

SREEJA NAIR

#02-11, Li Ka Shing Building
469B Bukit Timah Road
Singapore 259771
sreeja@nus.edu.sg

EDUCATION

- 2016 PhD Public Policy
National University of Singapore, Lee Kuan Yew School of Public Policy
Dissertation: *From piloting to policy: A comparative case study of risk management experiments in Indian Agriculture* (Supervisor: Prof. Michael P. Howlett)
- 2009 M.A. Climate and Society
Columbia University, Graduate School of Arts and Sciences
- 2005 M.Sc. Environmental Studies
TERI (The Energy and Resources Institute) University
- 2003 B.Sc. (Hons.), Biomedical Sciences
Delhi University, Acharya Narendra Dev College

EMPLOYMENT

- June 2021-present Assistant Professor
Lee Kuan Yew School of Public Policy, National University of Singapore
- Sep 2019- Jun 2021 Research Fellow
Lee Kuan Yew Centre for Innovative Cities, Singapore University of Technology and Design
- Aug 2017-Aug 2019 Postdoctoral Fellow
Nanyang Technological University, Joint appointment with Nanyang Environment and Water Research Institute and School of Social Sciences
- Mar 2010- Dec 2011 Associate Fellow
Earth Science and Climate Change Division, The Energy and Resources Institute
- Sep 2008-Aug 2009 Research Fellow
Department of Earth and Environmental Sciences, Columbia University
- Jul 2005-Aug 2008 Research Associate
Earth Science and Climate Change Division, The Energy and Resources Institute

RESEARCH AND TEACHING INTERESTS

Policy experimentation, Environmental policy design and governance, Climate Change Adaptation, Food and water security, Digital Disruption and Future of Work

PROFESSIONAL AFFILIATIONS

- 2021- present Associate Editor, Australian Journal of Public Administration

PUBLICATIONS

Books

- Nair, S.** 2021. Rethinking policy piloting: insights from Indian agriculture. Cambridge University Press.
- Nair, S.,** Varma, N. (eds.). 2022. Emerging Pedagogies for Public Policy Research and Practice in Asia. Palgrave-Macmillan.
- Ng, WJ, **Nair, S.,** Jinadasa, S., Valencia, E.. 2018. Saving Lakes: The Urban Socio-Cultural and Technological Perspectives. World Scientific Publishing. 160 pp.

Peer-reviewed articles

- El-Taliawi, O. G., **Nair, S.,** & Van der Wal, Z. (2021). Public policy schools in the global south: a mapping and analysis of the emerging landscape. *Policy Sciences*, 54(2), 371-395.
- Nair, S.** (2020) Designing Policy Pilots under Climate Uncertainty: A Conceptual Framework for Comparative Analysis, *Journal of Comparative Policy Analysis: Research and Practice*, 22:4, 344-359, DOI: 10.1080/13876988.2019.1695973
- Shivakoti, R. Howlett, M., Fernandez V. and **Nair, S.** (2019) Governing international regime complexes through multi-level governance mechanisms: lessons from water, forestry and migration policy. *International Journal of Water Resources Development*. DOI: 10.1080/07900627.2019.1662379
- Jensen O, **Nair S.,** 2019. Integrated Urban Water Management and Water Security: A Comparison of Singapore and Hong Kong. *Water*. 11(4):785.
- Nair, S.** and Howlett, M, 2017. Policy Myopia as a Source of Policy Failure: Adaptation and Policy Learning under Deep Uncertainty. *Policy and Politics*. Special Issue: Learning and Policy Failure. 45 (1), January 2017, 103-118(16).
- Wellstead, A., Howlett, M., **Nair, S.,** and Rayner, J., 2016. “Push” dynamics in policy experimentation: Downscaling climate change adaptation programs in Canada. *Climate Services*. Vol 4, December 2016, 52-60.
- Nair, S.** and Howlett, M., 2016. From robustness to resilience: avoiding policy traps in the long-term. *Sustainability Science*. Special Feature: Original Article Traps! Expanding Thinking on Persistent Maladaptive States in Pursuit of Resilience. November 2016, 11 (6), 909–917
- Nair, S.** and Howlett, M., 2016. Meaning and Power in the Design and Development of Policy Experiments. *Futures*. Special Issue: Dealing with long-term policy problems: Making sense of the interplay between meaning and power, 76, 67-74.
- Nair, S.** and Howlett, M., 2015. Scaling up of policy experiments and pilots: a qualitative comparative analysis and lessons for the water sector. *Water Resources Management*. 29 (14), 4945-4961.
- Nair, S.,** Wong, K. W., and Ling, C. M., 2014. Bangkok Flood Risk Management: Application of Foresight Methodology for Scenario and Policy Development. *Journal of Future Studies*. 19 (2), 87-112.
- Bhadwal, S., Groot, A., Balakrishnan, S., **Nair, S.,** Ghosh, S., Lingaraj, G. J., van Scheltinga, C. T., Bhave, A. and Siderius, C., 2013. Adaptation to changing water resource availability in Northern India with respect to Himalayan Glacier retreat and changing monsoons using participatory approaches. *Science of The Total Environment*, Volumes 468–469, S152-s161.
- Swanson, D., Barg, S., Tyler, S., Venema, H., Tomar, S., Bhadwal, S., **Nair, S.,** Roy, D. and Drexhage, J., 2010. Seven tools for creating adaptive policies. *Technological Forecasting and Social Change*, 77 (6), 924-939.
- Bhadwal, S. and **Nair, S.,** 2010. Adaptation to droughts: an assessment of the response and risk-reduction mechanisms at the community level. *Disaster and Development*. Special Issue: *Climate change and disasters*. 4 (1).

