

Sujata N Gamage

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Sujata specializes in planning, evaluation and capacity building *in* education, ICT in education, research and research networks and public sector performance *using* data analytics, institutional research, scoping studies, systematic reviews, statistical methods and simulations. She is currently a Senior Research Fellow at LIRNEasia, a regional think tank based in Colombo, Sri Lanka.

Her recent research includes an evaluation of ICT use in schools in Sri Lanka, ICT for development or ICT4D education in universities in five countries in the Asia Pacific, Indicators of workforce readiness for the 21st century in the context of ICT-enabled freelance work, and a systematic review of factors affecting the use of ICTs in the classroom by teachers. Her recent public service work includes serving as a Member of the Committee of Experts to review examinations and evaluation system and roles and functions of the Department of Examination of Sri Lanka and serving as the co-convenor of the Education Forum Sri Lanka (www.educationforum.lk).

Her professional career includes serving as (a) Director-General of the Tertiary and Vocational Education Commission of Sri Lanka, revitalizing the implementation of an ADB funded project on a national vocational qualification framework for Sri Lanka (b) Consultant to the University Grants Commission of Sri Lanka developing faculty quality ranking for the system (c) Analytic Director of a team of consultants at QRC Macro International in Bethesda, Maryland, USA, responsible for conducting and reporting on science resources for the US National Science Foundation and (d) Strategic Planning Specialist at the Ohio State University, USA, developing an academic quality scorecard for that university, and (e) Administrator of Research Support Programs at the Ohio Board of Regents, Ohio, USA. In her previous career as a university teacher and researcher in Chemistry she has served as a member of the faculty in the University of Sri Jayewardenapura and the University of Colombo.

Sujata holds a Ph.D. in chemistry from the University of British Columbia and a subsequent Master's in Public Administration from the Ohio State University of USA.

EDUCATION

- Master's in Public Administration, 1996, The Ohio State University, Columbus, OH, USA
- Ph.D. (Chemistry), 1985, University of British Columbia, Vancouver, B.C., Canada
- B.Sc., 1976, University of Sri Lanka, Peradeniya Campus, Kandy, Sri Lanka

EMPLOYMENT

2018- To date Senior Research Fellow
2012 - 2017 Team Leader, Human Capital Research Program, LIRNEasia
2006 - 2011 Knowledge Network Specialist, LIRNEasia; Principal investigator of the research grant agreement 104356-001 (2008-2010) with IDRC of Canada
2004 - 2005 Consultant, University Grants Commission of Sri Lanka; Principal investigator of the research grant agreement 101678-004 with IDRC of Canada
2003 - 2004 Director General, Tertiary and Vocational Education Commission (TVEC), Sri Lanka
2002-2003 Consultant, University Grants Commission of Sri Lanka; Principal investigator of research grant agreement award number 0328729 with the National Science Foundation of USA

- 2001 - 2002 Visiting Scholar, Centre for Science, Policy and Outcomes, 1 Thomas Circle, NW, Suite 1075, Washington, D.C. 20002, USA;
- 2000 - 2001 Analytic Director, QRC Division of ORC Macro International, Bethesda, MD, USA
- 1998 - 2000 Strategic Planning Specialist, Ohio State University, Columbus, OH, USA
- 1996 - 1998 Administrator for Research support Programs, Ohio Board of Regents, USA
- 1976 - 1996 University teacher and researcher in chemistry, Sri Lanka and USA

