

Curriculum Vitae

VU MINH KHUONG

Professor (in Practice) of Economic Development Strategy and Policy Analysis

Lee Kuan Yew School of Public Policy, National University of Singapore



Contact:

+ Telephone: (65) 6516-8695

+ Fax: (65) 6775-6471

+ Email: sppkmv@nus.edu.sg

Mailing Address:

LKY School of Public Policy, NUS

469C Bukit Timah Road

Singapore 259772

Research Interests: Economic Development Strategy, Productivity Analysis, Digital Transformation, Energy Transition and Sustainable Development (with a focus on ASEAN countries, China, and India).

EDUCATION

- PhD in Public Policy Harvard University
- M.B.A. Harvard Business School
- B.A. (Highest Honors), Mathematics, Hanoi National University

RESEARCH PROFILE

<https://orcid.org/0000-0001-9807-7003>

<https://scholar.google.com/citations?user=EJVjlo4AAAAJ&hl=en>

Professor Vu was honored with awards for research and teaching excellence at the Lee Kuan Yew School of Public Policy. Professor Vu has been consistently recognized in the Top 2% Scientists Worldwide, according to a study from Stanford University, since 2021.

2021: [4 LKYSPP faculty recognised among Top 2% of Scientists Worldwide - LKYSPP Event](#)

Employment Experience

Assistant, Associate Professor, and Professor (in Practice) <i>Lee Kuan Yew School of Public Policy, National University of Singapore</i>	Singapore 2006 – Present
Guest Associate Professor <i>Faculty of Business and Commerce, Keio University</i>	Tokyo, Japan May 2006 – June 2006
Research Associate <i>Program on Technology and Economic Policy, Harvard Kennedy School of Government</i>	Cambridge, MA, USA 2004 – 2006
Research Associate <i>Prime Minister's Research Commission</i>	Hanoi, Vietnam 1998 – 1999
Chief Economic Adviser <i>City Mayor's Office</i>	Haiphong City, Vietnam 1996 – 1998
Vice-Chairman <i>Dinh Vu (Deep C) Economic Zone</i>	Haiphong City, Vietnam 1996 – 1999
Senior Consultant <i>Barents Group of KPMG Consulting</i>	Washington D.C., USA 1995 – 1996
Chief Executive Officer <i>Song Cam Chemical Company</i>	Haiphong City, Vietnam 1988 – 1992
Various positions (CFO) <i>Song Cam Chemical Company</i>	Haiphong City, Vietnam 1986 – 1988
Computer Programmer (IBM System/360) <i>Computing Center, Vietnam National Power Company</i>	Ho Chi Minh City 1983 – 1986

NUS/LKYSP Services

- Chair, Teaching Excellence Committee, Lee Kuan Yew School of Public Policy (2019-2022)
- Co-Chair, MPA Program, Lee Kuan Yew School of Public Policy (2019-2021)

Academic Services

- Associate Editor: *Journal of Telecommunications Policy* (since 2018).
- Guest Editor (with Barbara Fraumeni), *Journal of Telecommunications Policy*, Special Issue on the Digital Economy in honor of Dale W. Jorgenson (2023).
- Guest Editor (with Dale Jorgenson), *Journal of Telecommunications Policy*, Special Issue on Effects of ICT on Economic Growth and Structural Change (2016).
- Reviewer: *Economica*, *Journal of Development Economics*, *World Development*, *Journal of Economic Geography*, *Telecommunications Policy*, *Oxford Development Studies*, *Empirical Economics*, *Journal of International Development*, *International Journal of Public Administration*, *Technological Forecasting & Social Change*, *Structural Change and Economic Dynamics*, *Technology in Society*, *MDPI Sustainability*, and *Journal of Southeast Asian Economies*.

