# HARINI NAGENDRA

Director, Research Centre

Professor and Lead, Centre for Climate Change and Sustainability

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# **Education**

Dec. 1998 Ph.D., Centre for Ecological Sciences, Indian Institute of Science
 March 1995 M.S., Biological Sciences, Indian Institute of Science

July 1992 B.Sc., Bangalore University

# **Academic Appointments**

2020 – current	Director, Research Centre, Azim Premji University
2019 - current	Lead, Centre for Climate Change and Sustainability, Azim Premji University
2014 - current	Professor of Sustainability, Azim Premji University
2015 - current	External Affiliated Faculty, Ostrom Workshop, Indiana University
2009 - 2013	Department of Science and Technology Ramanujan Fellow, ATREE
2013	Hubert H. Humphrey Distinguished Visiting Professor, Department of
	Geography, Macalester College, St. Paul
2003 - 2008	Society in Science: The Branco Weiss Fellowship, Swiss Federal Institute of
	Technology (ETH), Zurich
2003 - 2008	Associate Member, Indian Academy of Sciences
2005	Guest of Rektor, Wissenschaftskolleg zu Berlin: Institute of Advanced Studies
2000 -14	Asia Research Coordinator, Center for the Study of Institutions, Population,
	and Environmental Change (CIPEC), Indiana University, Bloomington
1999 - 2000	Research Associate, Centre for Ecological Sciences, Indian Institute of
	Science
1998	Visiting Researcher, Department of Evolutionary Biology and Ecology University
	of California at San Diego
1994 - 1997	Research Scholar, Centre for Ecological Sciences Indian Institute of Science

# **Research interests**

Urban ecology, urban commons and sustainable cities Landscape ecology and pattern-process linkages Collective action and the commons Climate resilience, climate action and transformation Remote sensing and biodiversity assessments

# **International Science and Policy**

2023-current	Co-Editor in Chief, Global Environmental Change
2020-current	Advisory Council, European Institute of Innovation and Technology Climate-
	Knowledge Innovation Centre (EIT Climate-KIC)
2020-current	Advisory Board, World Resources Institute Ross Center for Sustainable Cities
2014-current	Scientific Committee, ICSU Programme on Ecosystem Change and Society (PECS)
2022-23	Advisory Board Member, UNDP Human Development Report 2022 and 2023
2022	US National Academies Committee, Operationalizing Sustainable Development
2022	Advisory Board Member, Future Earth Urban Knowledge Action Network
2019-2022	Steering Committee, Future Earth Urban Knowledge Action Network
2021-2022	Advisory Board, Earth Leadership Program, Future Earth, Stanford Woods
	Institute for the Environment, and University of Colorado Boulder
2019-2022	External Research Evaluation Committee Member, Research Institute for
	Humanity and Nature, Government of Japan.
2020	Editorial Board, Future Earth 10 New Insights for Climate Change
2016-19	Future Earth National Committee for India
2011-17	Scientific Steering Committee, Global Land Project (GLP)

2009-15	Capacity Building Committee, Asia Pacific Network for Global Environmental
	Change (APN)
2011-14	Scientific Committee, DIVERSITAS: International Programme of Biodiversity
	Science
2011-14	Lead Author, Intergovernmental Panel on Climate Change (IPCC) Annual Report
	5 – Working Group III
2012	Invited Expert, Intergovernmental Science-Policy Platform for Assessment of
	Biodiversity and Ecosystem Services (IPBES), Draft Conceptual Framework
2011	Coordinating Lead Author, International Science Workshop on Assessments for
	IPBES, UN University Tokyo.

### **Recent Keynotes**

- 1. Governing forests and cities in the Anthropocene the importance of polycentricity. World Interdisciplinary Network for Institutional Research (WINIR) 2023, Edinburgh (online), 7 September 2022.
- 2. Building Ecologically Smart Cities: Urban Biodiversity in the Anthropocene. World Biodiversity Forum, Davos (online), 30 June 2022.
- 3. Urban Sustainability: A Global South Perspective. The McGill Sustainability Systems Initiative Research Symposium, McGill University (online), 9 November 2020. https://www.youtube.com/watch?v=oFy\_gnJ4ih4&feature=youtu.be
- 4. A ~25 Year Journey of Commons Research: Ecology, Society, Norms and Action. Keynote address, International Association for the Study of the Commons (IASC) Early Career Network Meeting (online), 5 October 2020.
- Landscape ecology in a changing climate: Science, society, action. Opening plenary, International Association of Landscape Ecology 2019, Milan, 1 July 2019.
- Valuing nature's benefits in India's cities. Plenary panel: Natural Capital Approaches in India, 2019 Natural Capital Symposium, Stanford University (online), 18 March 2019.

2001

1999

1993

Indian Institute of Science

and Sciences, Bangalore

Awards and Recognition		
2023	Elected Fellow, The World Academy of Sciences, Trieste	
2022	New York Times 100 Notable Books of 2022, for The Bangalore Detectives Club	
2022	Elected Fellow, Indian National Science Academy	
2021	Green Lit Fest 2021 best Fiction/Non-Fiction book list, for <i>Cities and Canopies</i> , with Seema Mundoli	
2021	PublishingNext Printed Book of the Year (English), for <i>Cities and Canopies</i> , with Seema Mundoli	
2019	Best paper award, Chinese Society in Industrial Ecology, for 'The Urban South and the Predicament of Global Sustainability', with co-authors X. Bai, E. Brondizio and S. Lwasa	
2017	Clarivate Web of Science India Research Excellence Citation Award 2017	
2014	Best paper award, Computers and Geosciences, 'Uncertainty in ecosystem mapping by remote sensing', with lead author Duccio Rocchini and 15 co-authors	
2013	Elinor Ostrom Senior Scholar Award for Collective Governance of the Commons	
2009	Ramanujan Fellowship, Department of Science and Technology, Government of India	
2007	Cozzarelli Prize for Proceedings of the National Academy of Sciences paper, "Insights or Linking Forests, Trees and People from the Air, on the Ground, and in the Lab", coauthored with Elinor Ostrom	
2006	Distinguished alumnus, St. Joseph's College of Arts and Sciences, Bangalore	
2003	Society in Science: Branco Weiss research fellow at the Swiss Federal Institute of Technology, for innovative interdisciplinary research at society-science interfaces	
2003	Invited associate member, Indian Academy of Sciences	
2002	START ("global change SysTem for Analysis, Research and Training") Young Scientist Awards for outstanding research paper on global environmental change	
2001	Indian National Science Academy (INSA) Young Scientist Medal	

Harini Nagendra

Indian National Science Academy (INSA) Professor LSS Kumar Memorial Award

Shamrao Kaikini award for best doctoral thesis in Biological and Chemical Sciences,

M.V. Jaganath Memorial Prize, BSc. University Examination, St. Joseph's College of Arts

### **Publications**

#### Books - Fiction

- 1. <u>H. Nagendra</u> (2024). A Nest of Vipers: A Bangalore Detectives Club Mystery. Little, Brown (UK/World); Pegasus Books (USA); Hachette (India), May 2024.
- 2. <u>H. Nagendra</u> (2023). Murder Under a Red Moon: A Bangalore Detectives Club Mystery. Little, Brown (UK/World); Pegasus Books (USA); Hachette (India), March 2023.
- 3. <u>H. Nagendra (</u>2022). The Bangalore Detectives Club. Little, Brown (UK/World); Pegasus Books (USA); Hachette (India), May 2022.

#### Books - Non-Fiction

- 1. <u>H. Nagendra</u> and S. Mundoli (2023). Blue Waters: Connecting the Drops in Indian Cities. Penguin Random House India.
- 2. <u>H. Nagendra</u> and S. Mundoli (2021). So Many Leaves! Pratham Books, Level 3 Reader for Children (in English, translated to Bahasa Indonesia, Hindi, Italian, Kannada, Marathi, Odia, Tamil, Urdu). <a href="https://storyweaver.org.in/stories/259479-so-many-leaves">https://storyweaver.org.in/stories/259479-so-many-leaves</a>.
- 3. <u>H. Nagendra</u> and S. Mundoli (2019). Cities and Canopies: Trees of Indian Cities. Penguin Random House India.
- 4. <u>H. Nagendra</u> (2016). Nature in the City: Bengaluru in the Past, Present, and Future. Oxford University Press India

#### Edited Books

- 1. I. Douglas, P M L Anderson, D. Goode, M.C. Houck, D. Maddox, <u>H. Nagendra</u> and P. Y. Tan, eds (2021). The Routledge Handbook of Urban Ecology, 2nd Edition. Routledge.
- 2. <u>H. Nagendra</u> and J. Southworth, eds (2010). Reforesting Landscapes: Pattern and Process. Springer Landscape Series, The Netherlands.

