

## Curriculum Vitae

**VU MINH KHUONG**

**Associate Professor**

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

	<b>Contact:</b> + Telephone: (65) 6516-8695 + Fax: (65) 6775-6471 + Email: <a href="mailto:sppkmv@nus.edu.sg">sppkmv@nus.edu.sg</a>	<b>Mailing Address:</b> LKY School of Public Policy, NUS 469C Bukit Timah Road, Singapore 259772
	<b>Research Interests:</b> Economic growth, productivity, digital transformation, and economic development strategy, with a special focus on Asia and the impact of the ICT revolution. <a href="https://scholar.google.com/citations?user=EJVjlo4AAAAJ&amp;hl=en">https://scholar.google.com/citations?user=EJVjlo4AAAAJ&amp;hl=en</a>	

Dr. Vu Minh Khuong is an Associate Professor at the Lee Kuan Yew School of Public Policy, National University of Singapore. His research and teaching interests concentrate on strategy and policy concerning economic development and digital transformation.

Professor Vu's research articles have appeared on prestigious international journals, including *Technological Forecasting and Social Change*, *Journal of Policy Analysis and Management*, *Information Economics and Policy*, *Telematics and Informatics*, *Telecommunication Policy*, *Scandinavian Journal of Economics*, *German Economics Review*, *Journal of Structural Change and Economic Dynamics*, *China Economics Review*, *Journal of Contemporary Economic Policy*, *Energy Policy*, and *Journal of Policy Modeling*.

Professor Vu has published two books and frequently writes press articles for newspapers and other media, sharing his views on a range of issues on economic development and transformation in the digital age.

Dr. Vu is active in providing extensive consulting and advisory services to international organizations, technology companies, and government agencies in many countries. In particular, he has worked with UNIDO, UNDP, IMF, World Bank, IFC, ILO, APO, USAID, KPMG, Microsoft, and Qualcomm. Before transitioning into academia, Professor Vu had held various government positions in Vietnam, including Deputy Chief of the Haiphong City Government Office, and Vice-Chairman. He was elected CEO by 400 workers of the Song Cam Chemical Enterprise, a state-owned company in Haiphong City in 1998 when the company was on the verge of bankruptcy. With the success of turning around the company, he received a Fulbright Scholarship to pursue his MBA at Harvard Business School in 1993-1995.

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Professor Vu together with Boyd Fuller received the 2011 Best Article Award of the Public and Non-Profit Division of the Academy of Management (USA). He was the winner of the LKY School Research Excellence Award in 2012 and the LKY School Annual Teaching Excellence Award in 2009 and 2011.

Professor Vu received a BA in Mathematics from Hanoi University (with highest honors) and an MBA and PhD in Public Policy from Harvard University.

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### Education

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**PhD in Public Policy** **Harvard University, 2005**

- Thesis: *Information and Communication Technology and Global Economic Growth: Contributions, Impacts, and Policy Implications*
- Thesis Committee: Dale W. Jorgenson (Primary Adviser), Dwight Perkins, Robert Jensen

**M.B.A.** **Harvard Business School, 1995**

**B.A. (Highest Honors), Mathematics** **Hanoi National University, 1980**

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### Employment Experience

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**Assistant and Associate Professor** **Singapore**  
*Lee Kuan Yew School of Public Policy,* 2006 – Present  
*National University of Singapore*

**Guest Associate Professor** **Tokyo, Japan**  
*Faculty of Business and Commerce, Keio University* May 2006 – June 2006

**Research Associate** **Cambridge, MA, USA**  
*Program on Technology and Economic Policy,* 2004 – 2006  
*Harvard Kennedy School of Government*