Book chapters

- Nair, S.** (2022). Policy Experiments and Pilots as Tools for Decision-Making. In The Routledge Handbook of Policy Tools (pp. 282-293). Routledge.

- Nair, S.**, El-Taliawi, O. G., & Van der Wal, Z. (2021). Public policy education in the non-Western world: changing context and content. In The Future of the Policy Sciences. Brik AB and Pal, S. (Eds.). 70-84. Edward Elgar Publishing.
- Nair, S.**, & Howlett, M. (2018). Policy Pilots for Climate Adaptation in Indian Agriculture: A Qualitative Comparative Analysis. In B. Turnheim, P. Kivimaa, & F. Berkhout (Eds.), Innovating Climate Governance: Moving Beyond Experiments (pp. 166-181). Cambridge: Cambridge University Press. doi:10.1017/9781108277679.012
- Nair, S.** and Howlett, M., (2017). ‘The Central Conundrums of Policy Formulation: Ill-Structured Problems and Uncertainty’ in Handbook of Policy Formulation. Michael Howlett and Ishani Mukherjee (Eds.). Cheltenham: Edward Elgar 2016.
- Nair, S.**, Vreugdenhil, H., 2015. ‘Policy Making: Pilot Projects as Predictive Methods’ In Encyclopedia of Public Administration and Public Policy, 3rd Ed.; Bearfield, D.; Dubnick, M., Eds.; Taylor & Francis: New York; Vol. 4, pp. 2623-2627.
- Nair, S.**, 2012. ‘Sea Level Rise’ In Climate Change and Disease Dynamics in India. TERI Press, New Delhi.
- Balakrishnan, S. and **Nair, S.** 2011. ‘Climate Change Impacts on Human Health and implications for progress on Millennium Development Goals’ in Tackling Climate Change and Energy Poverty: Road to 2015. A World Sustainable Development Forum publication.
- Nair, S.** 2011. ‘Role of multi-tiered governance for enhancing adaptive capacities to climate variability and change’ In Hexagon Series on Human & Environmental Security and Peace- Volume 5: Coping with environmental change, disasters & security- Threats, challenges, vulnerabilities & risks.
- Nair, S.**, Tanner, T. & Bhadwal, S., 2009. ‘Evaluation of adaptation to climate change and climate risk screening’ In Evaluating climate change and development, Rob D. Van den Berg and Osvaldo Feinstein (eds.). World Bank Series on Development Vol 8. Transaction Publishers, New Jersey.
- Nair, S.** and Roy, D, 2009. ‘Variation for adaptive policymaking’ In Creating adaptive policies: A guide for policymaking in an uncertain world. Swanson, D. and Bhadwal, S., (eds.). Sage Publications, New Delhi.
- Vivekanandan, J. and **Nair, S.**, 2009. ‘Climate change and water: Examining the interlinkages’ In Troubled Waters: Climate Change, Hydropolitics, and Transboundary Resources, Eds. Michel, D. and Pandya, A. The Henry L. Stimson Center, Washington D. C.
- Reports and Working papers*
- Nair, S.**, Lim, S. S., Chng, S., Trenerry, B. and Yang, W. Rethinking Technical and Vocational Education and Training for Digital Transformation: Implications for Asia. In The Next Digital Decade – Policy Approaches from Asia. Konrad Adenauer Stiftung and Digital Asia Hub, Germany. 2020.
- Nair S.** 2016. Addressing Environmental Degradation and Rural Poverty through Climate Change Adaptation: An evaluation of social learning in drought-affected districts of Southern India. CCAFS Working Paper no. 174. Copenhagen, Denmark: CGIAR Research Program on Climate Change, Agriculture and Food Security (CAAFS).
- Nair, S.**, Balakrishnan, S., Bhadwal, S., Ghosh, S., Lingaraj, G. J., Mishra, A., Mishra, A., Bhave, A., Groot, A., Siderius, C., Terwisscha van Scheltinga, C., Biemans, H., Moors, E. and Singh, T., 2012. Communicating modeled information for adaptation decision-making. Issue Brief. The Energy & Resources Institute and World Resources Institute.
- Editor. A framework for Climate Change Vulnerability Assessments. Project on Climate Change Adaptation in Rural Areas of India (CCA RAI). Published by Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, India.
- Nair, S.** 2010. Introduction. Climate Resilient and Sustainable Urban Development. Printed by The Energy and Resources Institute. Funded by UK-Department for International Development.
- Swanson, D.**, Nair, S., Tyler, S. and Roy, D. World Resources Report, 2010. Harnessing Current Government Practices to Plan for and Adapt to the Risks and Uncertainty Posed by Climate Change.