#### **Iournal Articles**

- 1. S. Basu, H. Nagendra, P. Verburg and T. Pleininger (2024). Perceptions of ecosystem services and knowledge of Sustainable Development Goals around community and private wetlands users in a rapidly growing city. *Landscape and Urban Planning*, forthcoming.
- 2. K. Anujan, N. Velho, G. Kuriakose, P.J. Ebin, V. Pandi, and H. Nagendra (2024). Beyond the metropolis: Street tree communities and resident perceptions on ecosystem services in small urban centers in India. *Journal of Urban Ecology*, forthcoming.
- 3. S. Agarwal, P. Rao and <u>H. Nagendra</u> (2023). Fifteen years of fragmentation and land cover change in India's ten largest cities a Google Earth Engine analysis. *Cities and the Environment*, https://doi.org/0.15365/cate.2023.160202.
- 4. S. Mundoli, A. Sanfui and <u>H. Nagendra</u> (2023). Pestilential or productive? Tracking two centuries of environmental change and current perceptions about ecosystem services of the east Kolkata wetlands. *Urbanisation*, <a href="https://doi.org/10.1177/24557471231202389">https://doi.org/10.1177/24557471231202389</a>.
- 5. N.V. Rao, V. Bhaskaran and <u>H. Nagendra</u> (2023). Can green tribunals help to resist neo-liberalism in environmental governance The case of India. *Land Use Policy https://doi.org/10.1016/j.landusepol.2023.106739.*
- 6. B. Deb, R. Murali and <u>H. Nagendra</u> (2023). Powerful but short-lived: pop bands as influencers of climate discussions on twitter. *Environmental Research Communications*, <a href="https://doi.org/10.1088/2515-7620/acba6d">https://doi.org/10.1088/2515-7620/acba6d</a>.
- 7. P. Thapa, M. Torralba, D. Bhaskar, <u>H. Nagendra</u> and T. Plieninger (2023). Green in grey: ecosystem services and disservices perceptions from small-scale green infrastructure along a rural-urban gradient in Bengaluru, India. *Ecosystems and People*, forthcoming.
- 8. A. Sen and <u>H. Nagendra</u> (2022). Songs of the lake: understanding situated cultural expressions on nature through dwindling folk-songs and mythologies in Bangalore. *South Asia: Journal of Asian Studies*, forthcoming.
- 9. P. Choksi, A. Agrawal, I. Bialy, R. Chaturvedi, K. F. Davis, S. Dhyani, F. Fleischman, J. Lechner, <u>H. Nagendra</u>, V. Srininvasan and R. DeFries (2023). Combining socioeconomic and biophysical data to identify people-centric restoration opportunities. *npj Biodiversity* 2:7, <a href="https://doi.org/10.1038/s44185-023-00012-8">https://doi.org/10.1038/s44185-023-00012-8</a>.

- 10. V. Bhaskar, K. Kar Gupta and <u>H. Nagendra</u> (2023). Good luck or bad omen: attitudes towards slender loris in the city of Bengaluru, India. *Urbanisation*, <a href="https://doi.org/10.1177/24557471231160599">https://doi.org/10.1177/24557471231160599</a>.
- 11. A. Sen and <u>H. Nagendra</u> (2022). Rethinking inclusivity and justice agendas in restoration of urban ecological commons: a case study on Bangalore lakes. *Lakes & Reservoirs: Science, Policy and Management for Sustainable Use,* <a href="https://doi.org/10.1111/lre.12408">https://doi.org/10.1111/lre.12408</a>.
- 12. H. Unnikrishnan, M.K. Gerullis, M.E. Cox and <u>H. Nagendra</u> (2022). Unpacking dynamics of diverse nested resource systems through a diagnostic approach. *Sustainability Science*, 18: 153-180, <a href="https://doi.org/10.1007/s11625-022-01268-y">https://doi.org/10.1007/s11625-022-01268-y</a>.
- 13. A. Kamdar, H. Baishya, <u>H. Nagendra</u>, J. Ratnam, D. Smith and N. Sekar (2022). Humanelephant conflict mitigation as a public good: what determines fence maintenance? *Ecology and Society*, 27: 24, <a href="https://doi.org/10.5751/ES-13271-270324">https://doi.org/10.5751/ES-13271-270324</a>.
- 14. R. Murali, Z. Jacob, S. Mundoli and <u>H. Nagendra</u> (2022). Climate change: The missing discourse in the Indian Parliament. *Environmental Research: Climate* 1: 015006, <a href="https://doi.org/10.1088/2752-5295/ac7d67">https://doi.org/10.1088/2752-5295/ac7d67</a>.
- 15. R. Murali, A. Bijoor, T. Thinley, K. Gurmet, K. Chinith, R. Togbe, T. Thuktan, K. Suryawanshi, <u>H. Nagendra</u> and C. Mishra (2022). Indigenous governance structures for maintaining an ecosystem service in an agro-pastoral community in the Indian Trans Himalaya. *Ecosystems and People*, 18: 303-314, <a href="https://doi.org/10.1080/26395916.2022.2067241">https://doi.org/10.1080/26395916.2022.2067241</a>.
- 16. T. Plieninger, P. Thapa, D. Bhaskar, <u>H. Nagendra</u>, M. Torralba and B.M. Zoderer (2022). Disentangling ecosystem services perceptions from blue infrastructure around a rapidly expanding megacity. *Landscape and Urban Planning* 222:104399, <a href="https://doi.org/10.1016/j.landurbplan.2022.104399">https://doi.org/10.1016/j.landurbplan.2022.104399</a>.
- 17. J. Urpelainen, S. Baquie, S. Khanwilkar, C. Galletti, N. Velho, P. Mondal, <u>H. Nagendra</u> and R. DeFries (2022). Migration, assets, and forest degradation in a tropical deciduous forest of South Asia. *Ecological Economics*, <a href="https://doi.org/10.1016/j.ecolecon.2020.106887">https://doi.org/10.1016/j.ecolecon.2020.106887</a>.
- 18. H. Unnikrishnan and <u>H. Nagendra</u> (2021). Building climate resilient cities in the global South: assessing city adaptation plans in India. *The Round Table* 110: 575-586.
- 19. R. Jambhekar, K. Suryawanshi and <u>H. Nagendra</u> (2021). Relationship between lake area and distance from the city center on lake dependent resident and migratory birds in urban Bangalore, a tropical mega-city in Southern India. *Journal of Urban Ecology*, <a href="https://doi.org/10.1093/jue/juab028">https://doi.org/10.1093/jue/juab028</a>.
- 20. R. Murali, A. Kuwar and <u>H. Nagendra</u> (2021). Who's responsible for climate change? Untangling threads of media discussions in India, Nigeria, Australia and the USA. *Climatic Change*, <a href="https://doi.org/10.1007/s10584-021-03031-1">https://doi.org/10.1007/s10584-021-03031-1</a>.
- 21. E.S. Brondizio, M.C. Lemos, D. Guan, N. Jennings, C. Mbow, <u>H. Nagendra</u> and P. Tschakert (2021). Global Environmental Change: 30 years of interdisciplinary research on the human and policy dimensions of environmental change. Global Environmental Change, <a href="https://doi.org/10.1016/j.gloenvcha.2021.102416">https://doi.org/10.1016/j.gloenvcha.2021.102416</a>.
- 22. M. Rangarajan, <u>H. Nagendra</u> and M. Sharma (2021). The problem: Future environmentalisms, a symposium on contested and emerging forms of environmental concern. *Seminar India* 744: 1-4.
- 23. S. Tambe, L. French, C. Wyborn, L. Scarlett, R. DeFries, <u>H. Nagendra</u>, H. Kulkarni, P. Srivastava, N.K. Agarwal, B.M.S. Rathore and G. Kinhal (2021). India's environmental policy standoff: reimagining the stakeholder engagement spaces. *International Forestry Review* 23: 1.
- 24. M. Egerer, D. Haase, T. McPhearson, N. Frantzeskaki, E. Andersson, <u>H. Nagendra</u> and A. Ossola (2021). Urban change as an untapped opportunity for climate adaptation. *npj Nature Sustainability*, <a href="https://doi.org/10.1038/s42949-021-00024-v">https://doi.org/10.1038/s42949-021-00024-v</a>.
- 25. B. B. Lin, A. Ossola, M. Alberti, E. Andersson, X. Bai, C. Dobbs, T. Elmqvist, K.L. Evans, N. Frantzeskaki, R. A. Fuller, K. J. Gaston, D. Haase, C.Y. Jim, C. Konijnendijk, <u>H. Nagendra</u>, J. Niemela, T. McPhearson, W. R Moomaw, S. Parnell, D. Pataki, W. J. Ripple, P. Y. Tan (2021). Integrating solutions to adapt cities for climate change. *The Lancet Planetary Health*, forthcoming.
- 26. P. Meyfroidt, A. de Bremond, C. Ryan, E. Archer, R. Aspinall, A. Chhabra, G. Camara, E. Corbera, R. DeFries, S. Díaz, J. Dong, E.C. Ellis, K. Erb, J. A. Fisher, R. Garrett, N. E. Golubiewski, R. H. Grau, J. M. Grove, H. Haberl, A. Heinimann, P. Hostert, E. Jobbágy, S. Kerr, T. Kuemmerle, E.F. Lambin, S. Lavorel, S. Lele, O. Mertz, P. Messerli, G. Metternicht,