SELECTED CONSULTANCIES

- 2019 State Owned Enterprises Report for Advocata, Colombo, Sri Lanka
- 2018 Indicators of Readiness of School Leavers for the Workplace of the Future, International Development Research Center (IDRC) of Canada project number: 108000-001.
<https://lirneasia.net/2018/10/readiness-of-school-leavers-for-the-workplace-of-the-future-event-report/>
 ICT in Education in Sri Lanka. Beijing normal University and National Institute of Education Singapore. Research towards ICT in Education in Belt and Road Countries (pp. xx-yy). Beijing: Springer. Pending publication.
- 2008-18 Lecturer/Trainer, Annual three-day Policy Research Academy for Young Scholars in the Communication Policy Research in the Global South conference (or CPRsouth)
 Assessing ICT policy research capacity (ICT policy research knowledge mapping) in the global south for the CPRsouth conference (8 annual reports)
- 2017 Committee of Experts to make recommendations for improving the quality and standards of testing and evaluation in Sri Lanka, the Ministry of Education, Sri Lanka
 Developing and open demarcations Web portal for building trust and consensus in electoral delimitation processes, for IDRC through LIRNEasia
- 2016 Strengthening education planning policies for institutional and human capacity building on ICT for development (ICTD) in institution of higher learning, DA/LOA/2016-0002, for United Nations Economic and Social Cooperation for Asia and the Pacific (UNESCAP) through LIRNEAsia
 Developing a methodology to map actors involved in big data for development in the Global South For IDRC through LIRNEasia
- 2015 Indicators for evaluating student-centred outcome-based learning- for the Higher Education for the Twenty First Century (HETC) project of the World Bank.
 Systematic review of the literature on “Strategies for integrating ICT in the classroom” (continuation)
- 2014 An Evaluation of the capacity building for policy Reforms through regional networks for the International Development Research Centre of Canada through LIRNEasia
 Systematic review of the literature on “Strategies for integrating ICT in the classroom” - for DFID through PWC and LIRNEasia
- 2013 Series of 30+ features on Careers and Qualifications for Wijeya Newspapers for publication on Sunday Times and “අද” national newspapers (January –June)
- 2012 Governance of basic local public services - 3rd Global Report on Decentralization and Local Democracy (GOLD III) - for United Cities and Local Government Asia-Pacific
 Green Jobs Asia – Data collection and analysis on solid waste personnel in Sri Lanka for the International Labor Organization
- 2011 Mapping ICT policy research capacity in Africa, Research ICT Africa, Capetown, South Africa

- 2008-10 Knowledge to Innovation in Government Services: the case of solid waste services in Sri Lanka, Funded by the International Development Research Center (IDRC) of Canada, US\$ 425,000, Grant agreement 104356-001
- 2006-7 Linking Knowledge to Innovation: Role of Universities; Funded by IDRC and implemented through the Pathfinder, US\$ 10,000, Grant agreement 101678-010
- 2004-6 Promoting excellence in teaching and research through global connectedness. Funded by IDRC and implemented through the University Grants Commission, US\$ 44,000, Grant agreement 101678-004
- Best practices in North-South research collaborations: A case study of Sri Lanka. Funded by the U.S. National Science Foundation, Award Number=0328729, US\$ 50,000

POLICY PAPERS AND SCHOLARLY PUBLICATIONS

- 2020 Gamage, S.N. (2020). ICT in Education in Sri Lanka. In *ICT in Education in Belt and Road Countries* (pp. xx-yy). Beijing: Springer. Pending publication.
- 2018 Gamage, S. N, & Tanwar, T. (2018). Factors affecting the use of ICTs in the classroom by teachers: A systematic review of the literature. *Information Technologies & International Development*, 14 (Special Section). <http://itidjournal.org/index.php/itid/article/view/1487/592>
- 2017 Gamage, Sujata, Sri Lanka: An overview in *Education in South Asia and the Indian Ocean Islands*. Editor(s): Hema Letchamanan, Debotri Dha; Series Editor: Colin Brock. London: Bloomsbury Academic, . <http://www.bloomsbury.com/uk/education-in-south-asia-and-the-indian-ocean-islands-9781474244299/#sthash.47wAPJY4.dpuf>

Gamage SN, Tanwar T (2017) Strategies for training or supporting teachers to integrate technology into the classroom. *Education Rigorous Literature Review*. International Development Research Centre, Ottawa, Canada, and the Department for International Development, UK. [Report](#), Video

