

Chi Mai Nguyen

Department of Biostatistics and Health Data Science
Biostatistics & Data Management Core, IU Simon Comprehensive Cancer Center
Indiana University School of Medicine, Indianapolis, IN, USA
Tel: (812)369-9296 E-mail: cmnguyen@indiana.edu

SPECIALIZATION

Applied econometrics to large-scale cross-sectional and longitudinal observational databases in healthcare and socio-economics, including:

- Applied methods of estimating average treatment effects corrected for selection-bias by regression adjustment and inverse probability of treatment weighting schemes,
- Applied linear structural equation modeling to (a) discover pathways linking observed and latent factors as intersecting vertices leading to health outcomes, (b) estimate the direct and indirect, contemporary and ripple effects of observed factors on outcomes once the structure is slightly disturbed,
- Applied generalized principal component analysis,
- Applied dynamic longitudinal panel, and time series analysis,

EDUCATION

Ph.D. in Economics, Indiana University (IU), Bloomington, Indiana, 2010;
M.A. in Economics, Central Michigan University, Mount Pleasant, Michigan, 2004;
B.A. in International Economics, Foreign Trade University, Vietnam, 2001;

PROFESSIONAL APPOINTMENTS

Assistant Research Professor, Department of Biostatistics & Health Data Science, and IU Simon Comprehensive Cancer Center, IU School of Medicine, Indianapolis, IN, USA, August 2022 – present

Research Scientist, Department of Biostatistics & Health Data Science, IU School of Medicine, Indianapolis, IN, USA, November 2021 – August 2022;

Research Scientist, Biostatistics & Data Management Core, IU Simon Comprehensive Cancer Center, IU School of Medicine, Indianapolis, IN, USA, November 2021 – present;

Biostatistician, IU School of Nursing, Bloomington, IN, USA, December 2019 – October 2021;

Research Associate, Research Assistant, Indiana Business Research Center (IBRC), Kelley School of Business, IU, Bloomington, IN, USA, January 2015 – November 2019;

Lecturer, School of Business and Economics, Tan Tao University, Long-An, VNM, August 2011 – May 2012;

Research Fellow, Research Assistant, Department of Economics, IU, Bloomington, IN, USA, 2009 – 2011;

Instructor, Teaching & Research Assistant, Department of Economics, Texas A&M University, College Station, TX, USA, 2004 – 2009;

Adjunct Researcher, Center of Industrial Environment, National Institute of Mining and Metallurgy Science and Technology, Vietnam 2002 – 2016;

PUBLICATIONS

- Nguyen, Chi M., Nguyen, M.P., and Luc, L.D.P. (2023). How public health insurance expansion affects healthcare utilizations in middle and low-income households: an observational study from national cross-section surveys in Vietnam. In Press. *BMC Public Health*,
- Xie, Jingwu, Nguyen, C.M., Turk A., Nan H., Imperiale, T.F., House M., Huang, K., and Su, J. (2022). Aberrant cholesterol metabolism in colorectal cancer represents a targetable vulnerability. In Press. *Genes & Diseases*, <https://doi.org/10.1016/j.gendis.2022.06.002>
- Haaland, Grace, Kunkel, M., Nguyen, C.M., and Wonder, A.H. (2022). Using the Eat Sleep Console Model to Promote Optimal Care and Outcomes for NAS Infants: A Nurse-driven, Multi-disciplinary Initiative. In Press. *Advances in Neonatal Care*, [doi: 10.1097/ANC.0000000000001028](https://doi.org/10.1097/ANC.0000000000001028)
- Chang, Pei-Shiun, Lu, Y.Y., Nguyen, C.M., Suh, Y.N., Luciani, M., Ofner S., and Powel, S.A. (2021). Effects of Qigong Exercise on Physical and Psychological Health among African Americans. *Western Journal of Nursing Research*, 43(6): 551-562, [doi:10.1177/0193945920959067](https://doi.org/10.1177/0193945920959067)
- Nguyen, Mai P., and Nguyen, C.M. (2021). Dominant Factors Affecting Regional Inequality of Infant Mortality in Vietnam: a Structural Equation Modelling Analysis. *International Journal of Health Policy and Management*, 10(8): 475-482, <https://dx.doi.org/10.34172/ijhpm.2020.59>
- Nguyen, Chi M., and Nguyen, M.P. (2020). The Roles of Social Economic Status and Undernutrition in Regional Disparities of the Under-five Mortality Rate in Vietnam. *Tropical Medicine and International Health*, 25(11): 1362-1372, <https://doi.org/10.1111/tmi.13475>
- Chan, Kam C., Chan L.H., and Nguyen, C.M. (2020). Forecasting Oil Futures Market Volatility in a Financialized World: Why Speculative Activities matter. *North American Journal of Economics and Finance*, 54 , <https://doi.org/10.1016/j.najef.2018.10.009>
- Chan, Leo H., Nguyen, C.M., and Chan, K.C. (2015). A New Approach to Measure Speculation in the Oil Futures Market and some Policy Implications, *Energy Policy*, 86: 133-141 , <https://doi.org/10.1016/j.enpol.2015.06.034>
- Chan, Leo H., Nguyen, C.M., and Chan, K.C. (2014). The Information Value of Excessive Speculative Trades on Price Volatility in Oil Futures Markets. *International Financial Markets (Frontiers of Economics and Globalization, Vol. 13)*, Emerald Group Publishing Limited, Bingley, pp. 1-24. [https://doi.org/10.1108/S1574-8715\(2013\)0000013006](https://doi.org/10.1108/S1574-8715(2013)0000013006)
- Chang, Yoosoon, and Nguyen, C.M. (2012). Residual Based Tests for Co-integration in Dependent Panels. *Journal of Econometrics*, 167(2): 504-520, <https://doi.org/10.1016/j.jeconom.2011.09.032>

