



**Visiting/Affiliate/Non-Academic Positions/Fellowships:**

Visiting Scholar, School of International Relations and Public Affairs & Dr. Seaker Chan Center for Comparative International Development Studies, Fudan University, Shanghai, China (2016-2017).

Visiting Professor, American University of Sovereign Nations, Scottsdale, Arizona (2014-2017).

Visiting Professor, Graduate School of Decision Sciences, Tokyo Institute of Technology (2009-2013).

Visiting Professor, Globelics Academy PhD School on Innovation and Economic Development, Tampere University, Tampere, Finland

12. 2004-2008: Steering Committee Member, Oslo International Summer School in the Social Sciences, University of Oslo.
13. 2001-2004: Head, Department of Information and Communications Management, National University of Singapore.
14. 1998-2000: Member, Senate Committee on Graduate Education, Hong Kong University of Science and Technology (elected member).

**Teaching and Research Interests:**

Global Sustainability  
Sustainability Science  
Sustainable Innovation  
Technology and Innovation  
Science and Technology in Society  
Multi-level Transition Toward Sustainability  
Climate Change  
Energy Policy  
Risk and Resilience



G. Parayil, "The Green Revolution: A Case Study of Technological Change." In D.J. Jeremy and G. Tweedale (eds.), *Business History*. London: Sage Publications, 2004, pp. 143-159.

G. Parayil, "Introduction: Is Kerala's Development Experience a 'Model'?" In G. Parayil (ed.) *Kerala: The Development Experience: Reflections on Sustainability and Replicability*. London: Zed Books 2000, pp. 1-15.

G. Parayil,

- G. Haslam, J. Jupesta, and G. Parayil, "Assessing Fuel Cell Vehicle Innovation and the Role of Policy in Japan, Korea, and China." *International Journal of Hydrogen Energy*, Vol. 38, 2012, pp. 14612-14623.
- A. Adenle, E.J. Morris, and G. Parayil, "Status of development, regulation and adoption of GM agriculture in Africa." *Food Policy*, Vol. 43, 2013, pp. 159-166.
- J. Jupesta, R. Boer, G. Parayil and Y. Harayama, "Managing the Transition to Sustainability: Evaluating Green Growth Policies in Indonesia" *Environmental Innovation and Societal Transitions* (Elsevier) Vol. 1(2): 2011, 187–191.
- J. Jupesta, Y. Harayama, and G. Parayil, "Sustainable business model for biofuel industries in Indonesia" *Sustainability Accounting, Management and Policy* Vol. 2(2): 2011, 231–247.
- A. Adenle, S. Sowe, G. Parayil, and O. Aginam "Analysis of open source biotechnology in developing countries." *Technology in Society*, Vol. 34(3), 2012 pp. 256-269.
- G. Parayil, "Mapping technological trajectories of the Green Revolution and the Gene Revolution from modernization to globalization." *Research Policy*, Vol. 32 (6), 2003: 971-990.
- G. Parayil, "From 'Silicon Island' to 'Biopolis of Asia': Innovation Policy and Shifting Competitive Strategy in Singapore." *California Management Review*, Vol. 47(2), 2005: 50-73.
- G. Parayil and F. Tong, "Pasture-Led to Logging-Led Deforestation in the Brazilian Amazon: The Dynamics of Socio-Environmental Change." *Global Environmental Change*, Vol. 8(1), 1998: 63-79.
- G. Parayil, "Sustainable Development: A Normatively Neutral Development Paradigm?" *Journal of Applied Philosophy*, Vol. 15(2), 1998: 179-193.
- G. Parayil, "Environment and Development: A Normative Appraisal of Sustainable Development." *Philosophy and Social Action*, Vol. 22(2), 1996: 23-36.
- G. Parayil, "The 'Kerala-Model' of Development: Development and Sustainability in the Third World." *Third World Quarterly*, Vol. 17(5), 1996: 941-957.
- J.J. Thomas and G. Parayil, "Bridging the Social and Digital Divides in Andhra Pradesh and Kerala: A Capabilities Approach," *Development and Change*, Vol. 38(3), 2008: 409-435.
- G. Parayil and T.E.D. Yeo, "More than Electronic Toll Booths: Singapore's Electronic Road Pricing Innovation." *Prometheus*, Vol. 23(2), 2005: 209-226.
- G. Parayil and T.T. Sreekumar, "Industrial Development and the Dynamics of Innovation in Hong Kong." *International Journal of Technology Management*, Vol. 27(4), 2004: 369-392.