Community Services

- Member of Advisory Council, Chandler Institute of Governance, Singapore
<https://www.chandlerinstitute.org/>

Recognition, Awards, and Scholarships

- The Research Excellence Award, Lee Kuan Yew School of Public Policy, 2012.
- A winner of the Best Journal Article Award from the Academy of Management (Public and Non-profit Division), 2011.
- The Annual Teaching Excellence Award, Lee Kuan Yew School of Public Policy, 2011.
- The Annual Teaching Excellence Award, Lee Kuan Yew School of Public Policy, 2009.
- Dean's Award for Excellence in Student Teaching, Harvard Kennedy School of Government, Harvard University, 2003.
- Fulbright Scholarship, 1993-1995.
- Ministry of Education Award for the Most Distinguished University Graduates, 1980.

Teaching Experience

Courses taught

- Quantitative Analysis for Public Policy
- Econometrics for Policy Analysis

- Research Method for PhD student
- Financial management for policy makers
- Economic growth in developing Asia
- Economic development in the digital age
- Governance Study Project
- Green transformation and policy in Asia

Courses offered in AY2022-2023

- ***PP5274: Financial management for policy makers***
- ***PP5533: Green transformation and policy in Asia***
- ***PP5539: Economic Development in the Age of Paradigm Shifts***

Research Projects

- Energy transition and Green Transformation in ASEAN countries
- The Development of the Digital Economy in G20 and ASEAN
- The Dynamics of Economic Growth, Structural Change, and Integration in the ASEAN Economic Community
- 5G and AI Development and Adoption in ASEAN Compared to China and India
- ASEAN in the Global Dynamics of Green Transition: Patterns, Underlying Factors, and Policy Issues

Industry Engagement Experience

Dr. Vu advises international organizations (including UNIDO, UNDP, IMF, World Bank, IFC, ILO, ADB, APO, USAID), , tech and energy companies (Microsoft, Facebook, Sembcorp, and Qualcomm), and governments (Singapore, Vietnam, the Philippines).

Previously, Dr. Vu held significant government positions in Vietnam, including Vice Chairman of Dinh Vu (Deep C) Economic Zone, Deputy Chief of People Committee Office of Hai Phong City, and CEO of Song Cam Chemical Enterprise. Notably, at a young age, he accomplished the successful turnaround of Song Cam Chemical Enterprise from bankruptcy, a well-recognized achievement after being elected CEO by the company's 400 workers.

SELECTED PUBLICATIONS

Journal Articles

2025

Vu, K. (2025) Electronic toll collection (ETC) on highways: Global trends, Vietnam's experience, and policy lessons, *Telecommunications Policy*, Volume 49, Issue 1, March 2025, 102892.

<https://doi.org/10.1016/j.telpol.2024.102892>

2024

Vu, K. Rohman I., Bohlin E. (2024) Promoting the Adoption of Digital Technology: Strategic Policy Insights from a Network Effects Model, *Telecommunications Policy*, Volume 48, Issue 10, November 2024, 102852.

<https://doi.org/10.1016/j.telpol.2024.102852>

Fraumeni B. and Vu K. (2024). Editorial for the special issue honoring professor Dale W. Jorgenson and his pioneering contributions to unraveling the impact of digital technology on economic growth, *Telecommunications Policy*.

<https://doi.org/10.1016/j.telpol.2023.102698>

Vu, K. (2024). Book review of "Interconnected Worlds: Global Electronics and Production Networks in East Asia" by Henry Wai-Chung Yeung. Stanford, CA: Stanford University Press, 2022. *Journal of Asian Studies*, 83(1)

<https://read.dukeupress.edu/journal-of-asian-studies/article-abstract/doi/10.1215/00219118-10872840/384177/Interconnected-Worlds-Global-Electronics-and>

2023

Vu, K. and Asongu S. (2023) Patterns and Drivers of Financial Sector Growth in the Digital Age: Insights from a Study of Industrialized Economies, *Research in International Business and Finance*. Volume 66, October 2023, 102075

<https://doi.org/10.1016/j.ribaf.2023.102075>

Vu, K. and Nguyen T. (2024) Exploring the Contributors to the Digital Economy: Insights from Vietnam with Comparisons to Thailand, *Telecommunications Policy*

<https://doi.org/10.1016/j.telpol.2023.102664>

Vu, K. and Amann J. (2024) An Analysis of ICT Hardware Manufacturing in Industrialized Economies: Growth Patterns, Productivity Performance, and Driving Forces, *Telecommunications Policy*

