

Curriculum Vitae

TZAI-HUNG WEN

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EDUCATION

Ph.D.	Bioenvironmental Systems Engineering, National Taiwan University	2000-2006
M.S.	Agricultural Engineering, National Taiwan University	1996-1998
B.S.	Agricultural Engineering, National Taiwan University	1992-1996

MAJOR FIELDS

Geographic information science (GISc); Spatial-temporal analysis;

Geographies of diseases; Spatial epidemiology; Urban analytics and environmental sensing

APPOINTMENTS

Professor	2017- present	NTU Department of Geography,
Associate Professor	2013-2017	NTU Department of Geography
Assistant Professor	2009-2013	NTU Department of Geography
Project Assistant Professor	2008-2009	NTU Institute of Epidemiology
Postdoctoral Fellow	2007-2008	Research Center for Humanities and Social Sciences (RCHSS), Academia Sinica

ACADEMIC DIRECTORSHIP

2021 - present	Director, NTU Spatial Information Research Center
2018 - present	Chairperson, NTU Department of Geography
2014 - 2017	Division Director, NTU Global Change Research Center
2010 - 2018	Division Director, NTU Center for Population and Gender Studies

AFFILIATED FACULTY

2021 - present	Center for Teacher Education, NTU Office of Academic Affairs
2013 - present	Master Program in Statistics, National Taiwan University (NTU)
2009 - present	MOHW-NTU Infectious Disease Research and Education Center
2008 - 2009	Department of History, National Chengchi University (NCCU)

AWARDS AND HONORS

2019:	NTU Reward for Excellent Senior Teachers
2018:	MOST Press Conference
2018:	NTU Outstanding Teaching Award
2017:	MOST Futuristic Breakthrough Technology Award
2016-2021:	NTU Faculty Merit Pay
2015:	MOST Ta-You Wu Memorial Award
2014-2016:	MOST Excellent Young Investigator Grant
2016, 2013, 2011:	NTU Excellence in Teaching Award

JOURNAL EDITORIAL BOARD

2020 - present	Editor-in-chief, <i>Journal of Population Studies</i>
2018 - present	Academic Editor, <i>PLOS ONE</i>
2018 - present	Editorial Board (Biostatistics and Methods), <i>BMC Public Health</i>
2015 - 2018	Editorial Board, <i>Journal of Geographical Science</i>
2013 - 2017	Editor-in-chief, <i>Bulletin of the Geographical Society of China</i>
2011 - 2019	Editorial Board/Deputy Editor, <i>Journal of Population Studies</i>

ACADEMIC OUTREACH

2020 - present	Council Member, Chinese Federation of Surveying & Mapping
2019 - present	Chairman, Chinese Cartographic Association
2019 - present	National Committee (Chinese Taipei) of International Geographical Union
2018 - present	Council Member, Taiwan Geographic Information Society (TGIS)
2018 - 2020	Open Government Data Consultation Committee, Taiwan EPA
2018 - 2019	MOST Grant Review Committee on Regional Science & Geography
2018 - 2020	MOST Grant Review Committee on Geospatial Information Technology
2017 - 2019	Secretary-General, Chinese Cartographic Association
2017 - present	Executive Council Member/Supervisor, Population Association of Taiwan
2017 - present	Council Member (as Chairman since 2019/08), Geographical Society
2016 - present	National Mosquito-Borne Diseases Control Research Center
2013 - present	College Entrance Examination Center (CEEC), Taiwan
2012 - present	Editorial Board for High-School Geography Textbooks