PROJECTS

- Data Coordinating Center for the Alcoholic Hepatitis Research Network (PI: Wanzhu Tu), NIH-NIAAA U24 AA026969. Role: co-I. Department of Biostatistics and Health Data Science, IU School of Medicine. 2021 – present.
- AlcHepNet Research Data Commons (PI: Wanzhu Tu), NIH-NIAAA U24 AA026969. Role: co-I. Department of Biostatistics and Health Science, IU School of Medicine. 2022 – present.
- Biostatistics and Data Management Core (Dir: Patrick O. Monahan). Role: co-I. IU Simon Comprehensive Cancer Center, IU School of Medicine. 2021 – present.
- Revealing Health Trajectories of Chronic Kidney Disease for Precision Medicine (PIs: Jing Su, and Pengyue Zhang), NIH-1R01LM013771-01A1. Role: co-I. Department of Biostatistics and Health Data Science, IU School of Medicine. 2022 – present.

- Data Analytics of the Community Outreach and Engagement (COE). (PI: Victoria Champion). Role: co-head in data analytics. Office of COE, IU Simon Comprehensive Cancer Center, IU School of Medicine. 2022 – present.
- Cachexia biomarkers and pancreatic cancer, BIOPAC Cachexia project. (PI: Teresa Zimmers). Role: co-I. Indiana University Melvin and Bren Simon Comprehensive Cancer Center, IU School of Medicine. 2022.
- Cholesterol Reduction and Colon Rectal Cancer Relapse and Mortality (PIs: Jingwu Xie, Kun Huang, and Jing Su). Role: co-I. Biostatistics and Data Management Core, IU Simon Comprehensive Cancer Center, IU School of Medicine. 2021 – present.
- Cancer Research Data Commons (PI: Jing Su). Role: co-I. IU Simon Comprehensive Cancer Center, IU School of Medicine. 2021 – present.
- Revealing the progression trajectories of sustained COVID-19-related renal injury using real-world evidence (PI: Jing Su). Role: co-I. Department of Biostatistics and Health Science, IU School of Medicine. 2021 – present.
- Cardiovascular risks in COVID-19 survivors (PI: Jing Su). Role: co-I. Department of Biostatistics and Health Science, IU School of Medicine. 2021 – present.
- Evaluation of risk factors to health outcomes and expenses associated with Alzheimer’s disease in older American (PIs: Mary Lynn Davis-Ajami, and Kosali Simon). Role: co-I. IU School of Nursing – Bloomington. 2020 - 2021;
- Alzheimer’s disease association with hospital length of stay, in-hospital mortality, emergency department visit, and cost outcomes among adults admitted for infection (PIs: Mary Lynn Davis-Ajami, and Kosali Simon). Role: co-I. IU School of Nursing – Bloomington. Podium/Poster presentation in *Academy Health Annual Research Meeting 2021*;
- Qigong impacts on the spiritual well-being of African American (PI: Pei-Shiun Chang). Role: co-I. IU School of Nursing. 2020;
- Students and population estimates and projections (PI: Matthew Kinghorn). Role: Research assistant. Indiana Business Research Center (IBRC), Kelley School of Business. 2019;
- Principal component regression approach to assessing industrial structure and regional characteristics for U.S. counties (PI: Timothy Slaper). Role: Research associate. IBRC, Kelley School of Business. Presented at the *North American Meetings of the Regional Science Association International* sponsored by the *North American Regional Science Council* November 2018;
- Innovation Index v2.0, and social capital measures. Role: Research associate. IBRC, Kelley School of Business. Funded in part by the U.S. Commerce Department's Economic Development Administration. 2016;
- Health care and related policies on transition to Universal Health Care in Vietnam (PI: Mai P. Nguyen). Role: Adjunct researcher. Department of Medical Services Administration, Ministry of Health, Vietnam. 2018 – present;

