

CURRICULUM VITAE

莊景榮 博後學者

中央研究院 統計科學研究所

Jing-Rong Jhuang, Postdoctoral Scholar
Institute of Statistical Science, Academia Sinica
Academia Rd. sec, 2, Taipei 11529, Taiwan, R.O.C.

Office: Room 110

Telephone: +886 2 27835611 ext 136

Facsimile: +886 2 27886833

Email: jrjhuang@stat.sinica.edu.tw / yoyo830303@gmail.com

[Personal Website](#)

[ORCID](#)

Education

2017 – 2023 Ph.D. Institute of Epidemiology and Preventive Medicine,
National Taiwan University

2012 – 2016 B.S. Department of Statistics, National Cheng Kung University

Research Interest

Integrative analysis of multimodal data using biobank-centric databases with advanced artificial intelligence to enhance precision health.

Programming Skills

R, SAS, SQL, PYTHON, PLINK

Language Skills

Mandarin—Native, American English—Fluent

Scientometrics

[Google Scholar](#) Citations 127, h-index 5, i10-index 2

[ResearchGate](#) Research Interest Score 92.0, Citations 119, h-index 5

Experience

2023 – present Postdoctoral Scholar in Smart Healthcare Project, Institute of Statistical Science, Academia Sinica (中研院統計所智慧醫療計畫博後學者)

2017 – 2023 Research Assistant, Taiwan Cancer Registry, National Taiwan University (台灣大學台灣癌症登記中心研究助理)

Honors

- Taiwan Epidemiology Association Excellent Doctoral Thesis Award (台灣流行病學學會研究生論文獎)
- National Taiwan University Applied Statistics Doctoral Thesis Award (台灣大學統計應用論文獎)
- National Taiwan University Outstanding Teaching Assistants (台灣大學卓越教學助理)

Members

- Taiwan Public Health Association (台灣公共衛生學會)
- Taiwan Epidemiology Association (台灣流行病學學會)
- The Phi Tau Phi Scholastic Honor Society of The Republic of China (中華民國斐陶斐榮譽學會)

Review service – Journal review

- BMC Public Health / BMC Cancer / BMC Medical Research Methodology
- Journal of Health, Population and Nutrition
- Radiation Oncology
- Scientific Reports
- Frontiers in Oncology
- JMIR Cancer

Publications

1. **Jhuang, J.R.**, Lee, C.H., Chiang, C.J., Chen, C.J., & Lee, W.C. (2024). Reduced Burden of Arsenic-Related Cancers After Water Mitigation in Taiwan. *Environment International*, 185, 108542. <https://doi.org/10.1016/j.envint.2024.108542>
2. **Jhuang, J. R.**, Chiu, P. C., Hsieh, T. C., Chen, C. H., Pu, Y. S., & Lee, W. C. (2023). Latency period of aristolochic acid-induced upper urinary tract urothelial carcinoma. *Frontiers in public health*, 11, 1072864. <https://doi.org/10.3389/fpubh.2023.1072864>
3. **Jhuang, J. R.**, Chiang, C. J., Su, S. Y., Yang, Y. W., & Lee, W. C. (2019). Reduction in the Incidence of Urological Cancers after the Ban on Chinese Herbal Products Containing Aristolochic Acid: An Interrupted Time-Series Analysis. *Scientific reports*, 9(1), 19860. <https://doi.org/10.1038/s41598-019-56394-y>
4. **Jhuang, J. R.**, Lee, W. C., & Chan, C. C. (2020). A randomized, double-blind water taste test to evaluate the equivalence of taste between tap water and filtered water in the Taipei metropolis. *Scientific reports*, 10(1), 13387. <https://doi.org/10.1038/s41598-020-70272-y>
5. **Jhuang, J. R.**, Su, S. Y., Chiang, C. J., Yang, Y. W., Lin, L. J., Hsu, T. H., & Lee, W. C. (2022). Forecast of peak attainment and imminent decline after 2017 of oral cancer

incidence in men in Taiwan. *Scientific reports*, 12(1), 5726.