■ PUBLICATION LIST

(A). Peer-reviewed Journal Articles

* Corresponding author

1. Kuo FY, **Wen TH** * (2021), Regionalization for Infection Control: An Algorithm for Delineating Containment Zones Considering the Regularity of Human Mobility, *Applied Geography* 126:102375
2. Chan CH, Chu TH, Wu JH P, **Wen TH** * (2021). Spatially Characterizing Major Airline Alliances: A Network Analysis", *ISPRS International Journal of Geo-Information* 10(1):37
3. Liao HY, **Wen TH** * (2020), Extracting Urban Water Bodies from High-resolution Radar Images: Measuring the Urban Surface Morphology to Control for Radar's Double-bounce Effect, *International Journal of Applied Earth Observations and Geoinformation* 85:102003.
4. Hossain MP, Junus A, Zhu X, Jia P, **Wen TH**, Pfeiffer D, Yuan HY (2020), The Effects of Border Control and Quarantine Measures on the Spread of COVID-19, *Epidemics* 32: 100397.
5. Jiang JA, Wang JC, Hsieh CL, Tseng KS, Ye ZW, Su LK, Sun CH, **Wen TH**, Juang JY (2020), An Alternative Body Temperature Measurement Solution: Combination of a Highly Accurate Monitoring System and a Visualized Public Health Cloud Platform, *IEEE Internet of Things Journal* (Early Access) doi:10.1109/JIOT.2020.3034024
6. Chiang YL, Wang JC, Sun CH, **Wen TH**, Juang JY, Jiang JA (2020), Mobile Measurement of Particulate Matter Concentrations on Urban Streets: System Development and Field Verification, *IEEE Access* 8:197617–197629
7. Yuan HY, Liang J, Lin PS, Sucipto K, Tsegaye MM, **Wen TH**, Pfeiffer S, Pfeiffer D (2020), The Effects of Seasonal Climate Variability on Dengue Annual Incidence in Hong Kong: A Modelling Study, *Scientific Reports* 10: 4297.
8. Cheng YC, Lee FJ, Hsu YT, Slud EV, Hsiung CA, Chen CH, Liao CL, **Wen TH**, Chang CW, Chang JH, Wu HY, Chang TP, Lin PS, Ho HP, Hung WF, Chou JD, Tsou HH (2020), Real-Time Dengue Forecast for Outbreak Alerts in Southern Taiwan, *PLOS Neglected Tropical Diseases* 14(7): e0008434.
9. Tsoua HH, Cheng YC, Yuan HY, Ya-Ting Hsu, Wu HY, Lee FJ, Hsiung CA, Chen WJ, Sytwu HK, Wu SI, Shih SM, **Wen TH**, Kuo SC (2020), The Effect of Preventing Subclinical Transmission on the Containment of COVID-19: Mathematical Modeling and Experience in Taiwan, *Contemporary Clinical Trials* 96: 106101.
10. Ng TC, **Wen TH** * (2019), Spatially Adjusted Time-varying Reproductive Numbers: Understanding the Geographical Expansion of Urban Dengue Outbreaks, *Scientific Reports* 9: 19172.

11. Ng IC, **Wen TH ***, Yang ST, Fang CT *, Hsueh PR (2019), Detecting Tuberculosis Clusters in Urban Neighborhoods, Taipei, Taiwan: Linking Geographic and Genotyping Evidence, *Applied Geography* 104: 56-64.
12. Yuan HY, **Wen TH**, Kung YH, Tsou HH, Chen CH, Chen LW, Lin PS (2019), Prediction of Annual Dengue Incidence by Hydro-Climatic Extremes for Southern Taiwan, *International Journal of Biometeorology* 63(2): 259-268.
13. Chen TH, Chen YJ, **Wen TH *** (2018), Revisiting the Role of Rainfall Variability and its Interactive Effects with the Built Environment in Urban Dengue Outbreaks, *Applied Geography* 101(12):14-22.
14. **Wen TH ***, Hsu CS, Hu MC (2018), Evaluating Neighborhood Structures for Modeling Intercity Diffusion of Large-scale Dengue Epidemics, *International Journal of Health Geographics* 17:9.
15. Kuo FY, **Wen TH ***, Sabel C (2018), Characterizing Diffusion Dynamics of Disease Clustering: A Modified Space-Time DBSCAN (MST-DBSCAN) Algorithm, *Annals of the American Association of Geographers* 108(4):1168-1186.
16. Ko HY, Li YT, Chao DY, Chang YC, Li ZR, Wang M, Kao CL, **Wen TH**, Shu PY, Chang GJ, King CC (2018), Inter- and Intra-Host Sequence Diversity Reveal the Emergence of Viral Variants during an Overwintering Epidemic Caused by Dengue Virus Serotype 2 in Southern Taiwan, *PLOS Neglected Tropical Diseases* 12(10): e0006827.
17. Chin WC, **Wen TH ***, Sabel C, Wang IH (2017), A Geo-computational Algorithm for Exploring the Structure of Diffusion Progression in Time and Space, *Scientific Reports* 7:12565.
18. **Wen TH ***, Chin WC, Lai PC (2017), Understanding the Topological Characteristics and Flow Complexity of Urban Traffic Congestion, *PHYSICA A: Statistical Mechanics and Its Applications* 473:166-177.
19. Lan YC, **Wen TH**, Chang CC, Liu HF, Lee PF, Huang CY, Chomel BB, Chen YM (2017), Indigenous Wildlife Rabies in Taiwan: Ferret Badgers, a Long-term Terrestrial Reservoir, *BioMed Research International*, Vol. 2017, Article ID 5491640.
<https://doi.org/10.1155/2017/5491640>.
20. Chen TH, **Wen TH ***, Fang CT, Chan PC (2017), Assessing Infection Risk of Tuberculosis (TB) Contacts in Different Case-contact Contexts, *Taiwan Journal of Public Health* 36(2): 107-121
21. **Wen TH ***, Tsai CT #, Chin WC (2016), Evaluating the Role of Disease Importation in the Spatiotemporal Transmission of Indigenous Dengue Outbreak, *Applied Geography* 76: 137–146.