A holistic education approach is essential for keeping children in school for 13 years, *Economic Review*, April/June, Colombo: Peoples Bank

Reports on Planning processes, policies and initiatives in ICTD education at institutions of higher learning in Asia and the Pacific:

Cambodia Country Paper

http://www.unescap.org/sites/default/files/Report-Cambodia%20final_2.pdf

India Country Paper

<http://www.unescap.org/sites/default/files/Report-India-final.pdf>

Republic of Korea Country Paper

<http://www.unescap.org/sites/default/files/Report-RoK-final.pdf>

Sri Lanka Country Paper

<http://www.unescap.org/sites/default/files/Report-SriLanka%20final.pdf>

Thailand Country Paper

<http://www.unescap.org/sites/default/files/Report-Thailand-final.pdf>

- Sujata N. Gamage (2016 Dec 16). Accountability and Openness: Keys to higher education reforms in Sri Lanka. In Proceedings of the Special Session on the Present Status and the Way forward for Public Universities in Sri Lanka, Edited by Sunethra Weerakoon and Sirani M. Perera. International Industrial Mathematics Conference. Fingara Club, Rattanapitiya, Sri Lanka. Colombo: Vidya Publishers, , pp. 69-82.
- 2015 Gamage, Sujata (2015). Impact assessment of capacity building initiatives: Lessons from CPRsouth. Policy Brief commissioned by International Development Research Center., Canada
- Samarajiva, R., Gamage, S., Kapugama, N. (2015). "Research to Policy south: A mechanism to enhance and sustain contributions to policy from think tanks and university faculty," Proceedings of Conference on status and role of social sciences research in Asia – emerging challenges and policy lessons, Indian Council on Social Science Research.
- 2014 Inter-Organizational Communities of Practice for Improved Organizational Performance, http://papers.ssrn.com/sol3/papers.cfm?abstract_id=2443989
- 2013 Gamage, Sujata N. (2013). Evaluating for Equity in General Education. Fourth Biennial International Conference of the Sri Lanka Evaluation Society. Mount Lavinia, Sri Lanka, July 24-25.
- Gamage, Sujata N., Samarajiva, Rohan and Kapugama, Nilusha (2013, March). Organizing for Policy: A Social Network Analysis. 2013 EuroCPR, Brussels, March 21-22. <http://www.eurocpr.org/data/2013/Samarajiva.pdf>
- 2012 Gamage, Sujata N., Petersen, Il-Haam (2012, December). Merits of the Carnegie Classification Framework for Benchmarking the Performance of Universities in the South. *Journal of the World Universities Forum*, Volume 5, Issue 2, pp.73-88.
- Gamage, Sujata N., Samarajiva, Rohan and Kapugama, Nilusha (2012, September). Organizing for Policy Impact in Telecommunication: A Framework for Action. 2012 TPRC, Washington, D.C., September 21-22 <http://ssrn.com/abstract=2032319>
- Gamage, Sujata N (2012, July). Communities of Practice for Inter-organizational Knowledge Management: An Empirical Study, Knowledge Management International Conference (KMICe), Johor Bahru, Malaysia, July 1-4. <http://www.kmice.cms.net.my/ProcKMICe/KMICe2012/PDF/CR111.pdf>
- 2011 Knowledge Networks or Skills Development in Local Government: A Policy Brief (2011). LIRNEasia, Colombo, Sri Lanka http://lirneasia.net/wp-content/uploads/2009/06/Policybrief_Networks_E.pdf
- Linking Knowledge to Innovation in Government Services: The Case of Solid Waste Services in Local Government in Sri Lanka. Technical Report. Project # 104356-001, International

Development Research Center of Canada. http://lirneasia.net/wp-content/uploads/2009/06/TechnicalReport_K2I_2011Jul.pdf

2010 and before

Survey of Waste management at 5 Local Authorities Surrounding North Bolgoda Lake: A Policy Brief (2011). LIRNEasia, Colombo, Sri Lanka

http://lirneasia.net/wp-content/uploads/2009/06/K2I_Cleancity_Policybrief.pdf

Sujata Gamage and Samarajiva, R. (2008). Internet Presence as Knowledge Capacity: The Case of Research in Information and Communication Technology Infrastructure Reform. *Information Technologies & International Development*, North America, 4 1 03 2008.