<https://doi.org/10.1038/s41598-022-09736-2>

6. Meng, F. T., **Jhuang, J. R.** [#] (contributed equally), Peng, Y. T., Chiang, C. J., Yang, Y. W., Huang, K. P., & Lee, W. C. (2024). Predicting Lung Cancer Survival to the Future: A Population-Based Cancer Survival Modeling Study. *JMIR public health and surveillance*, 10, e46737. <https://doi.org/10.2196/46737>
7. Tsai, D. R.[#], **Jhuang, J. R.** [#] (contributed equally), Su, S. Y., Chiang, C. J., Yang, Y. W., & Lee, W. C. (2022). A stabilized spatiotemporal kriging method for disease mapping and application to male oral cancer and female breast cancer in Taiwan. *BMC medical research methodology*, 22(1), 270. <https://doi.org/10.1186/s12874-022-01749-9>
8. Lai, C. J.[#], **Jhuang, J. R.** [#] (contributed equally), Tu, Y. K., Liu, C. M., Tsai, C. Y., & Chien, K. L. (2024). Relationship Between Subjective Questionnaires and Videofluoroscopy of Dysphagia Evaluation: A Systematic Review and Meta-Analysis. *The journal of nursing research : JNR*, 32(2), e324. <https://doi.org/10.1097/jnr.0000000000000608>
9. Chiang, C. J., **Jhuang, J. R.**, Yang, Y. W., Zhuang, B. Z., You, S. L., Lee, W. C., & Chen, C. J. (2022). Association of Nationwide Hepatitis B Vaccination and Antiviral Therapy Programs With End-Stage Liver Disease Burden in Taiwan. *JAMA network open*, 5(7), e2222367. <https://doi.org/10.1001/jamanetworkopen.2022.22367>
10. Yun, C. H., **Jhuang, J. R.**, & Tsou, M. T. (2022). Pericardial fat, thoracic peri-aortic adipose tissue, and systemic inflammatory marker in nonalcoholic fatty liver and abdominal obesity phenotype. *Scientific reports*, 12(1), 1958. <https://doi.org/10.1038/s41598-022-06030-z>
11. Kuo, C. L., **Jhuang, J. R.**, Su, S. Y., Chiang, C. J., Yang, Y. W., Lin, L. J., Hsieh, P. C., Hsu, T. H., & Lee, W. C. (2024). Interacting Trends of Colorectal Cancer Incidence: The Combined Effects of Screening and Birth Cohort. *International Journal of Epidemiology* (under review).
12. Lee, P. J., **Jhuang, J. R.**, Chen, Y. C., Su, S. Y., Chiang, C. J., Yang, Y. W., Hsieh, P. C., Chen, M. J., & Lee, W. C. (2023). Urban-Rural Disparity in Birth Cohort Effects on Breast Cancer Incidence. *Journal of urban health : bulletin of the New York Academy of Medicine*, 100(2), 341–354. <https://doi.org/10.1007/s11524-023-00718-x>
13. Su, S. Y., Liaw, Y. P., **Jhuang, J. R.**, Hsu, S. Y., Chiang, C. J., Yang, Y. W., & Lee, W. C. (2019). Associations between ambient air pollution and cancer incidence in Taiwan: an ecological study of geographical variations. *BMC public health*, 19(1), 1496. <https://doi.org/10.1186/s12889-019-7849-z>
14. Wu, H. C., Chien, K. L., **Jhuang, J. R.**, Yang, Y. Y., Liao, W. C. (2023). Peri-onset Non-steroidal Anti-inflammatory Drugs Use and Organ Failure in Acute Pancreatitis: A Multicenter Retrospective Analysis. *Digestive and Liver Disease*, <https://doi.org/10.1016/j.dld.2023.12.010>
15. Hsu, Y. J., Chern, Y. J., **Jhuang, J. R.**, Tsai, W. S., Chiang, J. M., Hung, H. Y., Tsai, T. Y., & You, J. F. (2020). Efficient and Safe Method for Splenic Flexure

Mobilization in Laparoscopic Left Hemicolectomy: A Propensity Score-weighted Cohort Study. *Surgical laparoscopy, endoscopy & percutaneous techniques*, 31(2), 196–202. <https://doi.org/10.1097/SLE.0000000000000884>