22. Lin CH, **Wen TH ***, Teng HJ, Chang NT (2016), The Spatio-temporal Characteristics of Potential Dengue Risk Assessed by *Aedes aegypti* and *Aedes albopictus* in High-epidemic Areas, *Stochastic Environmental Research and Risk Assessment* 30(8): 2057–2066
23. Tsai KH, Chang SF, Yen TY, Shih WL, Chen WJ, Wang HC, Yu XJ, **Wen TH**, Wu WJ, Shu PY. (2015), Prevalence of antibodies against *Ehrlichia spp.* and *Orientia tsutsugamushi* in small mammals around harbors in Taiwan. *Parasites & Vectors* 9:45.
24. Lin MH, Kuo RN, Chin WCB, **Wen TH *** (2016), Profiling the patient flow for seeking healthcare in Taiwan: using gravity modeling to investigate the influences of travel distance and healthcare resources, *Taiwan Journal of Public Health* 35(2):136-151.
(in Chinese) (selected as a **Recommended Reading Article**)
25. **Wen TH ***, Lin MH, Teng HJ, Chang NT (2015), Incorporating the Human-*Aedes* Mosquito Interactions into Measuring the Spatial Risk of Urban Dengue Fever, *Applied Geography* 62:256-266
26. **Wen TH ***, Chin CB (2015), Incorporation of Spatial Interactions in Location Networks to Identify Critical Geo-Referenced Routes for Assessing Disease Control Measures on a Large-Scale Campus, *International Journal of Environmental Research and Public Health* 12, 4170-4184
27. Chin CB, **Wen TH *** (2015), Geographically Modified PageRank Algorithms: Identifying the Spatial Concentration of Human Movement in a Geospatial Network, *PLOS ONE* 10(10): e0139509.
28. Chiu CH, **Wen TH**, Chien LC, Yu HL (2014), A Probabilistic Spatial Dengue Fever Risk Assessment by a Threshold based-Quantile Regression Method, *PLOS ONE* 9(10): e106334.
29. Huang CY, **Wen TH** (2014), A Novel Private Attitude and Public Opinion Dynamics Model for Simulating Pluralistic Ignorance and Minority Influence, *Journal of Artificial Societies and Social Simulation* 17 (3):8
30. Huang CY, **Wen TH** (2014), Optimal Installation Locations for Automated External Defibrillators in Taipei 7-Eleven Stores: Using GIS and a Genetic Algorithm with a New Stirring Operator, *Computational and Mathematical Methods in Medicine* 2014:241435
31. Naim MR, Sahani M, Hod R, Hidayatulfathi O, Idrus S, Norzawati Y, Hazrin H, Tahir A, **Wen TH**, King CC, Zainudin MA (2014), Spatial-temporal Analysis for Identification of Vulnerability to Dengue in Seremban District, Malaysia, *International Journal of Geoinformatics* 10(1): 31-38.
32. **Wen TH ***, Jiang JA, Sun CH, Juang JY, Lin TS (2013), Monitoring Street-level Spatial-Temporal Variations of Carbon Monoxide (CO) in Urban Settings Using a Wireless Sensor Network (WSN) Framework, *International Journal of Environmental Research and Public Health* 10(12), 6380-639