<https://doi.org/10.1016/j.telpol.2023.102675>

2022

Vu, K. and Hartley, K. (2022). Sources of transport sector labor productivity performance in industrialized countries: Insights from a decomposition analysis, *Transport Policy* 129, 204-218.
<https://doi.org/10.1016/j.tranpol.2022.10.017>

Vu, K. and Nguyen H. (2022) Drivers of Economic Catch-up in Asia: A Study of ASEAN Countries with Comparative Views of China and India; *Journal of Southeast Asian Economies* Vol. 39, No. 1 (2022), pp. 42–67.
<https://www.ijstor.org/stable/27130820>

Vu, K. and Hartley, K. (2022). Effects of Digital Transformation on Electricity Sector Growth and Productivity: A Study of Thirteen Industrialized Economies, *Journal of Utilities Policy*. Volume 74, February 2022, 101326
<https://www.sciencedirect.com/science/article/abs/pii/S0957178721001594>

2021

Vu, K. (2021). Asia in the Global Dynamics of Embracing the Digital Revolution: Performance and Strategic Priorities for Policy Action, *Japan Spotlight*, <https://www.ief.or.jp/journal/>

Vu K., Haraguchi N, and Amann J. (2021). Deindustrialization in developed countries amid accelerated globalization: Patterns, influencers, and policy insights, *Structural Change and Economic Dynamics*, available online 20 September 2021.
<https://www.sciencedirect.com/science/article/abs/pii/S0954349X21001272>

Vu, K. and Hartley, K. (2021) Drivers of growth and catch-up in the tourism sector of industrialized economies, *Journal of Travel Research*; <https://doi.org/10.1177/00472875211019478>.

Jorgenson D. and Vu K. (2021) The G20 and the world economy: Performance and prospects, *Journal of Policy Modeling*.
<https://doi.org/10.1016/j.jpolmod.2021.02.006>

Hanafizadeh, P., Barkhordari F. and Vu, K. (2021) Insight monetization intermediary platform using recommender systems, *Electron Markets*.
<https://doi.org/10.1007/s12525-020-00449-w>.

2020

Vu, K., and Hartley K. (2020). “A New Consensus for Growth in the 21st Century,” *ETHOS*, Issue 22, December 2020.
<https://www.csc.gov.sg/articles/a-new-consensus-for-growth-in-the-21st-century>

Hartley K. and Vu K. (2020). "Fighting fake news in the COVID-19 era: policy insights from an equilibrium model," *Policy Sciences*, Volume 53: 735–758.

<https://link.springer.com/article/10.1007/s11077-020-09405-z>

Vu K. and Asongu S. (2020) Backwardness advantage and economic growth in the information age: A cross-country empirical study, *Technological Forecasting and Social Change*, Volume 159, October 2020; <https://doi.org/10.1016/j.techfore.2020.120197>

Vu, K. Hartley K., & Kankanhalli A. (2020). Predictors of Cloud Computing Adoption: A Cross-Country Study, *Telematics and Informatics*, Volume 52, September.

<https://doi.org/10.1016/j.tele.2020.101426>

Feijoo, C., Kwon Y., Bauer J., Bohlin E., Howell B., Jain R., Potgieter P., Vu K., Whalley J., Xia J. (2020) "Harnessing artificial intelligence (AI) to increase wellbeing for all: The case for a new technology diplomacy," *Telecommunication Policy*, 44.

<https://doi.org/10.1016/j.telpol.2020.101988>

Vu, K. (2020). "ASEAN economic prospects amid emerging turbulence: Development challenges and implications for reform." *Foreign Policy Paper*, Brookings Institution.

[https://www.brookings.edu/wp-](https://www.brookings.edu/wp-content/uploads/2020/07/FP_20200710_asean_economic_prospects_vu.pdf)

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Forge S. and Vu K. (2020). Forming a 5G strategy for developing countries: A note for policymakers, *Telecommunications Policy* 44 (7), 101975.