- D.K. Munroe, <u>H. Nagendra</u>, J. Ø. Nielsen, D. S. Ojima, D.C. Parker, U. Pascual, J. R. Porter, N. Ramankutty, A. Reenberg, R. Roy Chowdhury, K. C. Seto, V. Seufert, H. Shibata, A. Thomson, B. L. Turner, J. Urabe, T. Veldkamp, P. Verburg, G. Zeleke and E. K. H. J. zu Ermgassen (2021). Ten facts about land systems for sustainability. Proceedings of the US National Academy of Sciences, forthcoming.
- 27. M. Root-Bernstein, A. Hagerty, J. Liu, L. Mani, <u>H. Nagendra</u> and C. W. Thompson (2021). Six novel interdisciplinary resilience principles emerging from interdisciplinary exchange around post-Covid-19 centers and peripheries. *Biodiversity*, <a href="https://doi.org/10.1080/14888386.2021.2008271">https://doi.org/10.1080/14888386.2021.2008271</a>.
- 28. M. Elias, M. Kandel, S. Mansourian, R. Meinzen-Dick, M. Crossland, D. Joshi, J. Kariuki, L.C Lee, P. McElwee, A. Sen, E. Sigman, R. Singh, E.M Adamczyk, T. Addoah, G. Agaba, R. S Alare, W. Anderson, I. Arulingam, S. K. V. Bellis, R. Birner, S. De Silva, M. Dubois, M. Duraisami, M. Featherstone, B. Gallant, A. Hakhu, R. Irvine, E. Kiura, C. Magaju, C. McDougall, G. D. McNeill, H. Nagendra, T. H. Nghi, D. K Okamoto, A. M. P. Valencia, T. Pagella, O. Pontier, M. Post, G. W Saunders, K. Schreckenberg, K. Shelar, F. Sinclair, R. S. Gautam, N. B. Spindel, H. Unnikrishnan, G. N. Wilson and L. Winowiecki (2021). Ten people-centered rules for socially sustainable ecosystem restoration. *Restoration Ecology*, https://doi.org/10.1111/rec.13574.
- 29. <u>H. Nagendra</u>, P. Mukhopadhyay and R. Ghate (2021). Celebrating Jodha: and revisiting the commons. *INSEE Journal of Ecological Economics*, 1: 59-69, https://doi.org/10.37773/ees.v4i1.396.
- 30. P. Choksi, D. Singh, J. Singh, P. Mondal, H. Nagendra, J. Urpelainen, R. DeFries (2021). Sensitivity of seasonal migration to climatic variability in central India. *Environmental Research Letters*, forthcoming.
- 31. R. DeFries, M. Agarwala, S. Baquie, P. Choksi, S. Khanwilkar, P. Mondal, <u>H. Nagendra</u>, J. Uperlainen (2021). Improved household living standards can restore dry tropical forests. *Biotropica*, 54: 1480-1490.
- 32. A. Sen, H. Unnikrishnan and <u>H. Nagendra</u> (2021). Restoration of urban water commons: navigating social-ecological fault lines and inequities. *Ecological Restoration* 39: 120-129.
- 33. S. Patankar, R. Jambhekar, K. Suryawanshi and <u>H. Nagendra</u> (2021). Which traits influence bird survival in the city? A review. *LAND* 10: 92, DOI: 10.3390/land10020092
- 34. S. Paul, K.G. Saxena, <u>H. Nagendra</u> and N. Lele (2021). Tracing land use and land cover change in peri-urban Delhi, India over 1973-2017. *Environmental Monitoring and Assessment*, 193: 52, DOI: 10.1007/s10661-020-08841-x.
- 35. S. Basu and <u>H. Nagendra</u> (2021). Perceptions of park visitors on access to urban parks and benefits of green spaces. *Urban Forestry and Urban Greening*, DOI: 10.1016/j.ufug.2020.126959.
- 36. D. Somesh, R. Rao, R. Murali and <u>H. Nagendra</u> (2021). Patterns of urban foraging in Bengaluru city. *Urban Forestry and Urban Greening*, DOI: 10.1016/j.ufug.2020.126940.
- 37. X. Bai, <u>H. Nagendra</u>, P. Shi and H. Liu (2020). Cities: build networks and share plans to emerge stronger from COVID-19. *Nature* 584: 517-520.
- 38. A. Sen and <u>H. Nagendra</u> (2020). Local community engagement, environmental placemaking and stewardship by migrants: a case study of lake conservation in Bengaluru, India. *Landscape and Urban Planning* 204: DOI: 10.1080/1747423X.2020.1720841.
- 39. A. Sen and <u>H. Nagendra</u> (2020). The differentiated impacts of urbanization on lake communities in Bengaluru, India. *International Journal of Urban Sustainable Development*, DOI: 10.1080/19463138.2020.1770260.
- 40. H. Nagendra (2020). Ecologically smart cities. *One Earth Voices* 2: 117.
- 41. P. Balvanera, S. Jacobs, <u>H. Nagendra</u>, P. O'Farrell, P. Bridgewater, E. Crouzat, N. Dendoncker, S. Goodwin, K.M. Gustafsson, A.N. Kadykalo, C.B. Krug, F.A.M. van Matuk, R. Pandit, J.E. Sala, M. Schröter, and C.-L. Washbourne (2020). The science-policy interface on ecosystems and people: challenges and opportunities. *Ecosystems and People* 16: DOI: 10.1080/26395916.2020.1819426.
- 42. D. Rocchini, N. Salvatori, C. Beierkuhnlein, A. Chiarucci, F. de Boissieu, Michael Förster, C.X. Garzon-Lopez, T.W. Gillespie, H.C. Hauffe, K.S. He, D. Kleijn, B. Kleinschmit, J. Lenoir, M. Malavasi, V. Moudrý, <u>H. Nagendra</u>, D. Payne, P. Šímová, M. Torresani, M. Wegmann and J.-B. Féret (2020). From local spectral species to global spectral communities: a

- benchmark for ecosystem diversity estimate by remote sensing. *Ecological Informatics*, <a href="https://doi.org/10.1016/j.ecoinf.2020.101195">https://doi.org/10.1016/j.ecoinf.2020.101195</a>.
- 43. N.V. Rao and <u>H. Nagendra</u> (2020). Epidemics and climate change in India. *Current Science* 119: 1919-1926.
- 44. A. Sen, H. Unnikrishnan and <u>H. Nagendra</u> (2020). Imperilled Waterscapes: The Social-Ecological Transformation of Lakes in Bengaluru. *Ecology, Economy and Development: The INSEE Journal* 3: 125-134.
- 45. R. DeFries, M. Agarwala, S. Baquie, P. Choksi, N. Dogra, Preetha G.S., S. Khanwilkar, P. Mondal, <u>H. Nagendra</u> and J. Urpelainen (2020). Post-lockdown spread of COVID-19 from cities to vulnerable forest-fringe villages in central India. *Current Science* 119: 52-58.
- S. Basu and <u>H. Nagendra</u> (2020). The street as workspace: assessing street vendors' rights to trees in Hyderabad, India. *Landscape and Urban Planning*, DOI: 10.1080/1747423X.2020.1720841
- 47. A. Sen and <u>H. Nagendra</u> (2020). The role of environmental placemaking in shaping contemporary environmentalism and understanding land change. *Journal of Land Use Science*, DOI 10.1080/1747423X.2020.1720841.
- 48. S. Agarwal and <u>H. Nagendra</u> (2020). Classification of Indian cities using Google Earth Engine. *Journal of Land Use Science*, DOI 10.1080/1747423X.2020.1720842
- 49. H. Unnikrishnan, B. Manjunatha, <u>H. Nagendra</u> and V. Castán Broto (2020). Water governance and the colonial urban project: the Dharmambudhi lake in Bengaluru, India. *Urban Geography*, DOI 10.1080/02723638.2019.1709756.
- 50. A.V. Norström, C. Cvitanovic, M.F. Löf, S. West, C. Wyborn, P. Balvanera, A.T. Bednarek, E.M. Bennett, R. Biggs, A. de Bremond, B.M. Campbell, J.G. Canadell, S.R. Carpenter, C. Folke, E.A. Fulton, O. Gaffney, S. Gelcich, J.-B. Jouffray, M. Leach, M. LeTissier, B. Martín-López, E. Louder, M.-F. Loutre, A.M. Meadow, H. Nagendra, D. Payne, G.D. Peterson, B. Reyers, R. Scholes, C.I. Speranza, M. Spierenburg, M. Stafford-Smith, M. Tengö, S. van der Hel, I. van Putten, H. Österblom (2020). Principles for knowledge co-production in sustainability research. *Nature Sustainability*, DOI 10.1038/s41893-019-0448-2.
- 51. <u>H. Nagendra</u> and S. Mundoli (2019). Communicating environmental science to the public. Current Science 117(1): 7-8.
- 52. A. Sen and <u>H. Nagendra</u> (2019). Mumbai's Blinkered Vision of Development: Sacrificing Ecology for Infrastructure. Economic and Political Weekly, Volume LIV (9): 20-23.
- 53. R. Murali, K. Suryawanshi, S. Redpath, <u>H. Nagendra</u> and C. Mishra (2019). Changing use of ecosystem services along a rural-urban continuum in the Indian Trans-Himalayas. *Ecosystem Services* 40: 101030.
- 54. A. J. Kurien, S. Lele and <u>H. Nagendra</u> (2019). Farms or Forests? Understanding and mapping shifting cultivation using the case study of West Garo Hills, India. *LAND* 8(9), 133.
- 55. S. Swamy, S. Devy and <u>H. Nagendra</u> (2019). Building biodiversity in neighbourhood parks in Bangalore city, India: Ordinary yet essential. *PLoS ONE* 14(5): e0215525.
- 56. <u>H. Nagendra</u> and H. Unnikrishnan (2019). The lake that became a bus terminus. *Environment & Society Portal, Arcadia* Spring 2019: 2.
- 57. <u>H. Nagendra</u> (2018). The global south is rich in sustainability lessons. Nature 557: 485-488.
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- 146. Biodiversity and the city. The Hindu Survey of the Environment 2010.
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- 152. Book review: Deforesting the Earth: From Prehistory to Global Crisis, M. Williams. Conservation and Society 6(3), 274-276, 2008.
- 153. Book review: Democratizing Nature, A. Chhatre and V. Saberwal. The Book Review January 2008, pp 66.Role of monitoring in institutional performance. With R. Ghate, Current Conservation 1, July 2007, pp 15.
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- 156. Book review: Working Forests in the Neotropics: Conservation through Sustainable Management? Environmental Conservation 33: 83, 2006.
- 157. Book review: The Economics of Land Use, in The International Library of Environmental Economics and Policy, ed. Peter J. Parks & Ian W. Hardie. Landscape Research 30(4): 559-571, 2005.
- 158. More people, more trees? Examining community forestry in Nepal's Terai. With Arun Agrawal, IHDP UPDATE: Newsletter of the International Human Dimensions Programme on Global Environmental Change. 01/04: 13. 2004.
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- 161. Book review: Bridging Human and Ecological Landscapes: Participatory Research and Sustainable Development in an Andean Agricultural Frontier, ed. R. E. Rhoades. Landscape Ecology 18(4): 445-446, 2003.
- 162. Book review: Late Night Thoughts on Listening to Mahler's Ninth Symphony, and The Youngest Science, by Lewis Thomas. Resonance: Journal of Science Education, 8(9), 90-91, 2003.
- 163. Book review: Digital Remote Sensing, by Prithvish Nag and M. Kudrat. Current Science, 79(6), pp. 903, 2000.
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- 167. Biodiversity in the Western Ghats. GIS@development: South Asia's first GIS/GPS bimonthly, 3(5) September/October 1999, 36, 41.
- 168. Re-discovering Nain Singh. Current Science 77(5), 716-717.
- 169. Book review: Deep Vegetarianism by Michael Allen Fox. Electronic Green Journal [online] URL: http://egj.lib.uidaho.edu/egj11/nagendra1.html, 1999.
- 170. Web site review: Game theory web site by Ken Prestwich. Resonance: Journal of Science Education, 4(8), 91-93, 1999.
- 171. Mapmakers: Techniques of cartography. Resonance: Journal of Science Education, 4(8), 8-15, 1999.
- 172. Mapmakers: Going places! Resonance: Journal of Science Education, 4(6), 8-14, 1999.
- 173. Mapmakers: The province of philosophers. Resonance: Journal of Science Education, 4(4), 6-11, 1999.

