

RESUME
CHI MAI NGUYEN

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WORK EXPERIENCE

Research Experience

Biostatistician at School of Nursing, Bloomington, Indiana University, 2019 – present

Main duties: support and collaborate with faculty to develop rigorous statistical analyses using either primary or secondary datasets, to investigate impact of healthcare practices and/or services on health outcomes, as well as health associated factors, aiming to deliver evidence-based policy implications; cooperate to communicate different statistical approaches with clinical researchers and policy researchers;

Assistant Economic Researcher at Indiana Business Research Center (IBRC), Kelley School of Business, Indiana University, 2015 – 2019;

Main duties: assist in collecting and verifying data; help to construct innovative and socio-economic metrics; conduct statistical analyses and modeling as assigned;

Research Fellow at Indiana University, 2010 – 2011;

Research Assistant at Indiana University, 2009 – 2010; at Texas A&M University, 2004 – 2005 and 2008; at Central Michigan University, 2002 – 2004;

Main duties: develop simulations, oversee and maintain large survey and socio-economic datasets; provide effective exploratory analysis, unstructured and structured statistical analyses with suitable post-estimation testing procedures; predict trends; extract useful insights and policy implications from analyzing the datasets; write and convey technical researches to audience in a practical way;

Teaching Experience

Lecturer, Economics (in English): Principles of Economics, and Research Methodology at Tan Tao University, Long An, Vietnam 2011 – 2012;

Instructor, Economics: Intermediate Macroeconomics at Texas A&M University, Texas 2008;

Main duties: provide training at different levels of economic and statistical analysis;

SPECIALIZATION Applied Econometrics with interests in longitudinal panel analysis, predictive modelling, and generalized principal component analysis;

SELECT PROJECTS

Health associated factors and risks to the elderly with Alzheimer's Disease in the U.S., with Mary Lynn Davis-Ajami, 2020;

Qigong impacts on the spiritual well-being of African American, with Pei-Shiun Chang, 2020;
Students and Population Estimates and Projections, with Matthew Kinghorn, IBRC, 2019;
Principal Component Analysis Approach to Assessing Industrial Structure and Regional Characteristics for U.S. Counties, with Timothy Slaper, IBRC, Nov. 2018, discussion paper in North American Meetings of the Regional Science Association International sponsored by NARSC;
Regional Specialization and Diversity Measures for Regional Economic Development, with Timothy Slaper, and Ping Zheng, IBRC, 2017;
Healthcare and Social Workforces in Response to Hoosier's Aging Population, 2017 (using longitudinal panel analysis);
The [Innovation Index v2.0](#) and Social Capital measures, IBRC, 2016-2017;
The Role of Healthcare Workforce in Improving Health Outcomes in Vietnam¹ (using Principal Component Analysis, and panel analysis), with Mai P. Nguyen, Tolib Mirzoev, & Thi M. Le;
Factors Affecting Individual Decisions on Private Healthcare Services over Public ones in Vietnam (using decision tree CHAID for exploratory analysis, and logistic regression for predictive modeling), with Mai P. Nguyen;
Crucial Factors Reducing Infant Mortality in Vietnam (using Structural Equation Modeling), with Mai P. Nguyen;

PUBLICATIONS

9. "Effects of Qigong exercise on physical and psychological health among African Americans," with Pei-Shiun Chang, Yvonne Y. Lu, Susan Ofner, Savannah A. Powel, and Young N. Suh, *Western Journal of Nursing Research*, August 2020, <https://doi.org/10.1177/0193945920959067>;
8. "The Roles of Social Economic Status and Undernutrition in Regional Disparities of the Under-five Mortality Rate in Vietnam," with Mai P. Nguyen, *Tropical Medicine and International Health*, August 2020, <https://doi.org/10.1111/tmi.13475>;
7. "Dominant Factors Affecting Regional Inequality of Infant Mortality in Vietnam: a Structural Equation Modelling Analysis," with Mai P. Nguyen, *International Journal of Health Policy and Management*, April 2020, <https://dx.doi.org/10.34172/ijhpm.2020.59>;
6. "The State of Indiana Housing Market," with Matthew Kinghorn, <https://www.ibrc.indiana.edu/studies/Housing2019.pdf>, Sept. 2019;
5. "Forecasting Oil Futures Market Volatility in a Financialized World: Why Speculative Activities matter," with Leo H. Chan and Kam C. Chan, *North American Journal of Economics and Finance*, October 2018, <https://doi.org/10.1016/j.najef.2018.10.009>;
4. "Knowledge Creation and Innovation in the Hoosier State", with Ping Claire Zheng and Timothy F. Slaper, *Indiana Business Review*, Spring 2016;

¹ One study was published by *Human Resources for Health* (2016):
<https://doi.org/10.1186/s12960-016-0165-0>

3. "A New Approach to Measure Speculation in the Oil Futures Market and some Policy Implications," with Leo H. Chan and Kam C. Chan, *Energy Policy*, v86, 2015, <https://doi.org/10.1016/j.enpol.2015.06.034>;
2. "The Information Value of Excessive Speculative Trades on Price Volatility in Oil Futures Markets," with Leo H. Chan and Kam C. Chan, *Frontiers of Economics and Globalization*, v13 2013. ISBN: 978-1-78190-312-4 [https://doi.org/10.1108/S1574-8715\(2013\)0000013006](https://doi.org/10.1108/S1574-8715(2013)0000013006);
1. "Residual Based Tests for Cointegration in Dependent Panels," with Yoosoon Chang, *Journal of Econometrics*, v167 (2), 2012, <https://doi.org/10.1016/j.jeconom.2011.09.032>;

EDUCATION

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

PRESENTATIONS

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;
Econometrics Workshop, Department of Economics, Texas A&M University, College Station, Texas, USA, 2009;

PROGRAMMING STATA, MatLab, R, SAS, Gauss;

WORK AUTHORIZATION U.S. Lawful Permanent Resident;