<https://doi.org/10.1016/j.telpol.2020.101975>

Vu, K., Hanafizadeh P., & Bohlin, E. (2020). "ICT as a driver of economic growth: A survey of the literature and directions for future research". *Telecommunication Policy*, 44(2), March.

<https://doi.org/10.1016/j.telpol.2020.101922>

Vu, K. (2020). "Sources of Growth in the World Economy: A Comparison of G7 and E7 Economies", in Fraumeni, Barbara ed., *Measuring Economic Growth and Productivity: Foundations, KLEMS Production Models, and Extensions*, Academic Press, Cambridge, MA.

<https://www.elsevier.com/books/measuring-economic-growth-and-productivity/fraumeni/978-0-12-817596-5>

2019

Lin J., Vu K., and Hartley K. (2019) "A Modeling Framework for Enhancing Aid Effectiveness" *Journal of Economic Policy Reform*; 1-23; available at <https://doi.org/10.1080/17487870.2018.1551137>

Vu, K. (2019) "The internet-growth link: An examination of studies with conflicting results and

new evidence on the network effect”, *Telecommunications Policy*, 43 (5), 474-483.
<https://doi.org/10.1016/j.telpol.2019.04.002>.

Vu K., and Hartley K. (2019) “Learning to Catch up in Developing Asia”, in Arkebe Oqubay and Kenichi Ohno, eds. *How Nations Learn: Technological Learning, Industrial Policy, and Catch-up*, Oxford University Press.
<https://www.oxfordscholarship.com/view/10.1093/oso/9780198841760.001.0001/oso-9780198841760>

2018

Vu K., and Hartley K. (2018) “Promoting Smart Cities in Developing Countries: Policy Insights from Vietnam”, *Telecommunications Policy* 42 (10), 845-859.
<https://doi.org/10.1016/j.telpol.2017.10.005>.

Vu K., (2018) “Embracing globalization to promote industrialization: Insights from the development of Singapore's petrochemicals industry” *China Economic Review*, 2018, 48 (April): 170-185.
<https://doi.org/10.1016/j.chieco.2017.01.003>

2017

Jorgenson D. and Vu, K. (2017). “The Outlook for Advanced Economies”, *Journal of Policy Modeling*, 39 (4), 2017: Pages 670-682.
<https://doi.org/10.1016/j.jpolmod.2016.05.010>

Lin J. and Vu K. (2017). “Co-ordination through an Asian Lens”, (with Justin Lin) in John Page and Finn Tarp (Eds), *The Practice of Industrial Policy*, Oxford University Press, April 2017.

Vu, K. (2017). “ICT Diffusion and Production in ASEAN Countries: Patterns, Performance, and Policy Directions”, *Telecommunications Policy*, 41(10), 2017: 964-980
<https://doi.org/10.1016/j.telpol.2017.04.005>

Vu, K. (2017). “Structural Change and Economic Growth: Empirical Evidence and Policy Insights from Asian Economies”, *Structural Change and Economic Dynamics*, 2017, 41 (April-June): 64–77.
<https://doi.org/10.1016/j.strueco.2017.04.002>

2016

Jorgenson D. and Vu, K. (2016). “The Outlook for Emerging Economies”, *Journal of Policy Modeling* 38 (4): 670–682, 2016

Jorgenson D. and Vu, K. (2016). “The Impact of ICT Investment on Economic Growth: A Global View”, *Telecommunications Policy*, 40 (5): 381-382, 2016.

Jorgenson, D. and Vu K. (2016) "The ICT revolution, world economic growth, and policy issues", *Telecommunications Policy*, 40 (5): 383-397.

2015

Vu, K. (2015). "Can Vietnam Achieve More Robust Economic Growth? Insights from a Comparative Analysis of Economic Reforms in Vietnam and China, *Journal of Southeast Asian Economies*, 31(1) April 2015.

Vu, K. (2015). "Effects of China and India on manufactured exports of the G7 economies," *Contemporary Economic Policy*, 33 (2): 265–278, April 2015.

Vu, K. and Austin R. (2015). "Vietnam's Embrace of ICT for Economic Development: Success and Future Challenges" Case Study, *Ivey Publishing*, 2015.