# **Conference Keynotes**

- 1. Building Ecologically Smart Cities: Urban Biodiversity in the Anthropocene. World Biodiversity Forum, Dayos/online, 30 June 2022.
- 2. India's Cities in 2047: Climate-Smart, or Ecologically Foolish? Environment in India 2047, Canada India Research Centre for Learning and Engagement, University of Guelph, Guelph/online, 8 June 2022.
- 3. Nature in the City through Environmental Placemaking. Keynote Lecture, The City and the Wild, Collegium Helveticum, Zurich/online, 12 April 2022.
- 4. Beyond Dystopias: Can fiction help shape the urban imaginary for a better future? Plenary Dialogue Panel, The Nature of Cities Festival 2022, with Annalee Newitz, Cadwell Turnbull, Jeff Vandermeer, Madhusudan Katti and Mitchell Pavao-Zuckerman, online, 29 March 2022.
- 5. Nature Based Solutions/Green-Blue Infrastructures and how that may benefit or not sustainable urban development. Plenary Panel with David Simon and Johana Alkan, The Nature of Cities Virtual Festival/online, 26 February 2021.
- Urban Commons for Inclusive Cities. The Nature of Cities Virtual Festival/online, 24
  February 2021.
- 8. Urban Sustainability: A Global South Perspective. The McGill Sustainability Systems Initiative Research Symposium, McGill University/online, 9 November 2020. <a href="https://www.voutube.com/watch?v=oFv\_gn]4ih4&feature=voutu.be">https://www.voutube.com/watch?v=oFv\_gn]4ih4&feature=voutu.be</a>
- A ~25 Year Journey of Commons Research: Ecology, Society, Norms and Action. Keynote address, International Association for the Study of the Commons (IASC) Early Career Network Meeting/online, 5 October 2020.
- 10. Thinking ecologically about development: A Global South perspective. Plenary panel on Diminishing Resources and Environmental Sustainability, Global Young Academy econference/online, 1 July 2020.
- 11. Landscape ecology in a changing climate: Science, society, action. Opening plenary, *International Association of Landscape Ecology 2019*, Milan, 1 July 2019.
- Valuing nature's benefits in India's cities. Plenary panel: Natural Capital Approaches in India, 2019 Natural Capital Symposium, Stanford University/online, 18 March 2019 (via video).
- 13. Nature in the City: Changes in Bangalore through Time and Space. Keynote lecture at *Indo-German Conference on Rural-Urban Transitions, Bangalore,* 21 February 2018.
- Sustaining India's headlong rush to urbanization. Plenary lecture at TiECON Kerala, Kochi, 16 November 2018.
- 15. Nurturing the urban commons. Keynote lecture at the 1st International Association of the Commons (IASC) Virtual Conference, 1 November, 2018.
- 16. Ecologically smart cities: Sustaining India's headlong rush to urbanization. Plenary lecture at *NextGen Genomics, Biology, Bioinformatics and Technologies (NGBT), Jaipur,* 30 September 2018.
- 17. Nature in the City: Bengaluru in the Past, Present and Future. Plenary public science talk at *India Biogeography*, *Bangalore*, 27 September 2017.
- Resilience and sustainability. Closing keynote panel at Resilience 2017, Stockholm, 23
  August 2017.
- 19. Sustainability in an urbanizing world: The role of people. Keynote at *Global Land Project Open Science Meeting 2016, Beijing,* 24 October 2016.
- 20. <u>Hiding in plain sight: urbanization and conservation</u>. Keynote at *Student Conference in Conservation Science, Bangalore,* 22 September 2016.
- 21. <u>Urbanization: a new frontier for conservation</u>. Keynote at *Conservation Asia 2016, Singapore*, 1 July 2016.
- 22. <u>Conserving a fluid commons: water management in an urbanizing world</u>. Keynote lecture at *Indian Society of Landscape Architects (ISOLA) 2016 Conference, Bangalore*, 22 January 2016.
- 23. Adaptation to climate change and urbanization: coping with the dual environmental challenge. Keynote at 16<sup>th</sup> Swiss Global Change Day; ProClim-, Swiss Academy of Sciences, Bern, 1 April 2015.
- 24. Guiding the urban future: A new "urban nature". Keynote at 2nd International Conference on Urbanization and Global Environmental Change (UGEC), Taipei, 6 November 2014.

- 25. Conservation in Forests and Cities: Challenges of Collective Action. Keynote at *Student Conference in Conservation Science, Bangalore,* 15-18 June 2010.
- 26. People, Pixels and Parks: Forest Conservation in the Tropics. Keynote at 3<sup>rd</sup> International Conference on Monitoring Visitor Flows in Recreational and Protected Areas, Rapperswil, 12-17 September 2006.
- 27. Seeing Forests, Trees and People: Insights From the Air, On the Ground and In the Lab (with E. Ostrom). Keynote at *Center for International Forestry Research (CIFOR), Bali, 26* June 2006.

# Conference presentations and panels

- Publication Workshop on Communicating your Research Publishing in Journals, and Beyond. International Conference on Climate Change 2023, Colombo, online, 9 February 2023.
- Urban Transitions and Nature-Based Solutions. Panelist, Charting Net-Zero Carbon, Climate Resilient Transitions from Farms to Cities to National Scales: Learnings Across India and USA, M.S. Chadha Center for Global India at Princeton University and Department of Science and Technology India, Delhi, 18 January 2023.
- 3. Open for Climate Justice: Building a Sustainable Future Through Open Research. Panel Discussion, Taylor and Francis, online, 2 November 2022.
- 4. India's Growing Cities: The Ecological Sustainability Conundrum. Nature Conservation Foundation 25 Years Anniversary Keynote, Bangalore, 8 October 2022.
- 5. What lies ahead? Challenges and opportunities for Samaj, Sarkar and Bazaar, Panel Discussion with R. Nilekani, V. Sreenivasan, K. VijayRaghavan and S. Shisodia. Ashoka Trust for Research in Ecology and the Environment ATREE @25, Bangalore, 19 August 2022.
- 6. Promise of the Commons for Sustainable and Equitable Food Systems. Panel Discussion, UN Food Systems Summit Science Days Side Event by International Food Policy Research Institute and Foundation for Ecological Security, online, 7 July 2022.
- 7. Urban Forests and Wetlands in Asian Cities. Nature in the City: AFD Day of Exchanges, AFD French Development Agency, Paris/online, 1 July 2022.
- 8. Urban Commons. Panel Discussion on The Human side of Water Research, Sustainability Research and Innovation Congress 2022, Pretoria/online, 22 June 2022.
- 9. Amplify Innovation from the Low to Lower-Middle Income Countries. Panel Discussion on Urban Science for Acceleration of Global Urban Sustainability Transformations, Sustainability Research and Innovation Congress 2022, Pretoria/online, 21 June 2022.
- 10. Urban Green and Biodiversity in the Global South. Sofia Urban Green Conference 2022, Sofia Bulgaria/online, 7 June 2022.
- 11. 30 Years of Land Systems Research: A Retrospective. The 1st International Electronic Conference on Land, online, 19 May 2022.
- 12. Intervention Policy Session B. Urban Climate Justice Day, Luiss University and EUARENAS Cities as Arenas of Political Innovation in the Strengthening of Deliberative and Participatory Democracy, Reggio Emilia Italy/online, 13 May 2022.
- Moderator: Panel III, Urbanization. Information Gathering Workshop 1: Local Strategies, Committee on Operationalizing Sustainable Development, The US National Academies of Sciences, Engineering and Medicine, Washington DC/online, 21 April 2022.
- 14. Risk and Uncertainty: Views from the Global South. Development and Uncertainty in the Anthropocene: A workshop in support of the 2021/2022 Human Development Report. United Nations Development programme, New York/online, 12 April 2022.
- 15. Remote Sensing for Ecology, Conservation and Human Sustainability. 21st National Space Science Symposium, IISER Kolkata/online, 2 February 2022.
- 16. Sustainability in Education. Splendor 2021 Conference on the Future of Education, Cilre, Bangalore/online, 18 November 2021.
- 17. Rapid Urban Landscape Changes in India's 10 Largest Cities. 1st Annual Symposium of the Indian Regional Association for Landscape Ecology, Dehradun/online, 5 October 2021
- 18. Securing Our Food For Tomorrow. Food Security in a Changing Climate, The HEAD Foundation and Centre for Nature Based Solutions, Singapore University, Singapore/online, 14 September 2021.