33. Huang CY, **Wen TH ***, Tsai YS (2013), FLUed: A Novel Four-Layer Model for Simulating Epidemic Dynamics and Assessing Intervention Policies, *Journal of Applied Mathematics*, 2013: 325816.
34. Hu MC, Huang AL, **Wen TH *** (2013), GIS-based Biomass Resource Utilization for Rice Straw Co-firing in the Taiwanese Power Market, *Energy* 55:354-360
35. Wu HH, Wang CY, Teng HJ, Lin C, Lu LC, Jian SW, Chang NT, **Wen TH**, Wu JW, Liu DP, Lin LJ, Norris DE, Wu HS (2013), A Dengue Vector Surveillance by Human Population-stratified Ovitrap Survey for *Aedes (Diptera: Culicidae)* Adult and Egg Collections in High Dengue-risk Areas of Taiwan, *Journal of Medical Entomology* 50(2):261-269
36. Huang CY, Lee CL, **Wen TH ***, Sun CT (2013), A Computer Virus Spreading Model Based on Resource Limitations and Interactions Costs, *Journal of Systems and Software* 86(3): 801-808.
37. Ng IC, **Wen TH ***, Wang JY, Fang CT * (2012) Spatial Dependency of Tuberculosis Incidence in Taiwan, *PLOS ONE* 7(11): e50740.
38. Tsai YS, Ko PC, Huang CY, **Wen TH *** (2012), Optimizing Locations for the Installation of Automated External Defibrillators (AEDs) in Urban Public Streets Through the Use of Spatial and Temporal Weighting Schemes, *Applied Geography* 35(1-2):394-404
39. **Wen TH ***, Lin MH, Fang CT (2012) Population Movement and Vector-borne Disease Transmission: Differentiating Spatial-temporal Diffusion Patterns of Commuting and Non-Commuting Dengue Cases. *Annals of the Association of American Geographers* 102(5): 1026-1037.
40. Lin CM, **Wen TH *** (2012), Temporal Changes in Geographical Disparities in Alcohol-attributed Disease Mortality before and after Implementation of the Alcohol Tax Policy in Taiwan, *BMC Public Health* 12:889.
41. Su MD, Lin MC, Lin CH, Wang SF, **Wen TH**, Hsieh HI (2012), A Spatial Aggregation Index for Effective Fallow Decision in Paddy Irrigation Demand Planning. *Paddy and Water Environment*, 10(1):31-39
42. Yang AC, **Wen TH ***, Shih CC, Fang CT * (2011) Differentiating Geographic Patterns of Human Immunodeficiency Virus Infection with Different Risk Factors in Northern Taiwan. *Applied Geography* 31(2): 519-524
43. Lin CH, **Wen TH *** (2011). Using Geographically Weighted Regression (GWR) to Explore Spatial Varying Relationships of Immature Mosquito and Human Densities with the Incidence of Dengue. *International Journal of Environmental Research and Public Health* 8(7): 2798-2815
44. Tsai YS, Huang CY, **Wen TH ***, Sun CT, Yen MY (2011). Integrating Epidemic Dynamics with Daily Commuting Networks: Building a Multilayer Framework to Assess Influenza A