<http://itidjournal.org/itid/article/view/304>

Sujata Gamage (2008). Right to Education is Meaningless without Accountability in the Public Education Sector. *Law and Society Trust Review (Sri Lanka)*. Volume 18 Issue 248 June

http://www.lawandsocietytrust.org/web/index.php?option=com_content&task=view&id=124&Itemid=143

Sri Lanka's Innovation System according to the 2008 "Building the Knowledge Economy" document of the world Bank.

<http://siteresources.worldbank.org/INTSRILANKA/Resources/Innovation.pdf>

Sujata N Gamage and OG Dayaratne Banda (2008). Education in Sri Lanka: An Economic Perspective. *Sanvada Policy Brief 08*. Pathfinder Foundation, Colombo, Sri Lanka

<http://sanvada.org/images/documents/sanvada%20policy%20brief%20on%20education.pdf>

Linking knowledge to innovation in economy and society: The role of universities in Asia. Proceedings of a seminar held in Taj Samura, Colombo on January 25, 2007. <https://idl-bnc.idrc.ca/dspace/handle/10625/44793>

Rohan Samarajiva and Sujata Gamage (2007). Bridging the Divide: Building Asia-Pacific. *Information Society*, Volume 23 , Issue 2 , March, Pages 109-117.

<http://portal.acm.org/citation.cfm?id=1392727&dl=GUIDE&coll=GUIDE>)

Quality through Global Connectivity: Strategies for Universities in Small States, Technical Report to the *Research on Knowledge Systems (RoKS)*, International Development Research Center, Canada, 2006.

<https://idl-bnc.idrc.ca/dspace/handle/123456789/30581>

Gamage, Sujata N. (2005) An Assessment of the Quality of Faculty in Humanities and Social Sciences in the Public University System in Sri Lanka. *Journal of the University Librarians Association of Sri Lanka (Vol 9)*, pp 1-11.

<http://www.sljol.info/index.php/JULA/article/viewFile/310/353>

Sujata Gamage and Rohan Samarajiva. Science and Technology Inputs for Information and Communication infrastructure Development in Sri Lanka, *Proceedings of the Biennial Conference on Science and Technology, National Science and Technology Council of Sri Lanka*, Beruwela, Sri Lanka, September 5-7, 2002.

A Profile of the Undergraduate population at the Ohio State University, an Analysis of the College Student Survey, *Resource Planning and Institutional Analysis*. Ohio State University. January 2000

Reshaping Graduate Education in Science and Engineering. *Association of Women in Science Magazine*. Volume 28, Number 4, Fall 1999.

University Research Centers: A Benchmarks and Best Practices Study, Report to the Senior Vice Provost, *Office of Academic Affairs, Ohio State University*, May 27, 1998.

Attrition of Freshmen at the Ohio State University: An Analysis of the 1997 Student Satisfaction Survey. *of Academic Affairs, Ohio State University*. 1997.

An Evaluation of the Ohio Board of Regents Action Fund Program: Implications for Research Program Management. *The Ohio State University, School of Public Policy and Management*, 1996.

Human Health Risk from Power Frequency Electromagnetic Fields. Report of the Environmental Priorities '95 Committee, *Public Health Department, Columbus, Ohio, USA*, 1995.

