

## CV

### Dr. Charatdao Kongmuang

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### Education Background

2006: PhD (Geography), University of Leeds, United Kingdom  
 1995: MSc. (Geography), Chiangmai University, Thailand  
 1991: BSc. (Geography), Chiangmai University, Thailand

### Awards and Honors

2022 Best Oral Presenter: Paper presented at Humboldt Kolleg Urban Partnership Melting Pot Conference, 17-20 January 2022, Virtual Platform.  
 2020 Best Paper Award: Paper presented at International Conference on Urban Sustainability, Environment, and Engineering (CUSME 2020) 20-21 January 2020, Prime Plaza Hotel Sanur, Bali- Indonesia.  
 1999 Visiting Scientist at University of Newcastle, England (Supported by British Council: March 1999)  
 1992-1993 Sasakawa Young Leaders Fellowship Fund  
 1990 Academic Outstanding Student Award (Chiangmai University)

### Research:

2016-2022 Advancing Co-Design of integrated strategies with Adaptation to climate change in Thailand (ADAP-T)  
 2015-2018 Allocating Thailand More Detailed Postcode for Health Equity Monitoring  
 2014 Thai Health and Health Equity Monitoring in Thai Society  
 2010 Movement of Offenders and Spatial Interaction  
 2009 Developing a Spatial Database for the Application of GIS in Crime Analysis and Prevention  
 2008 Spatial Analysis of Crime in Muang Phitsanulok  
 2004 Crime and Disorder in Leeds 2000/01 to 2003/04 (Co-Researcher)  
 2002 Impact of Using Groundwater from Shallow Wells Before and After Water Treatment on the Environment in Paddy Fields and Nearby Communities in Phitsanulok (Co-Researcher)

### Academic Services:

2022 Guidelines for the Establishment of Mae Mok Water Transmission and Maintenance.  
 2016-2017 A Survey and Design of the Electric Pumping Stations Project and Irrigation Canal System for River Wang Basin in Tak Province  
 2015-2017 Initial Environmental Examination of Huai Rai Reservoir & Hui NamLog Reservoir (Co-Researcher)

- 2013-2014 Master Plan for Water Resource Development and Water Management in Phrae Province (GIS Specialist)
- 2010-2011 Environmental Assessment and Environmental Impact Assessment Monitoring: Kio Kho Ma Dam, Lampang (Co-Researcher)