- Conceptualizing the commons. Panel discussion with L. Canevet, C. Salati, A. Poteete, L. Kebir, A. Polko and S. Villamayor-Tomás. Urban Commons Virtual Conference, International Association of the Commons - Online Worldwide, 7 May 2021.
- Climate Resilience in Indian Cities. Panel in Smart Cities Conclave, Delhi/online, 24 March 2021.
- 21. Climate Crisis Reporting in India. Panel Discussion on Solutions Journalism, INKLINE/online, 14 March 2021.
- 22. Bridging the Gaps between Science, Policy and Practice A Pragmatic Way Forward. Future Earth South Asia webinar/online, 11 March 2021.
- Women in Landscape Ecology: A Global Conversation. Panel with Joy Obando and Sarah Gergel, International Association of Landscape Ecology Diversity and Inclusion Committee/online, 8 March 2021.
- 24. Future research direction of polycentric governance. Webinar series on polycentric governance, University of Kassel/online, 4 March 2021.
- 25. Coexisting: Urban Ecology. Panel with Xavier Japiot, Ville de Paris and François Chiron, Université Paris Saclay, in 'Centres and peripheries: reconfiguring post-Covid-19 urban landscapes. A virtual symposium on the future of cities', Paris/online, 5 February 2021.
- 26. Urbanization: A new frontier for conservation. International e-symposium on biodiversity, S.S. College Jehanabad/online, 3 February 2021.
- 27. Research and evaluation in humanities and social sciences. Knowledge Resource Centre, Azim Premji University, Bangalore/online, 20 January 2021.
- 28. Biodiversity, environmental health and climate change threats in Indian cities. Lead talk, International Virtual Conference on Biodiversity and Ecosystem Services in a Climate Change Perspective, Environmental Management and Policy Research Institute (EMPRI), Bangalore/online, 11 December 2020.
- 29. Seeking new imaginations of transformation from the global south. In Panel IV: Fostering Innovation for Transformational Change, Progress, Challenges, and Opportunities for Sustainability Science: A Workshop, The US National Academies of Sciences, Engineering and Medicine, Washington DC/online, 1 December 2020.
- 30. Thinking Ecologically about Indian Cities. IEEE Bangalore Humanitarian Technology Conference, online, 10 October 2020.
- 31. The Impact of *Governing the Commons* on Social-Ecological Thinking and Practice. Panel in Governing the Commons: 30 Years Later. Virtual Symposium, Ostrom Workshop, Indiana University/online, 2 October 2020.
- 32. N. Sinha, P. Bindra, S. Chakraborty and H. Nagendra (2019). Creating conservation narratives in an age of misinformation. Workshop, Student Conference in Conservation Science, Bangalore, 16 October 2019.
- 33. H. Nagendra (2019). Using big satellite data to map Indian cities. In Workshop on The Software State, Centre for Data in the Public Purpose, Azim Premji University, Bangalore, 19 January 2019.
- 34. H. Nagendra (2019). Nature in the City: Bengaluru through its Ecological History. At Exploring Urban Sustainability through India's Cities, American Institute of Indian Studies, Bangalore, 13 January.
- 35. H. Nagendra (2018). Keynote address Bangalore's water reality. In Re-watering Bangalore, Christ University, Bangalore, 12 December.
- 36. H. Nagendra (2018). Panel discussion on Women in Sustainable Development. At the 15<sup>th</sup> TN Khoshoo Memorial Award and Lecture, Indian Institute of Science, Bangalore.
- 37. H. Nagendra, S. Mundoli and A. Sen (2018). The urban commons in India transformations in norms, imaginations and practice. In World Commons Week 24 hours of global noon-hour webinars, Bangalore, 12 October.
- 38. E.J. Milner-Gulland and H. Nagendra (2018). The publication process: an interactive discussion. Workshop at Student Conference in Conservation Science, Bangalore, 27 September.
- 39. H. Nagendra (2018). Designing ecologically smart, resilient, inclusive cities in India the role of the urban commons. Between the Lines: International Conference on Architecture and Urban Planning, Reva University, Bangalore, 18 August.
- 40. H. Nagendra (2018). Urbanization: A new frontier for conservation. Indian National Young Academy of Science symposium: Living in a Changing Environment, Mysore, 27 June.

- 41. H. Nagendra (2018). Examining Sustainability and Transformations in India's Cities through a Transdisciplinary Lens. Invited talk at UCL Grand Challenges Workshop: "In Otto Königsberger's footsteps encouraging collaboration between cities and universities", National Institute of Advanced Studies, Bangalore, May 8.
- 42. S. Mundoli and H. Nagendra (2018) Commons in "no-man's land": Status and governance of rural commons in the urban fringes of Bengaluru city, India. The Sixth Annual Conference of Network of Rural and Agrarian Studies, 20-22 September 2018 at Central University Gujarat, Gandhinagar, Gujarat, India.
- 43. P. Venkatram, V.M. Hariprasad, S. Mundoli and H. Nagendra (2018) Smart cities and environmental vulnerabilities: Shivamogga and Davanagere. Workshop "In Otto Königsberger's footsteps –encouraging collaboration between cities and universities" organized by University College London, 8 May 2018 at National Institute of Advanced Studies. Bengaluru
- 44. H. Nagendra (2017). How can nature address the challenges our cities face? The Nature Conservancy India, Mumbai (via Skype), October 25.
- 45. S. Mundoli, B. Manjunatha and H. Nagendra (2017). Losing our commons: Land use changes to peri-urban commons of Bengaluru city. Conference paper submitted for the 2nd Asia-Pacific Urban Forestry Meeting, Seoul, 15 September.
- 46. S. Mundoli, H. Nagendra, H. Unnikrishnan and B. Manjunatha (2017) Our 'commons' future: Ecosystem services of peri-urban commons for sustainable cities. Conference on Peri-urban Development at Indian Institute of Technology, Chennai, 27 January 2017.
- 47. H. Nagendra (2016). Sustainability in an urbanizing world. Indian Institute of Architects National Convention 2016, panel on 'Imagining the Indian City', Bangalore, 3 December.
- 48. H. Nagendra (2016). Nature in the Indian city: is there such a thing? Public Event on Future of Nature, National Centre for Biological Sciences, Bangalore, 25 November.
- 49. H. Nagendra, S. Mundoli and H. Unnikrishnan (2016). Are smart cities ecologically foolish? Crowding out biodiversity and ecosystem services in India's growing cities. At *Global Land Project Open Science Meeting 2016, Beijing,* 26 October.
- 50. H. Nagendra, S. Mundoli and H. Unnikrishnan (2016). Protecting the urban commons for inclusive, ecologically smart cities. *India EU Dialogue on Smart Cities: Mobility, Infrastructure and Energy, Goethe Institute Bangalore*, 16 September.
- 51. S. Mundoli, B. Manjunatha and H. Nagendra (2016). Planning for resilience: Ecosystem services of Bengaluru's wooded groves. *XI International Conference on Public Policy and Management, Indian Institute of Management, Bangalore*, 10 August.
- 52. S. Agarwal and H. Nagendra (2016). Comparing the socio-ecological impacts of monitoring through local and state institutions in central India. *Conservation Asia 2016, Singapore,* 30 June.
- 53. S. Agarwal and H. Nagendra (2016). Forest change in an Indian tiger corridor: Assessing the influence of forest institutions on vegetation. *Conservation Asia 2016, Singapore, 2* Iulv.
- 54. S. Mundoli, B. Manjunatha and H. Nagendra (2016). Losing the commons: Rapid changes in gundathopes in Bangalore. *Workshop on Bangalore's 'Great Transformation', National Institute of Advanced Studies, Bangalore,* 25 June.
- 55. H. Unnikrishnan, B. Manjunatha and H. Nagendra (2016). Bonds that divide: urbanization and the erosion of the commons. *Reframing the Environment: Resources, Risk & Resistance in Neoliberal India, Mumbai University, Mumbai*, 22 January.
- 56. H. Nagendra, S. Mundoli and H. Unnikrishnan (2016). Commons that provide: The importance of Bengaluru's ecosystems for urban resilience. *URBIS (Urban Biosphere Initiative) Dialogue 8: The urban commons: the many ways in which nature in the city serves as a commons resource, not just a private*. International webinar, 14 January.
- 57. H. Nagendra, S. Mundoli and H. Unnikrishnan (2016). Commons that provide: Multiple uses and vulnerabilities of Bengaluru's urban commons. 8th Biennial Indian National Society for Ecological Economics (INSEE) Conference on Urbanization and the Environment, Bangalore, 6 January.
- 58. H. Nagendra (2015). Graying & greening in Bangalore: Impacts of urbanization on production and recreational ecosystem services. *Program on Ecosystem Change and Society (PECS) 2015 Conference,* Stellenbosch, South Africa, 5 November.