- (H1N1) Intervention Policies. *Simulation: Transactions of The Society for Modeling and Simulation International* 87(5): 385-405
45. Hu MC, Lin CH, Chou CA, Hsu SY, **Wen TH** * (2011). Analysis of Biomass Co-firing Systems in Taiwan Power Markets Using Linear Complementarily Models. *Energy Policy* 39(8): 4594-4600
 46. Lin MH, Yang AC, **Wen TH** * (2011). Using Regional Differences and Demographic Characteristics to Evaluate the Principles of Estimation of the Residence of the Population in National Health Insurance Research Databases (NHIRD). *Taiwan Journal of Public Health* 30(4):347-360. (In Chinese) (selected as a **Recommended Reading Article**)
 47. Chang YC, **Wen TH** *, Lai MS (2011) Comparisons of Different Geographical Accessibility Methods in Evaluating Township-level Physician-to-Population Ratios in Taiwan. *Taiwan Journal of Public Health* 30(6) 558-572 (in Chinese)
 48. **Wen TH** (2011). Comments on "The Correlation between Availability of High-rise Buildings and Suicide by Jumping in Taiwan", *Taiwan Journal of Public Health* 30(6): 547. (in Chinese)
 49. **Wen TH**, Chen DR, Tsai MJ (2010) Identifying Geographical Variations in Poverty-Obesity Relationships: Empirical Evidence from Taiwan. *Geospatial Health* 4(2): 257-265
 50. **Wen TH**, Lin NH, Chao DY, Hwang KP, Kan CC, Lin KC, Wu JT, Huang SY, Fan IC, King CC (2010) Spatial-Temporal Patterns of Dengue in Areas at Risk of Dengue Hemorrhagic Fever in Kaohsiung, Taiwan. *International Journal of Infectious Diseases* 14:e334–e343
 51. **Wen TH** *, Liu TC, Lin MH (2010), Crime Mapping and Hotspot Analysis: A Case Study of Residential Burglaries in Taipei City, 1998-2007. *Journal of Geographical Research* 52:43-63. (in Chinese)
 52. Huang CY, Tsai YS, **Wen TH** * (2010) A Network-Based Simulation Architecture for Studying Epidemic Dynamics. *Simulation: Transactions of The Society for Modeling and Simulation International* 86: 351-368
 53. Chen DR, **Wen TH** (2010), Elucidating the Changing Socio-Spatial Dynamics of Neighborhood Effects on Adult Obesity Risk in Taiwan from 2001 to 2005, *Health & Place* 16(6): 1248-1258.
 54. Chen DR, **Wen TH** (2010) Socio-spatial Patterns of Neighborhood Effects on Adult Obesity in Taiwan: A Multilevel Model. *Social Science & Medicine* 70: 823–833.
 55. Shang CS, Fang CT, Liu CM, **Wen TH**, Tsai KH, King CC (2010) The Role of Imported Cases and Favorable Meteorological Conditions in the Onset of Dengue Epidemics, *PLoS Neglected Tropical Diseases* 4(8): e775.
 56. Huang CY, Tsai YS, **Wen TH** (2010), Simulations for Epidemiology and Public Health Education. *Journal of Simulation* 4:68-80

57. Chang YC, **Wen TH** *, Lai MS (2009) Using Geographic Information Systems (GIS) to Identify the Association between Geographic Accessibility and Hospital-seeking Behavior by Hepatocellular Carcinoma Patients in Taiwan , *Taiwan Journal of Public Health* 28(6): 517-529. (in Chinese) **(selected as a Recommended Reading Article)**
58. Kan CC, Lee PF, and **Wen TH**, Chao DY, Wu MH, Lin NH, Huang YJ, Shang CS, Fan IC, Shu PY, Huang JH, King CC, Pai L. (2008) Two Clustering Diffusion Patterns Identified from the 2001-2003 Dengue Epidemic. *American Journal of Tropical Medicine & Hygiene* 79(3): 344–352.
59. Chen J, Chen DR, and **Wen TH** (2008) Delayed Treatment of Diagnosed Pulmonary Tuberculosis in Taiwan. *BMC Public Health* 8:236
60. **Wen TH**, Lin CH, Chen CT, and Su MD (2007) Analysis of Spatial Scenarios Aiding Decision-Making for Regional Irrigation Water-Demand Planning. *Journal of Irrigation and Drainage Engineering* 133(5): 455-467
61. **Wen TH**, Lin NH, Lin CH, King CC, Su MD (2006) Spatial Mapping of Temporal Risk Characteristics to Improve Environmental Health Risk Identification: a Case Study of a Dengue Epidemic in Taiwan. *Science of the Total Environment* 367: 631–640.
62. **Wen TH**, Su MD, Yeh YL (2004), A GIS-based Framework of Regional Irrigation Water Demand Assessment. *Paddy and Water Environment* 2:33-39.
63. **Wen TH**, Su YH, Su MD (2004), A Spatial Data Structure of Irrigation Canal Systems, *Journal of Chinese Agricultural Engineering* 50(3):19-31. (in Chinese)
64. **Wen TH**, King CC, Hsiao CK, et al (2002), Application of Geographic Information Systems (GIS) to Epidemiological surveillance, Data analysis and Effective Control in Infectious Diseases, *Taiwan Journal of Public Health* 21:449-456. (in Chinese)
65. **Wen TH**, Su MD, Lin CH, et al (1998), Application of Geographic Information on the Estimation of Regional Irrigation Water Demand, *Journal of Taiwan Water Conservancy* 46(3):12-23. (in Chinese)

