

CURRICULUM VITAE

I. INDIVIDUAL INFORMATION:

Name: Assoc. Prof. Dr. Waraporn Boonchieng
Sex: Female
Nationality: Thailand
Age: 54
Date of Birth: September 18, 1968
Place of Birth: Chiang Mai, Thailand
Home address: 23/2 M.2, Changphuek, Mueng, Chiang Mai, Thailand 50300
Telephone number: 086-9166911
Current position: Vice-Dean at Faculty of Public Health, Chiang Mai University
Work address: Faculty of Public Health, Chiang Mai University
239 Huay Kaew, Suthep, Muang, Chiang Mai 50200

II. EDUCATION:

Year	Institute	Degree
1987 - 1991	Khon Kaen University Khon Kaen, Thailand	Bachelor of Nursing
1992 - 1994	ChiangMai University Chiang Mai, Thailand	Master of Education (Health Promotion)
2002 - 2006	Mahidol University Bangkok Thailand	Doctor of Public Health

III. EXPERIENCED CAREER:

Year	Organization	Position
1995-1997	Mc Comick Faculty of Nursing, Payap University	Lecturer
1999 - 2002	Department of Family Health, Faculty of Public Health, Mahidol University	Lecturer

2002 - 2018	Department of Public Health Nursing, Faculty of Nursing, Chiang Mai University	Assoc.Prof
2018 - present	Faculty of Public Health, Chiang Mai University	Assoc.Prof Vice Dean

IV. FIELDS OF STUDY:

1. Health promotion in community and health behavior science
2. Public health informatic

V. PRESENTATION AND PUBLICATION

รายชื่อการตีพิมพ์ ฐาน ISI, SCOPUS, TCI

ISI

1st author /Corresponding author

Boonchieng, W., Chaiwan, J., Shrestha, B., Shrestha, M., Dede, A. J. O., & Boonchieng, E. (2021). mHealth Technology Translation in a Limited Resources Community—Process, Challenges, and Lessons Learned From a Limited Resources Community of Chiang Mai Province, Thailand. *IEEE Journal of Translational Engineering in Health and Medicine*, 9, 1-8. <https://doi.org/10.1109/jtehm.2021.3055069>

Boonchieng, W., Settheekul, S., Fongkaew, W., Chouvatut, V., & Boonchieng, E. (2020). Development of a Web-based Sexual Risk Behavior Prevention Database with the Benefit of 4G LTE by Using Community Participation. *Journal of Internet Technology*. 2020, 21(2), 12. <https://jit.ndhu.edu.tw/article/view/2276>

Boonchieng, W., Boonchieng, E., Tuanrat, W., Khuntichot, C., & Duangchaemkarn, K. (2017, 2017). Integrative system of virtual electronic health record with online community-based health determinant data for home care service: MHealth development and usability test.

Chouvatut, V., Boonchieng, E., & Boonchieng, W. (2020). Clustering of Domestic Locations in Layers for the Purpose of Breakout Prevention of Diseases. *Journal of Internet Technology*. 2020, 21(6), 7. <https://jit.ndhu.edu.tw/article/view/2403>

Co-author

Nadda, W., Boonchieng, W., & Boonchieng, E. (2022). Influenza, dengue and common cold detection using LSTM with fully connected neural network and keywords selection. *BioData Mining*, 15(1). <https://doi.org/10.1186/s13040-022-00288-9>

Intawong, K., Boonchieng, W., Lertrakarnnon, P., Boonchieng, E., & Puritat, K. (2021). A-SA SOS: A Mobile- and IoT-based Pre-hospital Emergency Service for the Elderly and Village Health Volunteers. *International Journal of Advanced Computer Science and Applications*, 12. <https://doi.org/10.14569/IJACSA.2021.0120465>

Nadda, W., Boonchieng, W., & Boonchieng, E. (2019). Weighted Extreme Learning Machine for Dengue Detection with Class-imbalance Classification.

Boonchieng, E., Boonchieng, W., & Kanjanavanit, R. (2004). Edge-detection and segmentation methods for two-dimensional echocardiograms.

Scopus

1st author /Corresponding author

Duangchaemkarn, K., Boonchieng, W., Wiwatanadate, P., & Chouvatut, V. (2022). SARIMA Model Forecasting Performance of the COVID-19 Daily Statistics in Thailand during the Omicron Variant Epidemic. *Healthcare*, 10(7), 1310. <https://doi.org/10.3390/healthcare10071310>

Co-author

Pikulkaew, K., Boonchieng, W., & Boonchieng, E. (2023). Real-Time Pain Detection Using Deep Convolutional Neural Network for Facial Expression and Motion. In X.-S. Yang, S. Sherratt, N. Dey, & A. Joshi, *Proceedings of Seventh International Congress on Information and Communication Technology* Singapore.

