

Nuwan Indika

Loyola University New Orleans
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EDUCATION

Ph.D. in Economics, Kansas State University, Manhattan, USA Jan. 2014 - Dec. 2019
Dissertation: “Essays on Vertical Integration, Vertical Contracts, and Competitive Effects”

M.A. in Economics, Western Illinois University, Macomb, USA Aug. 2012 - Dec. 2013
M.A. in Economics, University of Colombo, Colombo, Sri Lanka Jan. 2010 - July 2012
B.A. in Economics (Specialized Econometrics) Jan. 2005 - June 2009
University of Colombo, Colombo, Sri Lanka (*Summa Cum Laude*)

TEACHING INTERESTS

Business Analytics, Business Research Methods, Data Analytics, Data Science, Econometrics, Microeconomics, Industrial Organization, Mathematical Economics, Statistical Software

TEACHING EXPERIENCE

Lecturer of Business Analytics Aug. 2023 – Present
College of Business, Loyola University New Orleans
Business Analytics, MySQL, Microeconomics

Senior Lecturer Jan. 2020 – May 2022
Department of Business Economics, University of Colombo, Colombo, Sri Lanka
Graduate-level: Financial Econometrics, Statistics, Business Research Methods II
Undergraduate level: Econometrics, Microeconomics, Managerial Economics

Primary Instructor Aug. 2015 - Dec. 2019
Department of Economics, Kansas State University, Manhattan, USA
Courses taught:
Principles of Macroeconomics: Fall 2015, Summer 2016, Spring (2017, 2018, 2019)
Intermediate Macroeconomics: Fall (2016, 2019 - *Online Teaching*)
Intermediate Microeconomics: Spring 2016
Money and Banking: Summer (2017, 2018), Fall 2018

Tutor, Department of Economics, Kansas State University, Manhattan, USA Aug. 2015 - Dec. 2015

Graduate Teaching Assistant Jan. 2014 - July 2015
Department of Economics, Kansas State University, Manhattan, USA
Graduate-level: Macroeconomics I
Undergraduate level: Intermediate Macroeconomics, Intermediate Microeconomics, Principles of Macroeconomics, Principles of Microeconomics, Principles of Transportation

Lecturer Feb. 2012 - June 2012
Department of Business Economics, University of Colombo, Colombo, Sri Lanka
Courses taught: Econometrics, Mathematical Economics, Comparative Economics, Microeconomics and Statistical Software: STATA, Eviews, and SPSS

RESEARCH INTERESTS

Econometrics, Big Data, Health Data Science

RESEARCH

Peer-reviewed Publications:

1. Xu, X., Raza, S., **Gadara, N. M.**, Ramachandran, R. A., Riviere, J., ... & Jaber-Douraki, M. (2023). Identification of genes encoding targets associated with adverse events in multiple myeloma. *Journal of Clinical Oncology* 41 (16_suppl), 1556-1556
2. Xu, X., Jaber-Douraki, M., Anwer, F., Faiman, B., Williams, L., Mazzoni, S. A., ... **Gadara, N. M.**, ... & Raza, S. (2023). A novel risk assessment metric for antimyeloma therapies and drug interactions. *Journal of Clinical Oncology* 41 (16_suppl), e24082-e24082
3. Jaber-Douraki, M., Xu, X., Faiman, B., Wyckoff, G., Riviere, J., Khouri, J., ... **Gadara, N. M.**, ... & Raza, S. (2023). Disparities in multiple myeloma: A global perspective on drug toxicity trends. *Journal of Clinical Oncology* 41 (16_suppl), 8015-8015
4. Ampadi Ramachandran, R., Tell, L. A., Rai, S., **Millagaha Gedara, N. I.**, Xu, X., Riviere, J. E., & Jaber-Douraki, M. (2023). An Automated Customizable Live Web Crawler for Curation of Comparative Pharmacokinetic Data: An Intelligent Compilation of Research-Based Comprehensive Article Repository. *Pharmaceutics*, 15(5), 1384
5. Sanders, S., **Gedara, N. I. M.**, Walia, B., Boudreaux, C., & Silverstein, M. (2022). Does Aging Make Us Grittier? Disentangling the Age and Generation Effect on Passion and Perseverance. *Journal of Data Science*, 1-11.
6. **Millagaha Gedara, N.I.**, 2021. The Men's Marriage Premium in the United States: What Remains after Controlling for Publication Bias and Heterogeneity? *Colombo Business Journal*, 12(2), pp.53–79. DOI: <http://doi.org/10.4038/cbj.v12i2.82> (Win the Best Graduate Student Paper Award, Department of Economics, Kansas State University, 2016)
7. Xu X, Kawakami J, **Millagaha Gedara NI**, Riviere J, Meyer E, Wyckoff GJ, Jaber-Douraki M. Data-driven methodology for discovery and response to pulmonary symptomology in hypertension through statistical learning and data mining: Application to COVID-19 related pharmacovigilance. *Elife*. 2021 Nov 23;10:e70734.
8. Huber, H.F., Jaber-Douraki, M., DeVader, S., Aparicio-Lopez, C., Nava-Chavez, J., Xu, X., **Millagaha Gedara, N.I.**, Gaudreault, N.N. and Delong, R.K. (2021). Targeting SARS-CoV-2 Variants with Nucleic Acid Therapeutic Nanoparticle Conjugates. *Pharmaceutics*, 14(10), 1012.
9. **Millagaha Gedara, N.I.**, Xu, X., DeLong, R., Aryal, S., Jaber-Douraki, M. (2021). Global Trends in Cancer Nanotechnology: A Qualitative Scientific Mapping Using Content-Based and Bibliometric Features for Machine Learning Text Classification. *Cancers, Special Issue Machine Learning Techniques in Cancer*, 13, 4417. <https://doi.org/10.3390/cancers13174417>
10. Jaber-Douraki, M., Dinani, S. T., **Millagaha Gedara, N. I.**, Xu, X., Richards, E., Maunsell, F., ... & Tell, L. A. (2021). Large-scale data mining of rapid residue detection assay data from HTML and PDF documents: improving data access and visualization for veterinarians. *Frontiers in Veterinary Science*, 8, 787.
11. Jaber-Douraki, M., Meyer, E., Riviere, J., **Gedara, N. I. M.**, Kawakami, J., Wyckoff, G. J., & Xu, X. (2021). Pulmonary adverse drug event data in hypertension with implications on COVID-19 morbidity. *Scientific reports*, 11(1), 1-9.
12. **Indika, M.G.N.**, Perera, H.A.P.K., Abey Siriwardena, N.K. (2020). How does COVID-19 influence the MSME Sector in Sri Lanka? *Sri Lanka Journal of Advanced Social Studies*, Vol 10

13. **Indika, N.** (2018). Does marriage affect men's labor market outcomes? A semi-parametric longitudinal analysis, *Journal of International and Global Economic Studies*.
14. Chandrasiri, S., & **Indika, .N.** (2013). Industrial productivity for sustained growth: the case of Sri Lankan manufacturing industries, *Sri Lanka Economics Journal*
15. Gunaruwan, T.L., **Indika, .N.** & Gajanayake, A. (2012). Scope for effective energy conservation practices in the information and communication technology industry, *Sri Lanka Economics Journal*

Technical Publication:

Apland, K., Blitz, B. K., Calabia, D., Fielder, M., Hamilton, C., **Indika, N.**, ... & Yarrow, E. (2014). Birth registration and children's rights: a complex story.

Conference Publications

Does vertical integration in the U.S. Carbonated Soft Drink industry lead to anticompetitive effects? (2018) 88th Annual Meetings, Southern Economic Association, 13th Economics Graduate Student Conference, Washington University in St. Louis

A Panel Data Analysis of Sri Lanka's Trade: The Gravity Model Approach (2010) 5th International Research Conference in Management & Finance, University of Colombo, Sri Lanka, 2010

Papers under Review:

"Measuring the Price, Quantity and Welfare Effects of Vertical Integrations in the U.S. Carbonated Soft Drink Industry" 2021, [*Econometrica*]

"Evaluation of safety profiles of SARS-CoV-2 Ad26.COV2.S adenoviral vector and mRNA-1273 and BNT162b2 mRNA vaccines for diabetic/hypertensive and normal recipients using empirical Bayes data analytics" 2021, [*Expert Review of Vaccines*]

Working Papers:

"Global trend, antimicrobial use in animals"

"Using county-level variables to classify counties in the U.S. according to the number of confirmed COVID-19 cases: an unsupervised machine learning approach"

"Does aging make us gritter? Advanced modeling for disentangling the age and generation effect on passion and perseverance"

"The competitive effects of vertical contracts between manufacturers and bottlers: evidence from the U.S. carbonated soft drinks industry"

"The association between COVID death rate and country GDP"