(B). Book Chapters and Encyclopedia Entries

1. **Wen TH** *, Liao, HY, Yang KL, Chen TH (2021), Characterizing urban built environments prone to after-rain standing water: A multilevel image analysis, In Xiaojun Yang (Eds.), *Urban Remote Sensing: Monitoring, Synthesis and Modeling in the Urban Environment* (2nd Edition), Wiley-Blackwell.
2. **Wen TH** (2019), Spatial Assimilation, In Anthony M. Orum (Eds.), *Wiley-Blackwell Encyclopedia of Urban and Regional Studies*, Wiley-Blackwell.
3. **Wen TH**, Hsu CS, Sun CH, Jiang JA, Juang JY (2018), A Location-Based Client-Server Framework for Assessing Personal Exposure to the Transmission Risks of Contagious

- Diseases, In Shaw SL and Sui D (Eds.). *Human Dynamics Research in Smart and Connected Communities*, Springer Series: GeoJournal Library, Springer
4. **Wen TH**, Chin WC, Lai PC (2017), Link Structure Analysis of Urban Street Networks for Delineating Traffic Impact Areas. Essaaidi and Nemiche (Eds.), *Advances in Complex Societal, Environmental and Engineered Systems*, Springer Series: Nonlinear Systems and Complexity, Springer
 5. **Wen TH**, Lin MH, Li MH (2016), Potential Effects of Climate Changes on Dengue Transmission : A Review of Empirical Evidence from Taiwan, Rais Akhtar (eds), *Climate Change and Human Health Scenario in South and Southeast Asia*, Springer.
 6. **Wen TH**, Tsai YS (2015), Analyzing the Patterns of Space-Time Distances for Tracking the Diffusion of an Epidemic, In *Space-Time Integration in Geography and GIScience*, edited by Kwan MP, Richardson D, Wang D and Zhou C. Dordrecht: Springer.
 7. Su MD, Lin MC, **Wen TH** (2011), Spatial Mapping and Environmental Risk Identification, *Encyclopedia of Environmental Health*, Five-Volume Set, Elsevier
 8. **Wen TH**, Chang YC, Lai MS (2010), Measurement of Geographic Accessibility for Cancer Hospitals in Taiwan, *Spatially Integrated Humanities and Social Sciences*, Beijing: Science Press. (ISBN: 978-7-03-026632-3)
 9. **Wen TH**, Tsai YS, Huang CY, Yen MY (2009), Multi-Layer Epidemic Dynamics Simulation (MEDSIM) for Spatial Transmission of Acute Respiratory Diseases, *Intelligence and Security Informatics: Biosurveillance and Biosecurity*, New York: West Publishing Co. (ISBN: 978-1-60317-007-9)
 10. King CC, Chao DY, **Wen TH**, Kao CL, Wu JT, Huang YJ, Tipayamongkhogul M, Shang CS. (2008) Epidemiologic Characteristics of Dengue in Taiwan and Implications for Global Control, *Dengue Disease*, Research Signpost, India: Kerala.
 11. **Wen TH**, Lin NH, Lin K, Fan IC, Su MD, King CC (2007), A Spatial-Temporal Approach to Differentiate Epidemic Risk Patterns, In Lai, P.C. and Mak, S.H. (eds). *GIS for Health and the Environment: Development in the Asia Pacific Regions*. Berlin: Springer-Verlag.

(C). Textbooks and Atlas Books

1. **Wen TH** (2021), *Spatial Analysis: Methods and Applications (2nd Edition)*, Taipei: Yeh Yeh Book Gallery, pp.344. (ISBN: 978-957-90-9696-6)
2. **Wen TH** (2015), *Spatial Analysis: Methods and Applications*, Taipei: Yeh Yeh Book Gallery, pp.285. (ISBN: 978-986-56-6821-1)
3. **Wen TH**, Huang CC, Yeh KH (2012), *Census Atlas of Taiwan (1956-2010)*, Taipei: NTU Center for Population and Gender Studies, pp.305. (ISBN: 978-986-03-5765-3)