### Publications:

- Yodying, A., Mahavik, N., Tantanee, S., **Kongmuang, C.**, Keteku A. K., Chidburee, P., Seejata, K., Chatsudarat, S. (2022). A fuzzy AHP approach to assess flood hazard for area of Bang Rakam Model 60 project in Yom river basin, northern Thailand. *Applied Environmental Research*. (in press)
- Chatsudarat, S., Mahavik, N., Tantanee, S., **Kongmuang, C.**, Chidburee, P., Seejata, K., Yodying, A. (2021). Landslide susceptibility using Analytic Hierarchical Process in northern Thailand, International Symposium on Geoinformatics for Spatial Infrastructure Development in Earth and Allied Sciences 2021, 129-135.
- Yodying, A., Mahavik, N., Tantanee, S., Keteku, A. K., **Kongmuang, C.**, Chidburee, P., Seejata, K., & Chatsudarat, S. (2021). Flood hazard mapping for a repeated flooding area in northern Thailand. In Proceedings of the 42<sup>nd</sup> Asian Conference on Remote Sensing (ACRS 2021). [https://www.researchgate.net/publication/356892318\\_FLOOD\\_HAZARD\\_MAPPING\\_FOR\\_A\\_REPEATED\\_FLOODING\\_AREA\\_IN\\_NORTHERN\\_THAILAND](https://www.researchgate.net/publication/356892318_FLOOD_HAZARD_MAPPING_FOR_A_REPEATED_FLOODING_AREA_IN_NORTHERN_THAILAND)
- Chatsudarat, S., Mahavik, N., Tantanee, S., **Kongmuang, C.**, Chidburee, P., Seejata, K., Yodying, A. (2021) Landslide susceptibility using Analytic Hierarchical Process in northern Thailand. Proceeding: International Symposium on Geoinformatics for Spatial Infrastructure Development in Earth and Allied Sciences 2021. 2-4 September 2021, Naresuan University, Phitsanulok, Thailand & Online. [https://gisws.media.osaka-cu.ac.jp/gisideas20/viewpaper.php?id=836&fbclid=IwAR3-BtRY2MAhnGasbcHe9O\\_5qG8xGb\\_n9cl2aKiAzPL9e0UI3y3sgf11zT4](https://gisws.media.osaka-cu.ac.jp/gisideas20/viewpaper.php?id=836&fbclid=IwAR3-BtRY2MAhnGasbcHe9O_5qG8xGb_n9cl2aKiAzPL9e0UI3y3sgf11zT4)
- Kongmuang, C.**, Tantanee, S., Seejata, K. (2020), Urban Flood Hazard Map Using GIS of Muang Sukhothai District, Thailand, *Geographia Technica*, 15(1), 143-152.  
DOI: 10.21163/GT\_2020.151.13
- Yodying, A., Srijata, C., Chatsudarat, S., Chidburee, P., Mahavik, N., **Kongmuang, C.**, Tantanee, S. (2019). Flood Hazard Assessment using Fuzzy Analytic Hierarchy Process: A Case Study of Band Rakam Model in Thailand. Proceeding: The 40<sup>th</sup> Asian Conference on Remote Sensing (ACRS 2019) 14-18 October 2019, Daejeon Convention Center, Daejeon, Korea. <http://acrs2019.sigongji.com/wp/pdf/TuD2-4.pdf>
- Srijata, C., Yodying, A., Chatsudarat, S., Chidburee, P., Mahavik, N., **Kongmuang, C.**, Tantanee, S. (2019). Assessment of Flood Hazard using Geospatial Data and Frequency Ratio Model in Sukhothai Province, Thailand. Proceeding: The 40<sup>th</sup> Asian Conference on Remote Sensing (ACRS 2019) 14-18 October 2019, Daejeon Convention Center, Daejeon, Korea. <http://acrs2019.sigongji.com/wp/pdf/Mod1-4.pdf>
- Chatsudarat, S., Yodying, A., Srijata, C., Chidburee, P., Mahavik, N., **Kongmuang, C.**, Tantanee, S., (2019). The Study of Landslide Susceptibility using GIS base on Rainfall Deriving from TRMM over Northern Thailand. Proceeding: The 40<sup>th</sup> Asian Conference on Remote Sensing

(ACRS 2019) 14-18 October 2019, Daejeon Convention Center, Daejeon, Korea.  
<http://acrs2019.sigongji.com/wp/pdf/Mod2-7.pdf>

**Kongmuang, C.** (2017), Uses of Postcode: More than Delivering Letter (in Thai), *Journal of Social Sciences Naresuan University*, 13 (1), 95-112. DOI: 10.14456/jssnu.2017.6

Janhortone, P., Suriyakan, S., **Kongmuang, C.**, Lamlerthton, S., Thongwat, D., and Bunchu, N., (2016), Determination of Parasites from Blow Fly *Chrysomya megacephala* (Diptera: Calliphoridae) in Economically-Important Areas of Thailand, Proceeding: *The 1<sup>st</sup> Naresuan Conference on Natural Resources Geoinformation and Environment*, page 40-46, 3 November 2016, Naresuan University, Thailand.

Yookrung, S., and **Kongmuang, C.** (2016), Land Use Change and Urbanization Around Phitsanulok Ring Road, Proceeding: *The 2<sup>nd</sup> Lampang Research Conference*, page 515-525, 16 August 2016, Lampang Rajabhat University, Thailand.