RESEARCH EXPERIENCE

Collaborate as a Research Associate, 1DATA Consortium, Kansas State University; Aug. 2023 - Present
Fields: Health Data Science, Big Data

Collaborate as a Research Associate, Nov. 2019 - Present
With Prof. Sanders and Prof. Wallia of Syracuse University's Falk College;

Post Doctorate, 1DATA Consortium, Kansas State University; June 2022 – July 2023
Fields: Health Data Science, Big Data

Consultant:

The Plan International, London, UK June 2013 - Aug. 2013

- Involved in a multi-country research project (India, Kenya, Sierra Leone, and Vietnam)
- Assisted research team by analyzing three large data sets
- Applied non-parametric techniques to explore the birth registration

The World Bank, Colombo, Sri Lanka Jan. 2010 - July 2010

- Assisted the research team related to the analytical process, literature searches, compiling data, data analysis, and technical writing

Research Analyst:

Institute of Health Policy, Colombo, Sri Lanka Nov. 2008 - Feb. 2009

- Analyzed a comprehensive health system data set on the Maldives
- Applied GIS mapping for health data in Sri Lanka
- Coordinated with senior researchers and performed various tasks associated with conducting research and analyzing collected data

Ceylon Chamber of Commerce, Economic Intelligence Unit, Colombo, Sri Lanka Feb. 2008 - May 2008

- Worked on different projects relating to Small and Medium Enterprise (SME) initiated by German Technical Cooperation Agency (GTZ)
- Provided in-depth analysis on the macro-economy, trade, and taxes
- Examined private sector issues, constraints, and opportunities of the local and international network
- Provided bespoke reports for policy advocacy

AWARDS, HONORS, AND SCHOLARSHIPS

Graduate Teaching Award for undergraduate teaching excellence, Department of Economics, Kansas State University	2018
Phi Kappa Phi membership	2018
College of Arts & Sciences Graduate Student Research Travel Award, Kansas State University	2018
Best Graduate Student Paper Award, Department of Economics, Kansas State University	2016
Economics and Decision Sciences Travel Award, Western Illinois University	2013
Principal Recipient of Fulbright Scholarship	2012-2013
Best Undergraduate Student Paper Award, Sri Lanka Economic Association	2009
Professor of Economics Gold Medal, University of Colombo, Sri Lanka	2009
M.W.Jayasuriya Memorial prize for gaining the best results in Economics, University of Colombo, Sri Lanka	2007-2009
Neil Bandaranayake Memorial prize for gaining the best results in Economics, University of Colombo, Sri Lanka	2007-2009

CONFERENCE PRESENTATIONS AND INVITED SEMINAR

Department of Economics, Simmons University, Boston	2019
Southern Economic Association, 88 th Annual Meeting, Washington, DC	2018
Washington University in St. Louis, 13 th Annual Economics Graduate Students conference	2018
Department of Economics, University of Kansas, Lawrence, KS	2018
Missouri Valley Economic Association, 50 th Annual Meeting, Kansas City, MO	2013
Illinois Economics Association/DePaul University, 43 rd Annual Meeting, Chicago, IL	2013

PROFESSIONAL ACTIVITIES

Conduct Business Analytics Workshop:

Department of Decision Sciences, University of Sri Jayewardenepura, Sri Lanka	2020
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Service to professional conferences:

Discussant, Southern Economic Association, 88 th Annual Meeting, Washington, DC	2018
Discussant, Illinois Economics Association, 43 rd Annual Meeting, Chicago, IL	2013
Discussant, Missouri Valley Economic Association, 50 th Annual Meeting, MO	2013

Referee services: Economics Bulletin, Southern Economic Association, The Indian Economic Journal, Managerial Finance, Colombo Business Journal

PROFESSIONAL TRAINING

The Association of College and University Educators (ACUE)'s Certificate in Effective College Instruction Archives	2019
Graduate Teaching Assistant Recognition of Achievement in Professional Development, Teaching & Learning Center, Kansas State University	2017-2018

PROFESSIONAL AFFILIATIONS

American Economic Association, Fulbright Association, Southern Economic Association
Illinois Economic Association, Sri Lanka Economist Association

COMPUTER SKILLS AND DATA SCIENCE

Econometric Software: STATA, MATLAB, R, Python, Mathematica, SAS, SPSS, EViews, GAUSS, ArcGIS

Typography: LaTeX, Scientific WorkPlace, Microsoft Office

Modern Data Science: Machine Learning, Big Data Processing, Natural Language Processing