- 59. H. Unnikrishnan, B. Manjunatha and H. Nagendra (2015). Tales from long ago and why we need them to secure a resilient future. *International Conference on Green Development in Tropical Regions*, Padang, Indonesia, 28-31 October.
- 60. A.J. Kurien, S. Lele and H. Nagendra (2015). Forests of the mind: Contrasting official forest representation of a shifting cultivation (jhum) landscape in Garo hills, India. Student Conference in Conservation Science, Bangalore, 10 September.
- 61. H. Unnikrishnan and H. Nagendra (2015). Temporal continuities in governance of urban lake commons and effects on ecosystem services they provide: A case study of Bangalore. Student Conference in Conservation Science, Cambridge, UK, 26-28 March. Poster.
- 62. H. Nagendra and H. Unnikrishnan (2014). What is a good urban? Who decides? Stories around a lost lake in Bangalore. 2nd International Conference on Urbanization and Global Environmental Change (UGEC), Taipei, 8 November.
- 63. H. Nagendra (2014). The cooperative governance of urban ecosystems as commons. *2nd International Conference on Urbanization and Global Environmental Change (UGEC), Taipei*, 7 November.
- 64. H. Nagendra (2014). Graying and greening in Bangalore: Urban green spaces in Indian cities. *Indo-US Workshop on Best Practices and Eco-Restoration Technologies for Enhancing Functional Connectivity of Urban Landscapes, Bangalore,* 1 November.
- 65. S. Agarwal, H. Nagendra and R. Ghate (2014). Conservation in an institutional mosaic: People and forest within and outside the park of Central India. *Student Conference in Conservation Science Bangalore*, 28 September.
- 66. H. Unnikrishnan and H. Nagendra (2014). Historical contestations around an urban lake: Lessons learnt for lake management in Bangalore City. *Student Conference in Conservation Science Bangalore*, 28 September.
- 67. H. Nagendra (2014). Deforestation and urbanization: sustainability and change in Indian cities and forests. Invited talk, *International Geosphere Biosphere Programme (IGBP)* symposium, Bangalore, 7 April.
- 68. H. Unnikrishnan and H. Nagendra (2014). Unruly commons: contestations around Sampangi lake in Bangalore. In *Unruly Environments: Ecologies of Agency in the Global Era*, *Nehru Memorial Museum and Library*, *Delhi*, 13 February.
- 69. H. Nagendra (2013). Urbanization of habitats: challenges for India. In *High Level Structured Discussion, Resilient Design for Sustainable Urbanization: In Celebration of World Habitat Day 2013, UN Habitat, United Nations Headquarters, New York,* 30 September.
- 70. H. Nagendra (2013). Human-nature interactions: towards sustainability in urban and rural settings. In *Being Social: An Interdisciplinary Conference on Social Behavior, Indian Institute of Science, Bangalore*, 26 June.
- 71. H. Nagendra (2013). Multi-level governance and adaptation to climate change and urbanization: lake commons in Bangalore, India. *International Association for Study of the Commons, Mount Fuji, Japan, 4* June.
- 72. H. Nagendra, P. Blonda, P. Mairota, C. Marangi, D. Torri, R. Lucas, P. Dimopolous, J. P. Honrado, M. Niphadkar, S. Mücher, V. Tomaselli (2013). Using remote sensing for identification and monitoring of anthropic pressures on habitats and biodiversity in protected areas: a multi-nation study. *Association of American Geographers Annual Meeting 2013, Los Angeles,* 12 April.
- 73. M. Rao, H. Nagendra, G. Shahabuddin, R. Torrecilla (2012). Community Governance and Biodiversity Conservation: Synergies or Tradeoffs? *Protected Areas: are they safeguarding biodiversity? ZSL Institute of Zoology, London*, 9 November.
- 74. H. Nagendra (2012). Greening Cities: Urbanization and Climate Change in India. 3rd National Research Conference on Climate Change, Bangalore, 4 November.
- 75. H. Nagendra (2012). Conservation in Cities: Challenges in Bangalore. *URBIO 2012 3rd International Conference of Urban Biodiversity and Design, Mumbai, 10 October.*
- 76. H. Nagendra and E. Ostrom (2012). Institutions and Their Impact on Forest Structure and Composition. Presented by E. Ostrom. *Planet Under Pressure: New Knowledge Towards Solutions, London,* 26 March.
- 77. H. Nagendra and E. Ostrom (2011). Assessing Forest Change in Human Impacted Forests. *International Association for the Study of the Commons, Hyderabad*, 11 January.

- 78. H. Nagendra, L.S. Vailshery and M. Jaganmohan (2010). Significant Impact of Street Trees on Air Pollution and Temperature Reduction in Bangalore. *PolluteTech India 2010, Bangalore, 29 October.*
- 79. H. Nagendra and E. Ostrom (2010). The Challenge of Forest Diagnostics. *Delivered by E. Ostrom at the Sub-Plenary Session on "New Frontiers of Forest Economics," XXIII IUFRO World Congress, Seoul, South Korea*, 27 August.
- 80. H. Nagendra (2010). Deforestation or Regrowth? Drivers of Forest Change in Human Dominated Landscapes. *Seminar on Future Nature Conservation, Swedish Royal Academy of Science, Stockholm,* 11 February.
- 81. H. Nagendra and E. Ostrom (2010). Charting the Complexity of Forest Change in Human Dominated Forests. *International Conference on Evolution of Complex Systems, Indian Institute of Science, Bangalore,* 14 January.
- 82. H. Nagendra, L.S. Vailshery, M. Jaganmohan, D. Gopal, S. Nagendran (2009). Impact of Street Tree Canopies on Pollution and Microclimate in Bangalore. 5<sup>th</sup> International Canopy Conference on Forest Canopies: Conservation, Climate Change, and Sustainable Use, Bangalore, 29 October.
- 83. H. Nagendra (2006). Designing Markets for Environmental Services: Thinking at Multiple Scales. Panel on Designing Markets for Environmental Services: Potentials and Challenges for India, 9th Biennial Conference of the international Society for Ecological Economics, New Delhi, 15-18 December.
- 84. H. Nagendra and E. Ostrom (2006). Human Dimensions of Forest Change: Observations From the Air and On the Ground. 3<sup>rd</sup> Future Environmental Trends Conference, Energy, Environment and Development: Analyzing Opportunities for Reducing Poverty, Bangalore, 14-16 December.
- 85. H. Nagendra (2006). Peopling the Remote: Comparing Participatory and Exclusionary Strategies of Park Management in South Asia. *International Association for the Study of Common Property*, Bali, 19-23 June.
- 86. H. Nagendra, S. Pareeth and R. Ghate (2006). People within Parks: Forest Fragmentation and Change within the Tadoba-Andhari Tiger Reserve. *ATREE First Annual Research Seminar*, Bangalore, 6-7 January.
- 87. S. Pareeth and H. Nagendra (2005). Institutions, Protected Areas and Land Use A Landscape Framework for Conservation in India. *Society for Conservation Biology: First Asia Section Meeting*, Kathmandu, Nepal, 17-20 November.
- 88. H. Nagendra, S. Pareeth, B. Karna and M. Karmacharya (2005). Integrating Satellite Image Analysis with Field Data for a Multi-Scale Assessment of Local Institutions and Biodiversity Distribution in Nepal. *First DIVERSITAS International Conference on Biodiversity*, Oaxaca, Mexico, 9-12 November.
- 89. H. Nagendra and S. Pareeth (2005). Forest Conservation in the South Asian Landscape: Discrete and Continuous Views. 6<sup>th</sup> Open Meeting of the Human Dimensions of Global Environmental Change Research Community, University of Bonn, Germany, 9-13 October.
- 90. H. Nagendra. (2005). Problems of Collective Action in Natural Resource Management. *Conflict Resolution: Bringing Together Biologists and Social Scientists*, Wissenschaftskolleg: Institute of Advanced Studies, Berlin. 4-7 May.
- 91. H. Nagendra. (2005). Remote sensing and biodiversity assessments: On what scales and on which organisational level (genetic diversity, species richness, ecosystem diversity) are remotely derived variables useful predictors/indicators for biodiversity? Keynote contribution to the Electronic Conference on 'Landscape scale biodiversity assessment, the problem of scaling', European Platform for Biodiversity Research Strategy (EPBRS), March 7-23.
- 92. H. Nagendra, J. Southworth, C.M. Tucker, B. Karna and M. Karmacharya. (2004). Remote Sensing for Policy Evaluation: Monitoring Parks in Nepal and Honduras. *2004 meeting of the International Association for the Study of Common Property*, 9-14 August, Oaxaca, Mexico.
- 93. H. Nagendra, B. Karna and M. Karmacharya. (2004). Disentangling a complex web: Nepal's People and Parks program. *100<sup>th</sup> meeting of the Association of American Geographers*, 14-19 March, Philadelphia.
- 94. D. Munroe, H. Nagendra and J. Southworth. (2004). Protection, topography and market accessibility: Examining forest fragmentation in Celaque National Park, Western