16. Hsiao, B. Y., Su, S. Y., **Jhuang, J. R.**, Chiang, C. J., Yang, Y. W., & Lee, W. C. (2021). Ensemble forecasting of a continuously decreasing trend in bladder cancer incidence in Taiwan. *Scientific reports*, 11(1), 8373. <https://doi.org/10.1038/s41598-021-87770-2>
17. Chen, Y. C., Su, S. Y., **Jhuang, J. R.**, Chiang, C. J., Yang, Y. W., Wu, C. C., Lin, L. J., & Lee, W. C. (2022). Forecast of a future leveling of the incidence trends of female breast cancer in Taiwan: an age-period-cohort analysis. *Scientific reports*, 12(1), 12481. <https://doi.org/10.1038/s41598-022-16056-y>
18. Chern, Y. J., You, J. F., Cheng, C. C., **Jhuang, J. R.**, Yeh, C. Y., Hsieh, P. S., Tsai, W. S., Liao, C. K., & Hsu, Y. J. (2021). Decreasing Postoperative Pulmonary Complication Following Laparoscopic Surgery in Elderly Individuals with Colorectal Cancer: A Competing Risk Analysis in a Propensity Score-Weighted Cohort Study. *Cancers*, 14(1), 131. <https://doi.org/10.3390/cancers14010131>
19. Tsai, T. Y., You, J. F., Hsu, Y. J., **Jhuang, J. R.**, Chern, Y. J., Hung, H. Y., Yeh, C. Y., Hsieh, P. S., Chiang, S. F., Lai, C. C., Chiang, J. M., Tang, R., & Tsai, W. S. (2021). A Prediction Model for Metachronous Peritoneal Carcinomatosis in Patients with Stage T4 Colon Cancer after Curative Resection. *Cancers*, 13(11), 2808. <https://doi.org/10.3390/cancers13112808>
20. Liu, H. I., Chiang, C. J., Su, S. Y., **Jhuang, J. R.**, Tsai, D. R., Yang, Y. W., Lin, L. J., Wang, Y. C., & Lee, W. C. (2023). Incidence trends and spatial distributions of lung adenocarcinoma and squamous cell carcinoma in Taiwan. *Scientific reports*, 13(1), 1655. <https://doi.org/10.1038/s41598-023-28253-4>
21. Hsu, C. C., Tsai, D. R., Su, S. Y., **Jhuang, J. R.**, Chiang, C. J., Yang, Y. W., & Lee, W. C. (2023). A Stabilized Kriging Method for Mapping Disease Rates. *Journal of epidemiology*, 33(4), 201–208. <https://doi.org/10.2188/jea.JE20210276>
22. Chen, Y. C., Lien, W. C., Su, S. Y., **Jhuang, J. R.**, Chiang, C. J., Yang, Y. W., & Lee, W. C. (2022). Birth Cohort Effects in Breast Cancer Incidence: Global Patterns and Trends. *American journal of epidemiology*, 191(12), 1990–2001. <https://doi.org/10.1093/aje/kwac116>
23. Chen, Y. C., Chen, Y. Y., Su, S. Y., **Jhuang, J. R.**, Chiang, C. J., Yang, Y. W., Lin, L. J., Wu, C. C., & Lee, W. C. (2024). Projected Time for the Elimination of Cervical Cancer Under Various Intervention Scenarios: Age-Period-Cohort Macrosimulation Study. *JMIR public health and surveillance*, 10, e46360. <https://doi.org/10.2196/46360>
24. Yeh, T. L., Hsu, M. S., Hsu, H. Y., Tsai, M. C., **Jhuang, J. R.**, Chiang, C. J., Lee, W. C., & Chien, K. L. (2022). Risk of cardiovascular diseases in cancer patients: A nationwide representative cohort study in Taiwan. *BMC cancer*, 22(1), 1198. <https://doi.org/10.1186/s12885-022-10314-y>