- El-Nino Tele-Connections in Africa, Latin America & Caribbean, & Asia Pacific: Overview of current socio-economics, and of enhanced odds of anomalous seasonal precipitation 2009. International Research Institute for Climate and Society, Columbia University, New York.
- Tomar, S. and **Nair, S.**, 2009. Understanding Adaptive Policy Mechanisms through Farm Level Community Case Study to Understand Weather Related Shocks and Stress in Meghalaya, India. Working paper.
- World Bank Report No. 43946-IN. Climate change impacts in drought and flood affected areas: Case studies in India. 2008. South Asia Region, The World Bank.
- Nair, S.**, 2008. Understanding Adaptive Policy Mechanisms through Power Subsidies for Agriculture in Andhra Pradesh, India. Working paper.
- Nair, S.**, Tomar, S. & Upadhyaya, P., 2008. Advancing development and adaptation- The state of resources. Research paper. High-Level India-Europe Seminar on Climate Change and Sustainable Development, Potsdam, 27- 29 May 2008.
- Nair, S.**, Nandi, S. and Madan, P., 2008. In deep waters: climate change and sustainable development. World Sustainable Development Forum Newsletter, Volume 1, Issue 1. TERI, New Delhi
- Tanner TM, **Nair S.**, Bhattacharjya S, Srivastava SK, Sarthi PP, Sehgal M and Kull D, 2007. ORCHID: Climate Risk Screening in DFID India. Detailed Research Report. Institute of Development Studies, UK.
- Thornton PK, Jones PG, Owiyo T, Kruska RL, Herrero M, Kristjanson P, Notenbaert A, Bekele N and Omolo A, With Contributions From Orindi V, Otiende B, Ochieng A, Bhadwal S, Anantram K, **Nair S**, Kumar V And Kelkar U (2006). Mapping Climate Vulnerability and Poverty In Africa. International Livestock Research Institute, Nairobi. Pp 171.

TEACHING

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

Instructor

- PP5409: Foundations in Public Policy (AY 2021/22, 2022/23)
- PP7602: Foundations of Public Policy (AY 2021, 2022/23)

Singapore University of Technology and Design

Instructor, M.Sc. Urban Science, Policy and Planning

- 02.562: Research Studio (Jan- May 2020)

Nanyang Technological University

Instructor, Public Policy and Global Affairs, School of Social Sciences

- HA 4024: Environmental Change and Policy Design (Jan- May 2018)
- HA 4023 Special Issues in Public Policy (Aug- Dec 2017)
- HA 4009: The Politics of Social Policy (Aug- Dec 2017)

National University of Singapore

Teaching Assistant, Masters (Public Policy)

- PPS 153: Urban Development Policy & Planning in Asia (Aug- Dec 2015)
- PP 5137: Public Management and Leadership, Masters (Sept-Dec 2012)

TERI School of Advanced Studies

Lecturer, M.Sc Climate Science and Policy

- Science and Policy of Climate Change (Sept 2007- May 2008)

SERVICE TO THE DISCIPLINE

- Review Editor, Politics of Technology and Sustainability (speciality section of Frontiers in Political Science)
- Reviewer for journals: Public Administration, Policy Sciences, Urban Planning, Policy and Society, Sustainability, Regulation and Governance, Water