Thongduang, K., Boonchieng, W., Chautrakarn, S., & Ong-Artborirak, P. (2022). The Influence of Family Caregiver Knowledge and Behavior on Elderly Diabetic Patients' Quality of Life in Northern Thailand. *International Journal of Environmental Research and Public Health*, 19(16), 10216. <https://doi.org/10.3390/ijerph191610216>

Ong-Artborirak, P., Boonchieng, W., Juntarawijit, Y., & Juntarawijit, C. (2022). Potential Effects on Mental Health Status Associated with Occupational Exposure to Pesticides among

- Thai Farmers. *International Journal of Environmental Research and Public Health*, 19(15), 9654. <https://doi.org/10.3390/ijerph19159654>
- Siewchaisakul, P., Sarakarn, P., Nanthanangkul, S., Longkul, J., Boonchieng, W., & Wungrath, J. (2022). Role of literacy, fear and hesitancy on acceptance of COVID-19 vaccine among village health volunteers in Thailand. *PLOS ONE*, 17(6), e0270023. <https://doi.org/10.1371/journal.pone.0270023>
- Intawong, K., Ong-Artborirak, P., & Boonchieng, W. (2021). Seamless Electronic Medical Record for Health Management System in Emergency Patients.
- Intawong, K., Prompantakorn, P., & Boonchieng, W. (2021). An Improved Automatic Zone Detection Algorithm based on Mechanic Flow for Complex Scene Event.
- Nochaiwong, S., Ruengorn, C., Awiphan, R., Kanjanarat, P., Ruanta, Y., Phosuya, C., Boonchieng, W., Nanta, S., Chongruksut, W., Thavorn, K., Wongpakaran, N., & Wongpakaran, T. (2021). COVID-19 Public Stigma Scale (COVID-PSS): development, validation, psychometric analysis and interpretation. *BMJ Open*, 11(11), e048241. <https://doi.org/10.1136/bmjopen-2020-048241>
- Pikulkaew, K., Boonchieng, W., Boonchieng, E., & Chouvatut, V. (2021). 2D Facial Expression and Movement of Motion for Pain Identification With Deep Learning Methods. *IEEE Access*, 9, 109903-109914. <https://doi.org/10.1109/access.2021.3101396>
- Pikulkaew, K., Boonchieng, E., Boonchieng, W., & Chouvatut, V. (2021). Pain Detection Using Deep Learning with Evaluation System. In X.-S. Yang, S. Sherratt, N. Dey, & A. Joshi, *Proceedings of Fifth International Congress on Information and Communication Technology* Singapore.
- Nadda, W., Boonchieng, W., & Boonchieng, E. (2020). Dengue Fever Detection using Long Short-term Memory Neural Network.
- Nochaiwong, S., Ruengorn, C., Awiphan, R., Ruanta, Y., Boonchieng, W., Nanta, S., Kowatcharakul, W., Pumpaisalchai, W., Kanjanarat, P., Mongkhon, P., Thavorn, K., Hutton, B., Wongpakaran, N., Wongpakaran, T., Outcomes, f. t. H., & Group, M. H. C. E. S. R. (2020). Mental health circumstances among health care workers and general public under the pandemic situation of COVID-19 (HOME-COVID-19). *Medicine*, 99(26), e20751. <https://doi.org/10.1097/md.00000000000020751>
- Phiwkhom, W., Chiawkhun, P., Boonchieng, E., Boonchieng, W., & Nakharutai, N. (2020, 24-27 June 2020). Comparison of Spatial Socioeconomic and Health Clustering Population in

Chiang Mai Province. 2020 17th International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI-CON),

Settheekul, S., Fongkaew, W., Viseskul, N., Boonchieng, W., & Voss, J. G. (2019). Factors influencing sexual risk behaviors among adolescents: A community-based participatory study. *Nursing & Health Sciences*, 21(2), 186-197. <https://doi.org/10.1111/nhs.12580>

Tamdee, D., Tamdee, P., Greiner, C., Boonchieng, W., Okamoto, N., & Isowa, T. (2019). Conditions of caring for the elderly and family caregiver stress in Chiang Mai, Thailand. *Journal of Health Research*, 33(2), 138-150. <https://doi.org/10.1108/jhr-07-2018-0053>

Settheekul, S., Fongkaew, W., Viseskul, N., Boonchieng, W., & Voss, J. G. (2018). Competitive Sexual Risk-taking Behaviors Among Adolescents in Northern Thailand. *Pacific Rim International Journal of Nursing Research*, 23(1), 61-73. <https://he02.tci-thaijo.org/index.php/PRIJNR/article/view/117208>

Boonchieng, E., Boonchieng, W., Senaratana, W., & Singkaew, J. (2014). Development of mHealth for public health information collection, with GIS, using private cloud: A case study of Saraphi district, Chiang Mai, Thailand.