**Research Associate** **Hanoi, Vietnam**  
*Prime Minister's Research Commission* 1998 – 1999

**Chief Economic Adviser** **Haiphong City, Vietnam**  
*City Mayor's Office* 1996 – 1998

**Vice-Chairman** **Haiphong City, Vietnam**  
*Dinh Vu Economic Zone* 1996 – 1999

**Senior Consultant** **Washington D.C., USA**  
*Barents Group of KPMG Consulting* 1995 – 1996

<b>Chief Executive Officer</b> <i>Song Cam Chemical Company</i>	<b>Haiphong City, Vietnam</b> 1988 – 1992
<b>Various positions (CFO)</b> <i>Song Cam Chemical Company</i>	<b>Haiphong City, Vietnam</b> 1986 – 1988
<b>Computer Programmer (IBM System/360)</b> <i>Computing Center, Vietnam National Power Company No. 2</i>	<b>Ho Chi Minh City</b> 1983 – 1986
<b>Army Officer</b> <i>Corp. 318</i>	<b>Vung Tau, Vietnam</b> 1981 – 1983

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#### NUS Services

- Chair, Teaching Excellence Committee, Lee Kuan Yew School of Public Policy (2019-2021)
- Co-Chair, MPA Program, Lee Kuan Yew School of Public Policy (since 2020)

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#### Academic Services

- Associate Editor: *Journal of Telecommunications Policy* (since 2018).
- 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*, *Technology in Society*, *MDPI Sustainability*, and *Journal of Southeast Asian Economies*.

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#### Community Services

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

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#### 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.

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### Teaching Experience

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#### ***Courses taught***

- Quantitative analysis for public policy
- Research Method for PhD student
- Financial management for policy makers
- Economic growth in developing Asia
- Economic development in the digital age (online)
- Governance Study Project (online)

#### ***Online micro-credential courses (one course per day, 8:30am-8:00pm)***

- PP5019 Economic Development Strategy
- PP5020 Analysis of Economic Growth
- PP5021 Digital Transformation and Economic Prosperity
- PP5022 Embracing Globalization for Economic Growth

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### Current Research Projects

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- The Dynamics of Economic Growth, Structural Change, and Integration in the ASEAN Economic Community
- Digital Transformation in ASEAN Countries: Patterns, Drivers, and Policy Issues
- Economic Insights from Studying the EU KLEMS Database and Lessons for ASEAN

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### Publications

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#### **Books**

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

Vu, K. (2013). *Việt Nam hành trình đi đến phần vinh (Vietnam: The Voyage to Prosperity)*, second edition, Knowledge Publishing House, August 2013 (first edition: 2011).

**2020**

Vu, K., and Hartley, K. (2020). "A New Consensus for Growth in the 21st Century," *ETHOS*, Issue 22, November 2020, forthcoming.

<https://www.csc.gov.sg/ethos>

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.

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)

[content/uploads/2020/07/FP\\_20200710\\_asean\\_economic\\_prospects\\_vu.pdf](https://www.brookings.edu/wp-content/uploads/2020/07/FP_20200710_asean_economic_prospects_vu.pdf)

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**

"Promoting Smart Cities in Developing Countries: Policy Insights from Vietnam" (with Kris Hartley), *Telecommunications Policy* 42 (10), 845-859. <https://doi.org/10.1016/j.telpol.2017.10.005>.

"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**

"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>

"The Outlook for Advanced Economies" (with Dale Jorgenson), *Journal of Policy Modeling*, 39 (4), 2017: Pages 670-682. <https://doi.org/10.1016/j.jpolmod.2016.05.010>

"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>

"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.

## **2016**

"The Outlook for Emerging Economies" (with Dale Jorgenson), *Journal of Policy Modeling* 38 (4): 670–682, 2016

"The Impact of ICT Investment on Economic Growth: A Global View", (with Dale Jorgenson) *Telecommunications Policy*, 40 (5): 381-382, 2016.

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

## **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.

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

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

## **2014**

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

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

## **2013**

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

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

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

## **2011**

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

“The Rise of Developing Asia and the New Economic Order,” (with Dale W. Jorgenson), *Journal of Policy Modelling* 33.5 (2011): 698–716.

“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.

“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**

“Potential Growth of the World Economy,” (with Dale W. Jorgenson), *Journal of Policy Modelling* 32.5 (2010): 615-631.