25. Hsu, H. Y., Chern, Y. J., Hsu, M. S., Yeh, T. L., Tsai, M. C., **Jhuang, J. R.**, Hwang, L. C., Chiang, C. J., Lee, W. C., & Chien, K. L. (2023). Diabetic severity and oncological outcomes of colorectal cancer following curative resection: A population-based cohort study in Taiwan diabetes and colorectal cancer prognosis. *Cancer*, 10.1002/cncr.34975. Advance online publication. <https://doi.org/10.1002/cncr.34975>
26. Hsu, H. Y., Chern, Y. J., Hsu, M. S., Yeh, T. L., Tsai, M. C., **Jhuang, J. R.**, Hsieh, C. T., Chiang, C. J., Lee, W. C., Hwang, L. C., & Chien, K. L. (2024). Colorectal Cancer and Subsequent Diabetes Risk: A Population-based Cohort Study in Taiwan. *The Journal of clinical endocrinology and metabolism*, dgae257. Advance online publication. <https://doi.org/10.1210/clinem/dgae257>
27. Tsai, M. C., Hsu, M. S., Hsu, H. Y., Yeh, T. L., Chiang, C. J., Lee, W. C., **Jhuang, J. R.**, Cheng, S. P., Tseng, P. J., & Chien, K. L. (2023). Investigating the risk of metabolic and cardiovascular comorbidities among patients with parathyroid cancer: a nationwide representative cohort study in Taiwan. *BMC medicine*, 21(1), 249. <https://doi.org/10.1186/s12916-023-02946-z>
28. Tsai, M. C., Hsieh, C. T., Hsu, H. Y., Yeh, T. L., Lee, W. C., Chiang, C. J., Hsiao, B. Y., **Jhuang, J. R.**, Tsai, W. H., Cheng, S. P., Chou, C. L., Lee, C. C., Liu, S. C., Tseng, P. J., & Chien, K. L. (2022). Association between thyroid cancer and cardiovascular disease risk: a nationwide observation study. *Scientific reports*, 12(1), 18438. <https://doi.org/10.1038/s41598-022-22462-z>
29. Yeh, T. L., Hsieh, C. T., Hsu, H. Y., Tsai, M. C., Wang, C. C., Lin, C. Y., Hsiao, B. Y., **Jhuang, J. R.**, Chiang, C. J., Lee, W. C., & Chien, K. L. (2022). The Risk of Ischemic Stroke in Head and Neck Cancer Patients and Those Who Were Treated with Radiotherapy: A Population-Based Cohort Study. *Cancer epidemiology, biomarkers & prevention : a publication of the American Association for Cancer Research, cosponsored by the American Society of Preventive Oncology*, 31(5), 1111–1118. <https://doi.org/10.1158/1055-9965.EPI-21-0753>
30. Hsu, H. Y., Chern, Y. J., Hsieh, C. T., Yeh, T. L., Tsai, M. C., Wang, C. C., Hsiao, B. Y., **Jhuang, J. R.**, Chiang, C. J., Lee, W. C., & Chien, K. L. (2022). Increased standardised incidence ratio of cardiovascular diseases among colorectal cancer patients. *International journal of colorectal disease*, 37(4), 887–894. <https://doi.org/10.1007/s00384-022-04129-3>
31. Hsieh, C. T., Lee, W. C., Chiang, C. J., Wang, C. C., Hsu, H. Y., Lin, H. J., Yeh, T. L., Tsai, M. C., **Jhuang, J. R.**, Hsiao, B. Y., & Chien, K. L. (2023). The Risk of Cancer-Associated and Radiotherapy-Associated Cardiovascular Diseases among Patients with Breast Cancer. *Clinical breast cancer*, S1526-8209(23)00286-0. Advance online publication. <https://doi.org/10.1016/j.clbc.2023.11.002>
32. Hsu, Y. J., Yu, Y. L., **Jhuang, J. R.**, You, J. F., Liao, C. K., Tsai, W. S., Pan, Y. P., & Chern, Y. J. (2024). Comparison of laparoscopic and open surgery for colorectal malignancy in obese patients: a propensity score-weighted cohort study. *International journal of surgery (London, England)*, <https://doi.org/10.1097/JS9.0000000000001536>

Conference Talks

1. 2023, “Methods for Spatiotemporal Analysis of Disease Rates: Application to Arsenic-related Cancers in Taiwan”, 112 年統計學術研討會, National Tsing Hua University, December, Taiwan. [Invited]
2. 2023, “Decreased Burden of Arsenic-Related Cancers Following Arsenic Mitigation for Drinking Water in Taiwan: Gentler Declines in Skin and Uroepithelial Carcinomas than Others”, Taiwan Public Health Joint Annual Conference, Kaohsiung Medical University, September, Taiwan.
3. 2022, “Constructing Spatiotemporal Dynamic Maps of Incidence Rates of Urothelial Carcinoma Using Age-Period-Cohort Kriging”, Taiwan Public Health Joint Annual Conference, National Taiwan University, October, Taiwan.

Poster Presentations

1. 2022, “Constructing Spatiotemporal Dynamic Maps of Incidence Rates of Urothelial Carcinoma Using Age-Period-Cohort Kriging”, 2022 海報展(傑出), Institute of Epidemiology and Preventive Medicine, National Taiwan University, June, Taiwan.
2. 2024, “Gene Mapping in Complex Traits via Rare Variant Intensity Estimation”, Poster competition 2024 (優勝), Institute of Statistical Science, Academia Sinica, January, Taiwan.