- Honduras.  $100^{th}$  meeting of the Association of American Geographers, 14-19 March, Philadelphia.
- 95. H. Nagendra and J. Southworth. (2003). Seeing reforestation patterns, inferring institutional processes. 1st International Young Scientists Global Change Conference, 16-19 November, Trieste, Italy.
- 96. J. Southworth, D. Munroe and H. Nagendra. (2003). Investigating alternatives to classification analyses: From models to landscapes. 2003 Open Meeting of the Human Dimensions of Global Environmental Change Research Community, 18 October, Montreal, Canada.
- 97. H. Nagendra. (2003). Decentralization in Nepal: Evaluating community forestry through space and time. 99th Annual Meeting of the Association of American Geographers, 4-8 March. New Orleans.
- 98. J. Southworth, D. Munroe and H. Nagendra. (2003). Fragmentation and Land Cover Change Research: Addressing the issues of continuous vs. discrete analyses. 99th Annual Meeting of the Association of American Geographers, 4-8 March, New Orleans.
- 99. H. Nagendra. (2002). Forests and decentralization in Nepal: Views across time and space. *International Conference on Environmental History of Asia*. 4-7 December, New Delhi, India.
- 100. C.M. Tucker, D. Munroe, H. Nagendra and J. Southworth. (2002). Analyzing social and environmental processes in Honduras and Guatemala: The complementarity of ethnographic and spatially explicit approaches. 101st Annual Meeting of the American Anthropological Association. 20-24 November, New Orleans.
- 101. H. Nagendra, J. Southworth and C. Tucker. (2002). Accessibility as a determinant of landscape transformation in Western Honduras: Linking pattern and process. 98th Annual Meeting of the Association of American Geographers, 23-29 March, Los Angeles.
- 102. L. Carlson, H. Nagendra, G. Green and C.M. Schweik. (2002). A methodology for identifying institutional arrangements using remote sensing and GIS. *98th Annual Meeting of the Association of American Geographers*, 23-29 March, Los Angeles.
- 103. J. Southworth, H. Nagendra and C.M. Tucker. (2002). Forest Cover Change in a Western Honduras Community: Accessibility and Protection as Determinants of Landscape Transformation. *Working Forests in the Tropics: Conservation through Sustainable Management*, February 25-26, University of Florida, Gainesville.
- 104. J. Southworth, H. Nagendra and C.M. Tucker. (2001). Using landscape metrics to interpret land cover change in Western Honduras and to monitor infringement into Celaque National Park. 86th Annual Meeting of the Ecological Society of America, 5-10 August, University of Wisconsin, Madiscon, Wisconsin.
- 105. C.M. Tucker, J. Southworth and H. Nagendra. (2001). Environmental and social processes contributing to reforestation trends in Western Honduras. *Global Change Open Science Conference*, 10-13 July, Amsterdam, The Netherlands.
- 106. H. Nagendra, J. Southworth and C.M. Tucker. (2001). Using landscape metrics to interpret trajectories of land cover change: A case study in Western Honduras. 16<sup>th</sup> Annual Symposium of the U.S. Chapter of International Association of Landscape Ecology, pp. 177 (25-29 April, Arizona State University, Tempe, Arizona).
- 107. H. Nagendra. (2000). Assessing the influence of patch type in determining patch structure: Studies in the Western Ghats, India. Multifunctional Landscapes: Interdisciplinary Approaches to Landscape Research and Management, ed. J. Brandt, B. Tress and G. Tress, pp. 217 (18-21 October, Roskilde). Centre for Landscape Research, Roskilde, Denmark.
- 108. H. Nagendra. (2000). Comparing indices of ecotope and landscape structure derived from supervised and unsupervised classification: Studies in the Western Ghats of India. *International Archives of Photogrammetry and Remote Sensing*, Vol. XXXIII, Part B7, 955-961 (Proceedings of the 19<sup>th</sup> ISPRS Congress, 16-23 July, Amsterdam).
- 109. H. Nagendra and M. Gadgil. (1999). Ecological analysis and modeling: Issues and challenges. International Society for Photogrammetry and Remote Sensing Commission VII, Working Group 2 Application of Remote Sensing and GIS for Sustainable Development, 8-14 (11-13 March, Dehradun). ISPRS Working Group VII/2 and National Remote Sensing Agency, Hyderabad, India.

#### Public talks

### 2022

- Nature in the City: Bengaluru in the Past, Present and Future. Toyota Manufacturing Plant Bidadi, online, Bangalore.
- Climate Talks: A Better Global Urban Future. Google Anthropocene, Asia-Pacific Series, online. 24 November.
- Urban Ecological Sustainability: A Global Perspective. Cosmos Club, online, 1 November.
- Nature in the City: Bengaluru in the Past, Present and Future. Malleswaram Book Club Bangalore, online, 29 October.
- Water-Smart Cities as Social-Ecological Commons. Wednesdays for Water, online, 20 July.
- Is Sustainability Universal? The Importance of Place and Context. Public Lecture, Nature-Culture-Sustainability Studies Rhode Island School of Design, online, 18 April 2022.
- The Future of Wetlands in India's Cities. World Wetlands Day, Punjabi University Patiala, online, 2 February.
- Panel Discussion, Technology is not the Panacea: Lifestyle changes are Imperative, with Dia Mirza, Ranjani Ranjan Rashmi and Ninkunj Dalmia, Faculty of Management Studies Delhi, online, 29 January.
- Thinking Ecologically About India's Cities: Rapid Urban Landscape Changes in India.
   Inaugural address, Online Training Programme on Sustainable and Resilient Cities: The Way Forward, Indian Institute of Forest Management Bhopal, online, 17 January.
- Thinking Ecologically About India's Cities: Rapid Urban Landscape Changes in India. 2021 APRU Sustainable Cities & Landscapes Research Hub Webinar Series Shanghai, online, 13 January.

#### 2021

- Tiger Tiger Burning Bright. Discussant, with Ambika Aiyadurai, Babi Nobis and Tina Nobis, Pune International Literary Festival 2021, online, 21 December.
- Conversations around Sustainability and Climate Change. With Manu Saale, Managing Director and CEO, Mercedes-Benz Research and Development India, 30 November.
- Ecologically smart cities in India: From ancient to modern times. Breakthrough Science Society Mysore JR Lakshmana Rao Birth Centenary Year 2021 commemorative lecture, online, 27 October.
- Wetlands and Urban Space from Synergies to Contestations. The Future of Wetlands in Urban Spaces, Wetlands International South Asia Delhi Silver Jubilee Webinar, online, 20 October 2021.
- Restoration of Ecosystems. Visvesvaraya Industrial & Technological Museum Bangalore, online, 5 June.
- Nurturing a Collective Ethos of Sustainability: Some Experiments with Throwing Spaghetti at the Wall. Ostrom Workshop, Indiana University Bloomington, online, 26 April.
- Thinking Ecologically About Cities in the Global South. Konrad Lorenz Institute Vienna, online, 1 April.
- Thinking Ecologically about Cities: A Global South Perspective, Ashoka University Delhi, online, 31 March.
- Birds in our Cities. With Swaroop Patankar, Ravi Jambhekar, Kulbhushansingh Suryawanshi and Ashwin Viswanathan. Nature in Our City webinar series, Azim Premji University Bangalor, online, 20 March.
- Landscape Ecology in a Changing Climate: Science, Society and Action. Center for Advanced Studies of Blanes, Spanish Research Council (CEAB-CSIC) Blanes, online, 11 March
- Reimagining Sustainable Cities: Environmentalism and Equity in Urban India. The Oxford India Centre for Sustainable Development, Oxford, online, 4 March.
- Ecological and Geological History of Bangalore and its influence on early settlements and later growth. Bengaluru Science Collective, online, 27 February.
- Nature in the City. HELSUS Global South Encounters, Helsinki Institute of Sustainability Science, online, 24 February.

- Thinking Ecologically About Development in India's Cities. Kateel Appu Pai Memorial Lecture, Manasa Trust Shivamogga, online, 20 February.
- Ecologically Smart Cities. Children's Movement for Civic Awareness (CMCA) India Learning Sessions Bangalore, online, 25 January.