Research Presentations/Invited Lectures

- Organizing for policy Impact in Telecom/ICT. With Rohan Samarajiva and Nilusha Kapugma. Telecom Policy Research Conference, Washington, D.C , September 21-23, 2012
- Communities of Practice for Inter-organizational Knowledge Management,: An empirical Study.
- Knowledge Management International Conference and Exposition, Johor Bharu, Malaysia, July 2-14, 2012
- Asian Network for Economics of Learning, Innovation, and Competence Building Systems (ASIALICS). Hanoi, Vietnam, July 7-9, 2011
- A Framework for Assessing Municipal Solid Waste Management, Waste Safe, Khulna, Bangladesh, February 13-15, 2011
- Taking Stock of the Asian Higher Education Landscape, World Universities Forum, Hong Kong, January 13-17, 2011
- Sujata Gamage and Chammi Gunatilake. A study of the performance of different types of officials in Solid waste Management in selected provinces of Sri Lanka 66th Annual Scientific Sessions, Sri Lanka Association for Advancement of Science (SLAAS) SLAAS 6-10/ 12/2010 Colombo

- Sujata Gamage and Anusha Wickramaratne. Results of a Pilot Survey to Develop a Clean City Ranking for Sri Lanka. 66th Annual Scientific Sessions, Sri Lanka Association for Advancement of Science (SLAAS) SLAAS 6-10/ 12/2010 Colombo
- Merits of the Carnegie Classification System: A User-Driven Multi-Dimensional Framework for Higher Education, Global Network for Economics of Learning, Innovation, and Competence Building Systems (GlobeLics), Kuala Lumpur, November , 2010
- Merits of the Carnegie Classification System: A User-Driven Multi-Dimensional Framework for Higher Education, Council for Higher Education, Islamabad, Pakistan. April 27, 2010
- Lessons in Knowledge Management for Policy Makers in Developing Countries: The Case of Solid Waste Services in Sri Lanka. Innovation Symposium. WITS University, Johannesburg, South Africa. February 24-26, 2010
- Merits of the Carnegie Classification System: A User-Driven Multi-Dimensional Framework for Higher Education. Council for Higher Education, Pretoria, South Africa. February 23, 2010
- Panel on innovation systems (Glenda Kruss, Human Sciences Research Council, South Africa; Rasheed Sulaiman, Centre for Research on Innovation and Science Policy, India; and Sujata Gamage, LIRNEAsia, LIRNEAsia@5 Conference, Colombo, Sri Lanka. December 9-11, 2009.
- <http://lirneasia.net/projects/lirneasia-at-5/>
- Digital Content: Why K4D won't work without. Third International Conference of the University Librarians Association. Colombo, June 2007
- A Knowledge Network for Communication Policy Research in the Asia Pacific. CPRSouth1 Conference, Manila, Philippines, January 19-21, 2007. (<http://www.cprsouth.org/index.html/>)
- Ranking Higher Education Institutions in Developing Countries: A Feasibility Study from Sri Lanka. Proceedings of the Sixth Annual Conference of the South East Association of Institutional Researchers in Langkawi, Malaysia, September 4-6, 2006, p. 316-319.
- Framework for Assessing and Ranking the Quality of University Faculty. Proceedings of the Sixth Annual Conference of the South East Association of Institutional Researchers in Langkawi, Malaysia, September 4-6, 2006, p. 320-326
- A Labor Market Information System for Higher Education, A User Perspective, *Workshop for Deans in Science, Humanities and Social Sciences*, University Grants Commission, March 17, 2006, Colombo, Sri Lanka
- From Lecturers to Excellent Teachers: Preliminary Results in Evaluating Scholarly Capacity of Humanities and Social Science Lecturers in Sri Lankan Universities. 1st Annual Conference of the Sri Lanka Association for Improving Higher Education Effectiveness (SLAIHEE). 31st March 2005, University of Colombo