PRESENTATIONS (International level)

1. **Boonchieng, W.**, Boonchieng, E., Aungwattana, A., Tamdee, D. and Pinyavong, W. (2019). Development of the drug abuse health information system in Thai community. Oral presentation at ICDHTA 2019: 13. International Conference on Digital Healthcare Technologies and Applications ICDHTA on May 02-03, 2019 in Rome, Italy.
2. **Boonchieng, W.**, Boonchieng, E., Tuanrat, W., Khuntichot, C., & Duangchaemkarn, K. (2017). Integrative system of virtual electronic health record with online community-based health determinant data for home care service: MHealth development and usability test. In 2017 IEEE Healthcare Innovations and Point of Care Technologies (HI-POCT) (pp. 5-8). IEEE.
3. **Boonchieng, W.** (2016). Development of Health Information in Community Based on Geographical Information System via Mobile Devices in Saraphi District, Chiang Mai,

Thailand. Poster presentation at the 48th Asia-Pacific Academic Consortium for Public Health Conference on September 16-19, 2016 in Teikyo University, Tokyo Japan.

VI.PUBLICATIONS

Intawong, K., Prompantakorn, P., & Boonchieng, W. W. (corresponding author) (2021). An improved automatic Zone detection algorithm based on mechanic flow for complex Scene Event. *2021 Joint International Conference on Digital Arts, Media and Technology with ECTI Northern Section Conference on Electrical, Electronics, Computer and Telecommunication Engineering*. doi:10.1109/ectidamtncon51128.2021.9425776

Intawong, K., Ong-artborirak, P., & Boonchieng, W. (corresponding author) (2021). Seamless Electronic Medical Record for Health Management System in Emergency Patients. *2021 Joint International Conference on Digital Arts, Media and Technology with ECTI Northern Section Conference on Electrical, Electronics, Computer and Telecommunication Engineering*. doi:10.1109/ectidamtncon51128.2021.9425689

Chouvatut, V., Boonchieng, E., & Boonchieng, W. (2020). Clustering of Domestic Locations in Layers for the Purpose of Breakout Prevention of Diseases. *Journal of Internet Technology*, 21, 1693-1699.

Intawong, K., Boonchieng, W., Lerttrakarnnon, P., Boonchieng, E., & Puritat, K. (2021). A-SA SOS: A Mobile- and IoT-based Pre-hospital Emergency Service for the Elderly and Village Health Volunteers. *International Journal of Advanced Computer Science and Applications*, 12(4). doi:10.14569/ijacsa.2021.0120465

Waraporn Boonchieng, Wilawan Tuanrat, Sivaporn Aungwattana , Decha Tamdee , and Duangduen Budda. Development of a Community-Based Geographic Health Information System via Mobile Phone in Saraphi District. *Journal of Computers* Vol. 30 No. 2, 2019, pp. 84-92 doi:10.3966/19911599201904300200784

W. Boonchieng, S. Settheekul, W. Fongkaew, E. Boonchieng, N. Viseskul, and C. Khuntichot Development of a Web-based Sexual Risk Behavior Prevention Database by Using Community Participation. *รอตีพิมพ์ journal of internet technology* ISSN:1607-9264

