวใจห้องบนซ้ายในกลุ่มผู้ป่วยโรคลิ้นหัวใจไม่ตรัสตีบที่มีและไม่มีภาวะการเต้นของหัวใจผิดปกติจังหวะชนิด atrial fibrillation. *วารสารสาธารณสุขศาสตร์* 2012; ฉบับพิเศษ: 93-108.
 20. Soonklang K, Viwatwongkasem C, Satitvipawee P, Busarawong R, Srihera R. Adjusted Estimator of the Sum of Misclassification Errors of Youden's Index in Sparse Data of a Diagnostic Study. *Thailand Statistician* 2010; 8 (2): 157-66.
 21. Punyacharoensin N, Viwatwongkasem C. Trends in three decades of HIV/AIDS epidemic in Thailand by nonparametric backcalculation method. *AIDS* 2009; 23: 1143-52.
 22. Viwatwongkasem C, Kuhnert R, Satitvipawee P. A Comparison of Population Size Estimators under the Truncated Count Model with and without Allowance for Contaminations. *Biometrical Journal* 2008; 50: 1006-21.
 23. Böhning D, Viwatwongkasem C. Revisiting Proportion Estimates. *SMMR: Statistical Methods in Medical Research* 2005; 14: 147-69.

24. Viwatwongkasem C, Böhning W. A Comparison of Risk Difference Estimators in Multi-Center Studies under Baseline-Risk Heterogeneity. *Computational Statistics & Data Analysis* 2003; 41(3-4): 631-44.

Co-author

25. Muhammad Nurul Islam, Thosingha O, Danaidutsadeekul S, Viwatwongkasem C. Factors Explaining Quality of Life among People with Moderate to Severe Traumatic Brain Injury in Bangladesh: A Cross-Sectional Study. *PRIJNR* [Internet]. 2021Dec.9 [cited 2022Jan.13];26(1):146-60. Available from: <https://he02.tci-thaijo.org/index.php/PRIJNR/article/view/255283>
26. Saengdao Janda, Siriorn Sindhu, Nantiya Watthayu, Piyanun Limruangrong, Chukiat Viwatwongkasem & Watchara Boonsawat. Re-attendance at Emergency Department for Elderly Patients with Chronic Obstructive Pulmonary Disease Exacerbation. *Ageing International* 2021; 46(4), pp. 437-452.
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30. Ashraf Mansour, Nithat Sirichotiratana, Chukiat Viwatwongkasem, Mahmud Khan, Samrit Srithamrongsawat. District division administrative disaggregation data framework for monitoring leaving no one behind in the National Health Insurance Fund of Sudan: achieving sustainable development goals in 2030. *International Journal for Equity in Health* 2021; 20(5): <https://doi.org/10.1186/s12939-020-01338-6>.
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- Development of Impedance Tube System for Normal Incident Sound Absorption Measurement. *Procedia Computer Science* .
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Summary

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