- Promoting Excellence in Teaching and Research through Connectivity to Global Knowledge Networks: Strategies for a Small State, Research on Knowledge Systems Workshop, IDRC, Ottawa, Canada, April 24-26, 2004
- Post-graduate Research and Norms of Scholarship. *University Grants Commission's Seminar on Postgraduate Research and National Development*, August 21, 2004, Colombo, Sri Lanka.
- From Provider to Facilitator: A New Role for Government in Tertiary Education, *Public Seminar Series-1, Sri Lanka Economics Association*, October 10, 2003, Colombo, Sri Lanka
- Technology Inputs to Information and communication Infrastructure Development in Developing Countries, International Conference on Science, Technology, and Innovation, Center for International Development, Harvard University, September 23-24, 2002.
- Global Knowledge Networks: Strategies for a Small State, *Research on Knowledge Systems Workshop*, IDRC, Ottawa, Canada, April 24-26, 2004
- Technical and Vocational Education: A Fresh Approach, *Marie Musaeus Higgins-Peter de Abrew Memorial Lecture*, Musaeus College, Colombo, Sri Lanka, August, 2003
- Technology Inputs to Information and communication Infrastructure Development in Developing Countries, *International Conference on Science, Technology, and Innovation*, Center for International Development, Harvard University, September 23-24, 2002.
- Using the US National Science Foundation Science and Engineering Resource Surveys for Institutional Analysis, Annual Meeting of the Association of American Universities Data Exchange, Annapolis, MD, April 3, 2001
- Using the National Science Foundation's Survey of Earned Doctorates for Institutional Research at the Academic Program Level. Annual meeting of the Association of American Universities Date Exchange, Madison, Wisconsin, MD, June 17, 2000
- Using the National Science Foundation's Survey of Earned Doctorates for Institutional Research at the Academic Program Level, *Association of Institutional Research Forum 2000*, Cincinnati, Ohio, May 21–24, 2000 (with Maia Bergman)
- Versatility of the Graduate Programs in the US. *Graduation Education in the New Millennium Symposium of the American Chemical Society National Meeting*, San Francisco, March 26, 2000
- Research Programs at the Ohio Board of Regents. Plenary Session Presenter, *Ohio Chapter of the Society for Research Administrators*, Columbus, Ohio, July 1997

Science Publications

- S.N. Gamage and B.R. James, Use of Dioxygen/Dihydrogen Mixtures for Oxidations Catalyzed by Rhodium Complexes. *Journal of the Chemical Society*, Chemical Communications, 1624–26 (1989).

- S.N. Gamage, B.R. James, S.J. Rettig, and J. Trotter. Synthesis and structural characterization of two triclinic modifications of diethylammonium trans-tetrachlorobis(di-methylsulfoxide-
- S)rhodium(III):an example of hydrogen-bond acceptor structural isomerism. *Canadian Journal of Chemistry*, 66, 1123-28 (1988).
- S.N. Gamage, R.H. Morris, S.J. Rettig, D.C. Thackray, I.S. Thorburn, and B.R. James. Formation of a trimethyldihydropermidinium cation from proton sponge [1,8- bis(dimethylamino)naphthalene] during base-promoted reactions of rhodium and ruthenium complexes. *Journal of Chemical Society. Chemical communications*: 894-95 (1987).
- S.N. Gamage, R.H. Morris, S.J. Rettig, and B.R. James. Formation of an h1-ylidic enamine complex of rhodium(III) during use of triethylamine for a base-promoted reaction. *Journal of Organometallic Chemistry*. 309(3): C59 (1986).

Memberships/Volunteer Work

- Member, Committee of Experts to review examinations and evaluation system and roles and functions of the Department of Examinations (2017 May onwards)
- Board Member, SL2COLLEGE (2011 – 2015)
- Member, HR & Education Sub-Committee, Ceylon Chamber of Commerce (2007-date)
- Coordinator, Sri Lanka Education Forum, www.educationforum.lk (2005-to date)
- American Association for the Advancement of Science (1999 – 2005)
- Association of Institutional Researchers (1997 – 2005)
- Association of Women in Science, USA (1997 – 2005)
- American Chemical Society (1988 – 2001)
- Environmental Priorities Committee (City of Columbus (1995-1996)
- Ohio Environmental Council, Columbus, Ohio (1990 – 1994)
- Ohio Citizen Action (1990 – 1994)
- Committee on Chemicals and Chemical products, Sri Lanka Bureau of Standards (1985 –1987)