Wanchaloem Nadda, Waraporn Boonchieng & Ekkarat Boonchieng. (2019). Weighted

- Extreme Learning Machine for Dengue Detection with Class-imbalance Classification. 2019
 IEEE Healthcare Innovations and Point of Care Technologies (HI-POCT), 151-154.
 doi:10.1109/HI-POCT45284.2019.8962825 Indexed in: SCOPUS, IEEE Xplore
- Wanchaloem Nadda, Waraporn Boonchieng & Ekkarat Boonchieng. (2019). Information
 Retrieval with Natural Language Processing for Disease Detection using Wikipedia
 Database. IEICE Technical Report, vol. 38, no. 11, 65-66.
- Wanchaloem Nadda, Waraporn Boonchieng & Ekkarat Boonchieng. (2020). Dengue Fever
 Detection using Long Short-term Memory Neural Network. The 17th International
 Conference on Electrical Engineering/Electronics, Computer, Telecommunications
 and Information Technology (ECTI-CON 2020). Indexed in: SCOPUS, IEEE Xplore
- Wasana Phiwkhom, Waraporn Boonchieng, Phisanu Chiawkhun, Nawapon Nakharutai &
 Ekkarat Boonchieng (2020). Comparison of Spatial Socioeconomic and Health
 Clustering Population in Chiang Mai Province. The 17th International Conference
 on Electrical Engineering/Electronics, Computer, Telecommunications and
 Information Technology (ECTI-CON 2020). Indexed in: SCOPUS, IEEE Xplore
- Kornprom Pikulkaew, Ekkarat Boonchieng, Waraporn Boonchieng & Varin Chouvatut.
 (2019). Network-Simulated Generation of Human Faces with Expressions and
 Orientations for Deep Learning Classification, International Journal of Innovative
 Technology and Exploring Engineering (IJITEE), vol. 9, no. 2, 2178-2185.
 doi:10.35940/ijitee.B7491.129219 Indexed in: SCOPUS
- Kornprom Pikulkaew, Ekkarat Boonchieng, Waraporn Boonchieng and Varin Chouvatut. Pain
 Detection using Deep Learning with evaluation system. Presented at Proceeding
 of 2020th Interatonal Congress on Information and Communication Technology
 (ICIC). To be Publish in Springer Book Series: Advances in Intelligent System and
 Computing. Vol.1 or2, 2020, pp1-8 Accepted and in Press).
- Settheekul, S., Fongkaew, W., Viseskul, N., Boonchieng, W., & Voss, J. G. (2019). Competitive
 sexual risk-taking behaviors among adolescents in Northern Thailand. Pacific Rim
 International Journal of Nursing Research, 23(1), 61-73. Retrieved from
<https://www.scopus.com/inward/record>.
- Settheekul, S., Fongkaew, W., Viseskul, N., Boonchieng, W., & Voss, J. G. (2019). Factors
 influencing sexual risk behaviors among adolescents: A community-based
 participatory study. Nursing and Health Sciences, 21(2), 186-197.

- Tamdee, D., Tamdee, P., Greiner, C., Boonchiang, W., Okamoto, N., & Isowa, T. (2019). Conditions of caring for the elderly and family caregiver stress in Chiang Mai, Thailand. *Journal of Health Research*, 33(2), 138-150.
- Waraporn Boonchieng, Ekkarat Boonchieng, Wilawan Tuanrat, Chatchai Khuntichot & Khanita Duangchaemkarn. (2017). Integrative System of Virtual Electronic Health Record with Online Community-based Health Determinant Data for Home Care Service: mHealth Development and Usability Test. 2017 IEEE Healthcare Innovations and Point of Care Technologies (HI-POCT), 5-8. doi:10.1109/HIC.2017.8227571
Indexed in: SCOPUS, IEEE Xplore
- Wisitcharoen, K., Boonchieng, W., Suwanprapisa, T., & Buddhirakkul, P. (2016). The Effects of a Community Empowerment Program on Community Awareness and Capacity among Stakeholders in Diabetes Prevention in Buddhist Monks. *Asr Chiang Mai University Journal of Social Sciences and Humanities*, 3(2), 133-149.
- Wisitcharoen K. and Boonchieng W. (2017, July). Changing Society and Buddhist Monks' Health. In 13th International Conference on Thai Studies Globalized Thailand Connectivity, Conflict and Conundrums of Thai Studies, Chiang Mai, Thailand. (PROCEEDING).
- Burinkul, P., Klunklin, A., Boonchieng, W., Chotibang, J., & Liamputtong, P. (2016). Perception of HIV Risk-Taking Behaviors among Youths Incarcerated in a Juvenile Vocational Training Center: A Qualitative Study. *Pacific Rim International Journal of Nursing Research*, 20(2), 148-160.
- Boonchieng, W., Boonchieng, E., Aungwatana, S. & Tuanrat, W.. (2016). Saraphi Home Care: mHealth for Bed-Ridden Patient in Saraphi District, Chiang Mai Province. *International Journal of Evidence-Based Healthcare* 14, S4. indexed in: SCOPUS, ISI15.
- Ekkarat Boonchieng, Waraporn Boonchieng, Wilawan Senaratana & Jaras Singkaew. (2014). Development of mHealth for public health information collection, with GIS, using private cloud: A case study of Saraphi district, Chiang Mai, Thailand. 2014 International on Computer Science and Engineering Conference (ICSEC), 350-353. doi:10.1109/ICSEC.2014.6978221. Indexed in: SCOPUS, IEEE Xplore

VII.CLASSES:

- Principle of Social and Behavioral Sciences in Public Health
- Health Promotion
- Public Health Informatics (Apply)
- Research Methodology in Public Health
- Fieldwork Practice in Public Health
- Seminar in Public Health
- Advanced Research Methodology in Public Health

VII. Project consultant

- Department of Technical Promotion and Support Office Region, Ministry of Social Development
- Division of Elderly, Bureau of Health Promotion, Department of Health, Ministry of Public Health