- Member, International Comparative Policy Analysis Forum (ICPA-Forum)

SERVICE TO THE UNIVERSITY

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

- Co-Chair, Masters in Public Policy (2022-2024)
- PhD Placement Director (2022-2025)

STUDENT SUPERVISION

- Jan- May 2008: M.Sc. Dissertation supervisor. Ms. Nitasha Sharma. Assessing the needs of coastal communities in Sunderbans islands to strengthen adaptation to climate change. Department of Natural Resources. TERI School of Advanced Studies, New Delhi.
- Aug 2020- Ongoing: PhD Thesis Committee Member. Mr. Peng Ho Oh. Upskilling efforts amidst Digital Disruption. Humanities, Arts and Social Sciences. Singapore University of Technology and Design.

RESEARCH GRANTS AND PROJECTS

Principal Investigator

Duration	Title	Budget/ Funder
15 Feb 2022- 14 Feb 2026	Studying Processes of Policy Experimentation for Complex Environmental Policy Challenges	\$180,000. Start-up grant. NUS.
April 2011- April 2012	Identification of win-win adaptation options through adaptation metrics and integrated adaptation decision making frameworks	JPY 1,041,000. Institute for Global Environmental Strategies, Japan.
Jan- April 2012	Adapting to Climate Uncertainty in South Asia: What Information Can Help Decision-Makers?	US\$ 7000. World Resources Institute, USA
Aug- Dec 2011	Climate Development Research Review: an annual expert summary of research, policy and practice in the areas of climate and development	£ 70,668. Climate Development Knowledge Network, United Kingdom.
Aug 2010- Feb 2011	Preparation of the State Action Plan on Climate Change for Rajasthan	US \$ 68,750. German Technical Cooperation (GIZ)-India.
July 2010- July 2012	Executive Training Courses on Adaptive Policymaking for state-level policymakers in India	US \$ 30,000. International Development Research Centre, Canada.
Aug- Nov 2010	Development of a methodological framework for assessment of climate change vulnerability	US \$ 26,229. GIZ-India.
July 2009- July 2011	Policy framework for urban resilience: Asian Cities Climate Change Resilience Network	US \$ 75,000. Rockefeller Foundation, USA.
2008- 2009	Preparation of Rajasthan Climate Change Agenda	US \$ 16,085. Government of Rajasthan, India.

23- 30 Aug 2006	South-South collaborative study tour to ‘Explore technology options for Climate Change Mitigation and Adaptation in Maldives’	US \$ 26,081. Ministry of Environment, Energy and Water, Republic of Maldives.
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Co-Principal Investigator

2012- 2014	Policy Design Lab (http://policy-design.org/): An inventory of policy design tools for national/ sub-national levels	National University of Singapore
Jan- Dec 2010	Develop a human health vulnerability index	Basque Centre for Climate Change, Spain
Jan- Dec 2011	Climate change vulnerability assessment for the state of Rajasthan, India	GIZ, India
2009- 2012	HighNoon: adaptation to changing water resources availability in northern India with Himalayan glacier retreat and changing monsoon pattern	European Commission
2010-2011	Climate Change Adaptation in South Asia for the Asia-Pacific Adaptation Network	United Nations Environment Programme
2007-2010	Coastal vulnerability assessment and strategies for better preparedness towards impacts of climate change and sea level rise in the State of West Bengal	Government of West Bengal, India
Oct 2006- Oct 2007	Climate Risk Screening of Developmental Programmes in India	Department for International Development –India

Team Member

2011	Climate change adaptation: Blended Learning on Science and Policy of Climate Change	Institute for Global Environmental Strategies, World Bank Development Learning Centre
2010	Preparation of the National Mission on Sustainable Agriculture for India	Ministry of Agriculture, Government of India
2007-2010	Strengthening Information Sharing System to enhance the capacities of farming communities to cope with climate variability and change	British High Commission and Swedish Agency for Development Cooperation
July 2005- Sept 2009	Designing policies to adapt to a world of uncertainty: Adaptive policymaking for agriculture and water resources in India and Canada	International Development Research Centre, Canada
Sept 2008- Aug 2009	Fire Response in Central Kalimantan, Indonesia for an early warning system based on climate information to enable governments to respond to fire impacts under dry climatic conditions	Earth Institute, Columbia University