“The Use of E-Government to Create Public Value in Developing Countries: Some Conceptual Issues,” *The 6th International Conference on e-Government Proceedings*, 30th September and 1st October 2010 (listed in the Thomson Reuters ISI Index); published by Academic Publishing Limited, Reading, UK, September 2010; ISBN: 978-1-906638-76-4.

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

“Policy Recommendations for Enhancing Vietnam’s Economic Competitiveness and Development,” *Vietnam Economic Management Review*, CIEM, Ministry of Planning and Investment, No. 33, July-August 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.

“The Barriers to Energy Efficiency in China: Assessing Household Electricity Savings and Consumer Behavior in Liaoning Province,” (with Feng Dianshu and Benjamin Sovacool), *Energy Policy* 38.2 (2010): 1202-1209.

“Projecting World Economic Growth: The Contribution of Information Technology,” (with Dale W. Jorgenson), *The Review of Socionetwork Strategies* 3.2 (2009): 35-49.

“Economic Reform and Performance: A Comparative Study of China and Vietnam,” *China: An International Journal* 7.2 (2009): 217-253.

“India-Vietnam: A Comparative Analysis of Economic Performance,” (with Mukul Asher), *International Journal of Business Insights* 2.1 (2009): 4-16.



“Growth Accounting within the International Comparison Program,” (with Dale W. Jorgenson), *World Bank ICP Bulletin* 6.1 (2009): 3-13.

“Information Technology and the World Growth Resurgence,” (with Dale W. Jorgenson), *German Economic Review* 8.2 (2007): 125-145.

“Information Technology and the World Economy,” (with Dale W. Jorgenson), *Scandinavian Journal of Economics* 107.4 (2005): 631-650.

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### Selected Short Articles and Op-eds

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“The UK–Vietnam Free Trade Agreement could be a strategic surprise,” *The East Asia Forum*, Australian National University, 12 November 2020

<https://www.eastasiaforum.org/2020/11/12/the-uk-vietnam-free-trade-agreement-could-be-a-strategic-surprise/>

“Leveraging the EU-Vietnam Free Trade Agreement for development” (with Kris Hartley), *The East Asia Forum*, Australian National University, 13 April 2020

<https://www.eastasiaforum.org/2020/04/13/leveraging-the-vietnam-eu-free-trade-agreement-for-development/>

“What’s next after the Trump–Kim summit in Hanoi?” *The East Asia Forum*, Australian National University, March 2019.

<https://www.eastasiaforum.org/2019/03/20/whats-next-after-the-trump-kim-summit-2/>

“What’s next after the Trump–Kim summit?” *The East Asia Forum*, Australian National University, June 2018.

<http://www.eastasiaforum.org/2018/06/19/whats-next-after-the-trump-kim-summit/>

“Six Questions on North Korea in the Trump–Kim Summit,” *Global-is-Asian*, June 2018

<https://lkyspp.nus.edu.sg/gia/article/six-questions-on-north-korea-in-the-trump-kim-summit>

“Hanoi the ideal place for the Trump–Kim summit,” *The East Asia Forum*, Australian National University, March 2018;

<http://www.eastasiaforum.org/2018/03/12/hanoi-the-ideal-place-for-the-trump-kim-summit/>

Effective structural change: A new approach to analysing economic growth, *Global-Is-Asian*, May 2017 (Interview)

<https://lkyspp.nus.edu.sg/gia/article/effective-structural-change-a-new-approach-to-analysing-economic-growth>

The Formation of the ASEAN Economic Community (AEC) & Policy Issues for Japan's Globalization Strategy, *Japan SPOTLIGHT*, Japan Economic Foundation, March 2016.

“Vietnam needs to focus on productivity in its next wave of reforms,” *The East Asia Forum*, Australian National University, February 13, 2015.

“Vietnam plays catch-up with China’s successful reforms,” *The East Asia Forum*, Australian National University, December 13, 2013.

“Building ASEAN as a Learning Community” (with Kris Hartley), *The East Asia Forum*, Australian National University, November 29, 2013.