WORKING PAPERS

- Nguyen, Chi M., and Su, J. “Colorectal cancer screening reduces 1-year mortality and medical costs: real-world evidence from the largest commercial medical claims database in the US”, accepted by the *American Society of Clinical Oncology* Annual meeting 2023 poster presentation, 2023;
- Nguyen, Chi M., Nguyen, M.P., and Lan, L.D.P, “How does Private Health Insurance Supplement Public Health Insurance and Encourage Preventive Care Usage? a Longitudinal Study in

- Australia,” accepted by the *Professional Society for Health Economics and Outcomes Research (ISPOR) 2023 Annual Conference* for podium oral/poster presentation, 2023;
- Tu, Wanzhu., Liangpunsakul, S., Nguyen, C.M., Healey, R., Li, Y., Radaeva, S., Gawrieh, S., Bataller, R., Su, Jing, “Hospitalization and mortality in commercially insured patients with alcohol-associated hepatitis,” submitted to *Hepatology Communications*, 2023;
- Eadon, Michael, Su, J., Zhang, P., Powell, N., Hoffman, C., Nguyen, C.M. “Re-examine associations of CYP2C19*17 metabolizer with Proton-Pump Inhibitors on Acute Kidney Injury”, 2023;
- Su, Jing, Jin, N., Li, Z., Kettler, C.D., Barton, B., Puetz, G.L, Nguyen, C.M., McGrath, D., Chen, Y., Yang, B., Shah, V., Radaeva, S., Gawrieh, S., and Tu, W. “The Alcoholic Hepatitis Network Research Data Commons (ARDaC): Design and Development”, accepted by the *American Medical Informatics Association (AMIA) 2022 Annual Symposium* for podium oral presentation, 2022;
- Davis-Ajami, Mary L., Nguyen, C.M., Chang, C.H., Gupta, S., Khan, B.A., Solid, C.A., Sharu, H.E., Boustani, M., Yates, B., and Simon, K., “Mortality and Intensive Care Unit Discharge Location Among Patients with Alzheimer’s Disease and Related Dementia”, submitted to *Journal of the American Medical Directors Association*, 2022;

MEMBERSHIPS

- The Professional Society for Health Economics and Outcomes Research (ISPOR);
- American Society of Clinical Oncology (ASCO);
- Academy Health, a nonpartisan, nonprofit professional organization dedicated to advancing the fields of health services research and health policy (AcademyHealth);
- Indiana University Melvin and Bren Simon Comprehensive Cancer Center (IUSCCC is a member of American Cancer Society);

PRESENTATIONS

- All-Of-Us Community Outreach and Engagement onsite meeting, CTSI, Indiana University School of Medicine, Indianapolis, Indiana, USA, Feb. 2023;
- Cancer Prevention and Control (CPC) monthly meeting, Indiana University School of Medicine, Indianapolis, Indiana, USA, Feb. 2023;
- Department of Biostatistics and Health Data Science, Indiana University School of Medicine, Indianapolis, Indiana, USA, May 2022;
- The 20th Annual Symposium of *Society for Nonlinear Dynamics and Econometrics* in Istanbul, Turkey, April 2012;
- The 45th Annual Conference of *Canadian Economics Association* in Ottawa, Ontario, Canada, January 2011.