2014

Vu, K. and Gurtoo A. (2014). "Utility sector performance post reforms: investigating the South Asian economies," *Poverty and Public Policy* 6(2): 157–175, 2014.

Vu, K. (2014). "The Institutional Root Causes of the Challenges to Vietnam's Long-Term Economic Growth," *Asian Economic Papers*, MIT Press, 15.1 (2014).

2013

Vu, K. (2013). "Information and Communication Technology (ICT) and Singapore's Economic Growth," *Journal of Information Economics and Policy* 25.4 (2013): 284–300.

Jorgenson D. and Vu, K. (2013). "The Emergence of the new economic order: Growth in the G7 and the G20," *Journal of Policy Modelling* 35.3 (2013).

Vu, K. (2013). "A Note on Interpreting the Beta Convergence Effect," *Economics Letters* 118.1 (2013): 46–49.

2011

Vu, K. (2011). "Sources of Singapore's Economic Growth, 1965–2008: Trends, Patterns and Policy Implications," *Journal of Southeast Asian Economies* 28.3 (2011): 315-336.

Jorgenson D. and Vu, K. (2011). "The Rise of Developing Asia and the New Economic Order," *Journal of Policy Modelling* 33.5 (2011): 698–716.

Vu, K. (2011). "ICT as a Source of Economic Growth in the Information Age: Empirical Evidence from the 1996-2005 Period," *Telecommunications Policy* 35.4 (2011): 357-372.

Fuller, B. D. and Vu, K. (2011). "Exploring the Dynamics of Policy Interaction: Feedback among and Impacts from Multiple, Concurrently Applied Policy Approaches for Promoting Collaboration," (with Boyd Fuller), *Journal of Policy Analysis and Management* 30.2 (2011): 359-380. (Winner of the 2011 best journal article award from the Public and Non-profit Division of Academy of Management, USA).

2005-2010

Jorgenson D. and Vu, K. (2010). "Potential Growth of the World Economy," *Journal of Policy Modelling* 32.5 (2010): 615-631.

Vu, K. and Sovacool B. (2010). "Developing Asia: A Comparative View of Energy Issues and Policy Implications," (with Benjamin Sovacool), *East Asian Policy* 2.3 (2010).

Vu, K. & MAS (2010). "Sources of Singapore's Economic Growth 1990-2009" (in collaboration with the Monetary Authority of Singapore), *Macroeconomic Review*, Volume IX, Issue 1, April 2010.

Feng D., Sovacool B., and Vu K. (2010) "The Barriers to Energy Efficiency in China: Assessing Household Electricity Savings and Consumer Behavior in Liaoning Province," *Energy Policy* 38.2 (2010): 1202-1209.

Jorgenson D. and Vu, K. (2009). "Projecting World Economic Growth: The Contribution of Information Technology," (with Dale W. Jorgenson), *The Review of Socionetwork Strategies* 3.2 (2009): 35-49.

Jorgenson D. and Vu, K. (2009). "Economic Reform and Performance: A Comparative Study of China and Vietnam," *China: An International Journal* 7.2 (2009): 217-253.

Jorgenson D. and Vu, K. (2009). "Growth Accounting within the International Comparison Program," *World Bank ICP Bulletin* 6.1 (2009): 3-13.

Jorgenson D. and Vu, K. (2010). "Information Technology and the World Growth Resurgence," (with Dale W. Jorgenson), *German Economic Review* 8.2 (2007): 125-145.

Jorgenson D. and Vu, K. (2005). "Information Technology and the World Economy," *Scandinavian Journal of Economics* 107.4 (2005): 631-650.

Books

Vu, K. (2021). *Hãy Trỗi dậy, Việt Nam! (Let's Rise Vietnam!)*, first edition, Knowledge Publishing House, February 2021.

<https://www.netabooks.vn/hay-troi-day-viet-nam>

Vu, K. (2013). *The Dynamics of Economic Growth: Policy Insights from Comparative Analyses in Asia*, Edward Elgar, December 2013.

<https://www.amazon.sg/Dynamics-Economic-Growth-Insights-Comparative/dp/0857939637>