**Kongmuang, C.** (2015), Allocating Thailand Postcode for Health Equity Monitoring, Paper presented at *Applied Geography IGU Conference 2015*, 11-13 May 2015, Royal Orchid Sheraton, Bangkok, Thailand

**Kongmuang, C.** (2013), Movement of Offenders and Spatial Interaction Model: Concept and Method, Paper presented at *The Regional Conference of the International Geographical Union (IGU 2013 Kyoto Regional Conference)*, 4-9 August 2013, Kyoto International Conference Center, Japan.

**Kongmuang, C.** (2013), Introducing Geo-Referencing and Crime Mapping to the Royal Thai Police: A Case of Muang Phitsanulok Police Station, Paper presented at *The Regional Conference of the International Geographical Union (IGU 2013 Kyoto Regional Conference)*, 4-9 August 2013, Kyoto International Conference Center, Japan.

Godfrey, A. and **Kongmuang, C.** (2009), Distribution, Demography and Basic Husbandry of the Asian Elephant in the Tourism Industry in Northern Thailand, *Gajah*, 30, 13-18.  
[https://www.researchgate.net/publication/351744473\\_Distribution\\_Demography\\_and\\_Basic\\_Husbandry\\_of\\_the\\_Asian\\_Elephant\\_in\\_the\\_Tourism\\_Industry\\_in\\_Northern\\_Thailand](https://www.researchgate.net/publication/351744473_Distribution_Demography_and_Basic_Husbandry_of_the_Asian_Elephant_in_the_Tourism_Industry_in_Northern_Thailand)

**Kongmuang, C.**, Clarke, G. P., Evans, A. J. (2007), Adding Geographical Detail into the British Crime Survey for Modelling Crime, Paper presented at *The 4th International Conference on Population Geographies*, 10-13 July 2007, The Chinese University of Hong Kong, Hong Kong.

**Kongmuang, C.** (2006). Modelling Crime: A Spatial Microsimulation Approach, PhD Thesis, School of Geography, University of Leeds, UK.  
[https://www.researchgate.net/publication/272684990\\_Modelling\\_Crime\\_A\\_Spatial\\_Microsimulation\\_Approach](https://www.researchgate.net/publication/272684990_Modelling_Crime_A_Spatial_Microsimulation_Approach)

**Kongmuang, C.**, Clarke, G. P., Evans, A. J., Jin, J. (2006), SimCrime: A Spatial Microsimulation Model for the Analysing of Crime in Leeds, *Working Paper 06/1*, School of Geography, University of Leeds, [online]  
[http://eprints.whiterose.ac.uk/4982/1/SimCrime\\_WorkingPaper\\_version1.1.pdf](http://eprints.whiterose.ac.uk/4982/1/SimCrime_WorkingPaper_version1.1.pdf)

**Kongmuang, C.**, Clarke, G. P., Evans, A. J., Ballas, D. (2005), A Spatial Microsimulation Approach to Modelling Crime, Paper presented at *The British Society of Criminology Conference 2005*, 12-14 July 2005, University of Leeds, UK.

**Kongmuang, C.**, Clarke, G. P., Evans, A. J., Ballas, D. (2005), Modelling Crime Victimization at Small-Area Level Using a Spatial Microsimulation Technique, Paper presented at *The RSAIBIS 35th Annual Conference*, 17-19 August 2005, Stratford upon Avon, UK.

Shepherd, P., See, L., **Kongmuang, C.**, Clarke, G. P. (2004), *An Analysis of Crime and Disorder in Leeds 2000/01 to 2003/04*, School of Geography, University of Leeds.  
DOI: 10.13140/2.1.3723.6006

**Kongmuang, C.**, Clarke, G. P., Evans, A. J. (2004), Modelling Social Determinants of Crime in Leeds, Paper presented at *The 2<sup>nd</sup> National Crime Mapping Conference*, 9-10 March 2004, London, UK.