- G. Parayil, "Practical Reflexivity as a Heuristic for Theorizing Technological Change." *Technology in Society*, Vol. 19(1), 1997: 161-175.
- G. Parayil, "Economics and Technological Change: An Evolutionary Epistemological Inquiry." *Knowledge, Technology and Policy*, Vol. 12(1), 1999: 60-73 (reprint).
- G. Parayil, "Technology as Knowledge: An Empirical Affirmation." *Science Communication*, Vol. 13(1), 1991: 36-48.
- G. Parayil, "The Digital Divide and Increasing Returns: Contradictions of Informational Capitalism." *The Information Society*, Vol. 21(1), 2005: 41-51
- K.J. Joseph and G. Parayil, "Can Trade Liberalization Bridge the Digital Divide? A Preliminary Assessment of the Information Technology Agreement (ITA) under the WTO," *Economic and Political Weekly*, Vol. 43, 2008: 46-53.
- G. Parayil and T.T. Sreekumar, "Kerala's Experience of Development and Change: Lessons Old and New." *Journal of Contemporary Asia*, Vol. 33(4), 2003: 465-92.
- T.T. Sreekumar and G. Parayil, "Contentions and contradictions of tourism as development option: the case of Kerala, India." *Third World Quarterly*, Vol. 23 (3), 2002: 529-548.
- T.T. Sreekumar and G. Parayil, "Democracy, Development and New Forms of Social Movements," *Indian Journal of Labour Economics*, Vol. 45(2): 387-410, 2002.
- G. Parayil, "The 'Revealing' and 'Concealing' of Technology." *Asian Journal of Social Science*, Vol. 26(1), 1998: 17-28.
- G. Parayil, "The Perils of Trying to be Objective without Being Reflexive: The Kerala-Model Revisited." *Journal of Critical Asian Studies*, Vol. 30(2), 1998: 28-31
- G. Parayil and W. Shrum, "Non-Governmental Research Organizations in Kerala, India." *Science, Technology, and Development*, Vol. 14(1), 1996: 122-132.
- G. Parayil, "Economics and Technological Change: An Evolutionary Epistemological Inquiry." *Knowledge and Policy*, Vol. 7(1), 1994: 79-91.
- G. Parayil, "Technological Change as a Problem-Solving Activity." *Technological Forecasting and Social Change*, Vol. 40(3), 1991: 235-248
- G. Parayil, "Schumpeter on Invention, Innovation and Technological Change." *Journal of the History of Economic Thought*, Vol. 13, 1991: 78-89
- G. Parayil, "Models of Technological Change: A Critical Review of Current Knowledge." *History and Technology*, Vol. 10, 1993: 105-126.

G. Parayil, "Social Movements, Technology and Development: A Query and an Instructive Case from the Third World." *Dialectical Anthropology*, Vol. 17, 1992: 339-35.

G. Parayil, "The Green Revolution in India: A Case Study of Technological Change." *Technology and Culture*, Vol. 33(4), 1992: 737-756



**Selected Keynotes, Seminars, and Conference Presentations:**

1. “The Return of the ‘Machinery Question’ and the Failed Promise of Globalization,” School of Interdisciplinary Global Studies, University of South Florida, May 11, 2017; also delivered as Teppola Distinguished Visiting Professor Lecture, Willamette University, Salem, Oregon, April 18, 2017.
2. “Science, Technology and Innovation in China and India: Are There Opportunities for Collaboration?” International Workshop on China and India, Dr. Seaker Chan Center for Comparative Political Development Studies, Fudan University, Shanghai, China, June 3, 2017.
3. “The Relevance of the United Nations in the Contemporary World,” University of Western Oregon, Monmouth, Oregon, May 4, 2017 (invited keynote address).
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15. "Re-imagining/re-framing technology choice for sustainability" Department of Science and Technology Studies, Rensselaer Polytechnic Institute, May 20, 2013 (invited seminar presentation).
16. "Innovation systems and economic development: global-local linkages and equity" and "Mapping the technological trajectories and innovation systems in biotechnology from modernization to globalization." Technical University of Lisbon, May 23 – June 3, 2005 (invited lectures at PhD Summer School in Innovation and Economic Development).
17. "Climate Change and Global Innovation Challenges," Keynote Lecture at Graduate Research Institute for Policy Studies Tokyo (GRIPS), 25 January 2010.
18. "Intellectual property rights and TRIPS", Workshop on FDI-led Innovation, Transfer and Dissemination of Knowledge and Multilateral Global and Regional Regulation, jointly organized by University of Oslo and University of Warwick, Oslo 3-5 May 2007.
19. "National Innovation Policy and Shifting Competitive Strategy in Singapore." International Conference on New Asian Dynamics in Science, Technology