“Information Technologies and the Rise of Asia” (with Dale W. Jorgenson), *Global-is-Asian*, Issue 10, June 2011.

“Vietnam: Macroeconomic Challenges and the Road to Prosperity,” *The East Asia Forum*, Australian National University, November 17, 2010.

“Vietnam: Today Determines Tomorrow,” *The East Asia Forum Quarterly*, Australian National University, Volume 2, Issue 2, April-June 2010.

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#### Selected Articles on Vietnamese Newspapers

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“Ba thách thức trong mô hình phát triển và bài toán đặc khu kinh tế,” *Tuoi Tre*, 06/06, 2018, available at

<http://thegioihoinhap.vn/thoi-su/xa-hoi/ts-vu-minh-khuong-ba-thach-thuc-trong-mo-hinh-phat-trien-va-bai-toan-dac-khu-kinh-te/>

“Dự thảo luật đặc khu kinh tế hiện nay chưa thật khoa học và có tầm,” *Baomoi*. 09/05/2018, available at

<https://baomoi.com/pgs-ts-vu-minh-khuong-du-thao-luat-dac-khu-kinh-te-hien-nay-chua-that-khoa-hoc-va-co-tam/c/25962627.epi>

“Ba giải pháp cho 3 đặc khu kinh tế, tạo bước phát triển đột phá cho đất nước,” *CafeF*, 08/04/2018, available at

<http://cafef.vn/ba-giai-phap-cho-3-dac-khu-kinh-te-tao-buoc-phat-trien-dot-pha-cho-dat-nuoc-20180407223921337.chn>

“Việt Nam có thể tạo đột phá trong cách mạng công nghiệp 4.0,” *Vietnam Investment Review*, 21/02/2018, available at

<https://baodautu.vn/pgs-ts-vu-minh-khuong-viet-nam-co-the-tao-dot-pha-trong-cach-mang-cong-nghiep-40-d77079.html>

“Cách mạng công nghiệp 4.0: bắt đầu bằng đổi thay cách nghĩ,” *Nguoi Do Thi*, 27/08/2017, available at

<https://nguoidothi.net.vn/cach-mang-cong-nghiep-4-0-bat-dau-bang-doi-thay-cach-nghi-9589.html>

“Khát vọng lớn - nền móng yếu - khó đi xa,” *Tuoi Tre*, 08/02/2017, available at

<http://tuoitre.vn/tin/chinh-tri-xa-hoi/20170208/khat-vong-lon-nen-mong-yeu-kho-di-xa/1261420.html>

“Hãy trỗi dậy, Việt Nam!,” *Tuoi Tre*, 31/12/2016, available at

<http://tuoitre.vn/tin/chinh-tri-xa-hoi/thoi-su-suy-nghi/20161231/hay-troi-day-viet-nam/1244935.html>; and <https://www.youtube.com/watch?v=DMAYRjirWRg>

“Việt Nam sẽ mạnh hơn ngàn lần nếu tiết trừ nạn chạy chọt, gian dối.” *Voice of Vietnam*, 04/08/2016; available at

<http://vov.vn/chinh-tri/viet-nam-se-manh-hon-ngan-lan-neu-tiet-tru-nan-chay-chot-gian-doi-536673.vov>

“Việt Nam nên sớm thực hiện kiểm toán chiến lược”, *Vietnam Economics Times*, 05/05/2016; available at

<http://vneconomy.vn/thoi-su/viet-nam-nen-som-thuc-hien-kiem-toan-chien-luoc-2016050406191401.htm>

“To improve Ho Chi Minh City: Aspirations for advancement”, *TUOI TRE NEWS*, 12/17/2015; available at

<http://tuoitrenews.vn/city-diary/32276/to-improve-ho-chi-minh-city-aspirations-for-advancement>

“Nâng tầm chiến lược”, *Saigon Times*, 09/07/2015, available at

<http://www.thesaigontimes.vn/132762/Nang-tam-chien-luoc---doi-hoi-cua-dat-nuoc.html>