Jan- Aug 2009	El- Nino Tele-Connections in Africa, Latin America and Caribbean, and Asia Pacific to assess the enhanced odds of anomalous seasonal precipitation	Earth Institute, Columbia University
Jan- Aug 2009	From Reactive to Proactive Management of Urban Climate Risks in Asia: Exploring institutional challenges and opportunities for managing urban climate risks	Earth Institute, Columbia University
2008	Studying the impacts of Climate Change on diarrheal disease occurrence in India	World Health Organization
2008	Preparation of the National Action Plan on Climate Change for India	Ministry of Environment and Forests, Government of India
2006	Mapping climate vulnerability and poverty in Africa	Department for International Development, United Kingdom
Nov 2005- Nov 2007	Addressing vulnerability to climate variability and change through assessment of adaptation issues and options across drought- and flood-prone regions in India	The World Bank

FELLOWSHIPS

- Research Scholarship. Lee Kuan Yew School of Public Policy, National University of Singapore (2012-2016)
- Graduate Fellowship. Department of Earth and Environmental Studies, Columbia University (2008-2009)

SELECTED PRESENTATIONS

How do ad hoc groups learn: a study of COVID-19 pandemic responses. Conference on Policy Process Research, University of Colorado, Denver, 12-14 January 2023. (with Garg, A.)

Emerging Pedagogies for Policy Education: insights from Asia. India Public Policy Network Annual Conference, 13 December 2022. (with Varma, N.)

Emerging Pedagogies for Policy Education in a Post-Pandemic Era: Insights from Asia. Higher Education Campus Conference, NUS, 7-8 December 2022. (with Varma, N.)

Rethinking Policy Pilots: insights from Indian agriculture. Australian Political Studies Association, 2022 Annual Conference, Australian National University, Canberra. 25-28 September 2022.

Comparative analysis of policy pilots for climate change adaptation under uncertainty: a conceptual framework. 3rd Public Policy Network conference. 1 Feb 2019. Panel I: Policy Analytics and Experiments. Organized by Singapore Management University.

Integrating Socio-Political and Cultural Dimensions for Urban Lake Pollution Management: Does Context Enable or Limit Policy Design? 2nd Singapore Public Policy Network Conference. Organized by Lee Kuan Yew School of Public Policy, Singapore. 29 January 2018

Piloting in a federal governance structure: a case of Indian agriculture. Comparison of Policy Experiments: Practices in the Asia-Pacific Region. The 16th Annual JCPA and ICPA-Forum Workshop. Organized by School of Public Policy and Management, Tsinghua University, 30-31 March, 2018.

Adhocracies to Address Emerging Policy Challenges of the 21st Century. Public Management Research Conference. Organized by Lee Kuan Yew School of Public Policy, Singapore. 31 May-2 June 2018.

- From piloting to policy: A comparative case study of risk management experiments in Indian agriculture. Singapore Public Policy Conference. Organized by Nanyang Technological University. 26-27 August 2016, Singapore.
- From piloting to policy: A comparative case study of risk management experiments in Indian agriculture. INOGOV Beyond experiments: Understanding how climate governance innovations become embedded. Organized by Science Policy Research Unit, University of Sussex, Brighton. 25th – 27th April, 2016.
- Policy experimentation and the scaling up of policy pilots. X Annual International Conference on Public Policy and Management. Organized by Indian Institute of Management, Bangalore, 3-5 August 2015. (with Howlett, M.)
- Proportionate adaptation and policy experimentation under uncertainty. The Politics of Non-Proportionate Policy Response, European Consortium for Political Research workshop. Warsaw, Poland. 29 March- 2 April 2015
- Characterization of uncertainty and its relevance for policymaking. Workshop on Governing with Uncertainty: Surprise, Agility, Resilience & Robustness. Organized by Hong Kong Institute of Education, City University of Hong Kong and Lee Kuan Yew School of Public Policy, Hong Kong. 12-13 March 2015.
- Are adhocracies a necessary evil for bureaucracies? Public Management Research Conference. Organized by Seoul National University, Seoul. 29 June-1 July 2014.
- Dealing with the Likelihood of Failure Over the Long-Term: Adaptive Policy Design Under Uncertainty. Policy design and Governance Failures workshop. Organized by Lee Kuan Yew School of Public Policy. 20-21 February 2014. (with Howlett, M.)
- Use of fuzzy-set Qualitative Comparative Analysis to study scaling up of pilot projects. International Comparative Policy Analysis Forum. Validating methods for comparing public policy: Academia and Government in Dialogue. Organized by KU Leuven, Belgium, 27-30 November 2013. (with Heleen Vreugdenhil, Deltares)