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74. "Conceptualizing Technological Change: The Green Revolution in India." Departments of Administrative Sciences, and Science-Technology Studies, Colby College, Waterville, Maine, February 27, 1992.
75. "Technological Change as a Problem-Solving Activity." Department of Science, Technology and Society, New Jersey Institute of Technology,

4. PhD examination committee chair of Arne Fevolden, "Innovation and Capacity Utilisation in the Information and Communications Industries," University of Oslo, Centre for Technology, Innovation and Culture, November 2007.
5. MA supervisor of Christopher Bach, "The Social Construction of Software: Innovations in Open Source Software Communities," European Studies on Society, Science & Technology, University of Oslo and University of Maastricht, August 2007.
6. PhD examination and evaluation committee chair of Marisa D'Mello, "Understanding Selves and Identities of Information Technology Professionals: A Case Study from India," Centre for Technology, Innovation and Culture, University of Oslo, Sep 2006.
7. PhD examination and evaluation committee chair of Jyotsna Sahay, "Understanding Organizational Implementation of GIS: Case Study of a Public Sector Agency in Bangalore, India," Centre for Technology, Innovation and Culture & Institute of Informatics, University of Oslo, December 2006.
8. MA supervisor of Carl Henrik Knutsen, "Political Regime Types and Economic Growth: Are Democracies Better at Increasing Prosperity?" Department of Political Science, University of Oslo, May 2006
9. MA thesis external examiner of Lotte Van Boxem, "Measuring Globalization – Opening the Blackbox: A Critical Analysis of Globalization Indices," University of Maastricht, October 2006.
10. MA thesis external examiner of Ana Kacarska, "Learning to destroy: VoIPs versus traditional telephony," Lund University, November 2006
11. MA supervisor of Berna Beyhan, "Consuming Innovations: A Case Study on the Domestication of Internet Banking in Turkey," Globalization, Innovation and Policy and European Studies of Society, Science and Technology, University of Oslo & Istanbul Technical University, November 2005.
12. PhD examination & evaluation committee chair of Brian Portelli, "Foreign Direct Investment, Multinational Enterprises and Industrial Development: Backward Linkages and Knowledge Transfer in Tanzania," Centre for Technology, Innovation and Culture, University of Oslo, December 2005.
13. MA supervisor of Esra Ozakan, "Global Sweatshop Chains: The Case of Turkish Apparel Sector," Globalization, Innovation and Policy and European Studies of Society, Science and Technology, University of Oslo & Istanbul Technical University, November 2005
14. MA thesis supervisor of Louisa H. Soon, "Entrepreneurial Universities in a Knowledge

- Kerala, India: Illusion or Reality?" Faculty of Social Sciences, University of Hong Kong, December 1996
19. PhD external examiner of M.V.S. Aparna, "Actor-Networks in Technology Development," Department of Sociology, School of Social Science, University of Hyderabad, India, August 1996
  20. MPhil thesis examination committee chair of Wong Kin Wai, Anthony, "Dilemmas of Gender: A Discourse Analysis" Division of Social Science, Hong Kong University of Science and Technology, June 1997
  21. MPhil thesis examination committee chair and member of thesis committee of Mitsumori Shiro, "Adoption of Mobile Communication Standards: A Comparative Study of China, Japan, South Korea and Hong Kong," Division of Social Science, Hong Kong University of Science and Technology, May 1997
  22. MPhil thesis examination committee chair of Leung Wai Sze, "Jurgen Habermas' Communicative Theory," Division of Humanities, Hong Kong University of Science and Technology, September 1997.

**Journal & Book Manuscripts Referee:** World Development; Social Studies of Science; California Management Review; Research Policy; International Journal of Biotechnology; Telecommunication Policy; New Media and Society; Social Epistemology; Technology and Culture; Science as Culture; South Asia; Critical Asian Studies; The Information Society; Agricultural History; Taylor & Francis; Palgrave Macmillan; Anthem Press; UNU Press.

**Editorial Board Member/Advisory Board Member:** Innovation and Development; Asian Journal of Biotechnology and Development; Sustainability Science; Science, Technology and Society; Anthem Press; UNU Press

**Grant Referee:** National Science Foundation