- Thinking ecologically about India's cities. Biodiversity Cell, Symbiosis University/online, 13 December.
- Urbanization, land use change and conservation of water bodies: nature based solution for climate adaptation. 'Conservation Issues related to Inland Lakes in the Country in the context of climate change', training course for IFS officers, Environmental Management and Policy Research Institute (EMPRI)/online, 24 November.
- Biodiversity and ecosystem services. Parikrma Humanity Foundation School/online, 24 November.
- Urban sustainability: challenges, visions and strategies. Panel on Rethinking Cities 29, Habitat Forum/online, 6 November.
- Writing on the Wall How Authors Influence the Climate Change & Sustainability
  Discourse. Panel discussion, Bangalore Business Literature Festival/online, 30 October.
- Thinking ecologically about India's cities: A challenge for our sustainable future.
   Environmental Sustainability Rotary Action Group: South Asia Chapter/online, October
- Recreating the rooe Panel discussion with Pradip Krishen, Sita Reddy and Shannon Olsson, Bangalore Science Museum and Bangalore International Centre/online, August 21.
- Green, food-secure and healthy cities. Panel discussion at Tomorrow's Liveable Cities/online, July 31.
- Urban environment and biodiversity in the post-Covid world. Panel discussion at Urban Update e-dialogues/online,
   <a href="https://www.youtube.com/watch?v=TL6IVeI4EyM&list=PL0bLoUo1mKwsw50kX1dCQDNXd0wWqwi">https://www.youtube.com/watch?v=TL6IVeI4EyM&list=PL0bLoUo1mKwsw50kX1dCQDNXd0wWqwi</a> n&index=9, 30 July.
- An ecological imagination of India's cities. Dr K Narayana Reddy memorial lecture, Sri Venkateswara College of Engineering, Tirupati/online, 12 July.
- Collective roles and responsibilities of people in restoration of the commons. In The People Factor, Bangalore Environment Trust/online, 7 July.
- Chettu, Cheruvu, Rayee, Rappa: Learning to love and save trees. Panel discussion at Hyderabad Literature Festival, Hyderabad, 26 January.
- How Green is My City? Panel discussion at Hyderabad Literature Festival, Hyderabad, 25 January.
- Thinking Ecologically about India's Cities. Public talk hosted by WWF Hyderabad and Deccan Birders, Hyderabad, 24 January.
- Bengaluru: City of Water. Science Gallery Bengaluru, Bangalore International Centre, Bengaluru, 12 January.

# 2019

- Nature in the City: Bengaluru. People For Animals, Bengaluru, 26 December.
- Cities and Canopies (with Seema Mundoli). Goobe's Book Republic, Bengaluru, 13
  December.
- Fun with Trees (with Seema Mundoli, Dechamma DS and Ravi Jambhekar). Prakriya Green Wisdom School, Bangalore, 11 December.
- Who is in Charge of Saving the Planet? Panel discussion, German Consulate and Christ University, Bengaluru, 11 November.
- The Secret Lives of Trees. Panel discussion, Bengaluru Literature Festival, 10 November.
- Discovering Bengaluru. Panel discussion, Bengaluru Literature Festival, 10 November.
- Living with the wild: Ecology, contribution and urban wildlife. Panel discussion, People for Animals Wildlife Hospital, Bangalore. 28 September.
- Urban climate crisis: Challenges and solutions for Bengaluru. 23 Sep 2019. Panel discussion, Fridays for Future, Bangalore, 23 September.

- Thinking Ecologically about Indian Cities. Kaapi with Kuriosity, International Centre for Theoretical Physics and Jawaharlal Nehru Planetarium, Bangalore, 22 September.
- Cities and Canopies. Book Lounge event at Takshashila, Bangalore, 20 September.
- How Green was our City: Bengaluru. Panel discussion at WomenWritersFest, 31 August.
- Nature in the City: What it is, and why we should care. NatureinFocus Festival, Bangalore, 3 August.
- Conservation and water. Panel discussion at NatureinFocus Festival, Bangalore, 2
   August.
- Cities and Canopies (with Seema Mundoli). Courtyard Koota, Bangalore, 30 July.
- Thinking ecologically about Bengaluru. Panel discussion at ConsciousBengaluru, Bangalore, 27 July.
- The urban treeverse: Stories of cities and trees. Panel discussion at Indian Institute of Human Settlements Public Text Series, Bangalore, 25 July.
- Thinking ecologically about India's future. Accenture, Bangalore, 22 July.
- Marriages of the Wild Conservation and Cohabitation. Panel at Mysuru Literature Festival, 14 July.
- Ecology and the human interface. Guest Lecture, MSc. Heritage Conservation and Management, Wildlife Institute of India (via Skype), 12 July.
- Science that leads to change. Christ University Science Faculty, Bangalore, 10 July.
- Cities and Canopies (with Seema Mundoli). Champaca Bookstore and Café, Bangalore, 9
  June.
- Thinking ecologically about our urban future. Science at the Sabha 2019, Chennai, 24
  February.
- Documentation of lake restoration. Kaikondrahalli Lake Conference 2019, Bangalore, 17
  February.
- Nature in the City: Bengaluru in the Past, Present and Future. Jawaharlal Centre for Advanced Scientific Research, Bangalore, 18 January.

- Managing the commons. Guest Lecture in Foundations of New Institutional Economics course, Indian Institute of Management, Ahmedabad (via Skype), 19 November.
- Examining sustainability and transformations in India's cities through a transdisciplinary lens. Guest Lecture in System Earth course, Institute of Environmental Science, Leiden University (via Skype), 12 June.
- Nature in the City: Bengaluru. Bhoomi Habba, Bangalore, 7 April.

#### 2017

- People and Nature in Bengaluru. Alliance Francaise, Bangalore, 25 November.
- Nature in the City: Hiding in Plain Sight. Bangalore International Centre, Bangalore, 4
  November.
- Nature and the City. Panel discussion with Jairam Ramesh, former Minister of Environment and Forests, moderated by Dhanya Rajendran. Bangalore Literature Festival, Bangalore, 28 October.
- Lakes of Bengaluru. Prakriya Green Wisdom School, Bangalore, 7 July.
- Urban ecology and sustainability. Poorna Prajna School, Bangalore, 6 July.
- Connecting people with nature: World Environment celebrations. Toyota Kirloskar Motor, Bidadi, 23 June.
- Role of industries in conserving biodiversity. Biodiversity Awareness Seminar, Bidadi Industrial Unit, Bidadi, 21 June.
- Development and sustainability: Conflicts and synergies. Workshop at Education for Sustainability Confluence, Bhoomi College, Bangalore, 17 June.
- Nature in the city: Bengaluru in the past, present, and future. Critical Cities Circle, Alternative Law Forum, Bangalore, 16 June.
- Nature in the city: Bengaluru in the past, present, and future. World Environment Day celebrations, Mount Carmels College, Bangalore, 5 June.
- The history of trees in Bangalore. Mara Habba (Tree Festival) Jhatkaa.org, Cubbon Park, Bangalore, 3 June.
- Panel Discussion, Education and Sustainability: Bhoomi College, Bangalore, 14 April.

- Nature in the City: Bengaluru in the Past, Present and Future. Public lecture, Neralu Tree Festival, Bangalore, 19 February.
- Nature in the City: Bengaluru in the Past, Present and Future. Azim Premji University Library Faculty Seminar Series, Bangalore, 17 February.

- Nature in the Indian city: is there such a thing? Public lecture, Indian Institute of Human Settlements, Bangalore, 24 November.
- Sustainability in an urbanizing world: Indian Institute of Human Settlements Master Class, Bangalore, 24 November.
- Nature in the city: Bengaluru in the past, present, and future. Azim Premji University School of Liberal Studies, Bangalore, 19 October.
- Nature in the city: Bengaluru in the past, present, and future. Koramangala 3<sup>rd</sup> Block Residents Welfare Association, Bangalore, 18 September.
- Ecologically smart cities. MindsIgnite Talks on Technolution The future of smart cities, Bangalore, 5 September.
- Urban commons: citizen action and sustainability. Aikyam sustainable living weekend conversation series, Atta Galatta Bangalore, 20 August.
- Nature in the city: Bengaluru in the past, present, and future. Prakriya Middle School, Bangalore, 8 August.
- Nature in the city: Bengaluru in the past, present, and future. Kaikondrahalli lake amphitheatre, Bangalore, 7 August.
- Nature in the city: Bengaluru in the past, present, and future. Azim Premji University Faculty Seminar Series, Bangalore, 3 August.
- Nature in the city: Bengaluru in the past, present, and future. Good Earth Tarana, Bangalore, 23 July.
- Nature in the city: Bengaluru in the past, present, and future. Indegene Life Sciences, Bangalore, 21 July.
- Nature in the city: Bengaluru in the past, present, and future. Azim Premji University Advanced Graduate Workshop, Bangalore, 13 July.
- Nature in the city: Bengaluru in the past, present, and future. YOUth LEADers 2016, Office of Rajya Sabha MP Rajeev Gowda, 25 June.
- Nature in the city: Bengaluru in the past, present, and future. Book launch, Alliance Francaise Bangalore, 10 June.
- Landscaping resilience and change in an Indian metropolis. RV College of Architecture, Bangalore, 4 April.
- Nature in the city: Bengaluru in the past, present, and future. Zoological Society London, 18 March.
- Nature in the city: Bengaluru in the past, present, and future. Royal Holloway College, London, 16 March.
- Nature in the city: Bengaluru in the past, present, and future. Bartlett Development Planning Unit, University College London, 14 March.
- Biodiversity in Bangalore: Resilience and change in an Indian metropolis. Centre for Biodiversity and Environment Research, University College London, 14 March.
- Lakes and trees of Bengaluru: Creating an ecologically smart city. Bruhat Bengaluru Mahanagara Palike Malleswaram, Bangalore, 5 March.

# 2015

- Nature in the city: Changes in Bengaluru over space and time. At Microsoft Research Centre, Bangalore, 14 November.
- Ecological and environmental changes in Bangalore from 6<sup>th</sup> century AD until now. At National Public School Indiranagar, Bangalore, 31 October.
- Mapping new knowledge and integrating it into the Indian syllabus for higher education.
   At Centre for Contemporary Studies, Indian Institute of Science, Bangalore, 3 October.
- Biodiversity in the city: Importance for sustainable development. At Christ University, Bangalore, 28 August.
- Biodiversity in urban settings. At WIPRO: Confederation of Indian Industry meet, Bangalore, 27 August.

- Biodiversity in urban settings: resilient, ecologically smart cities. At Indian Institute of Human Settlements, Bangalore, 20 August.
- Environment in Bangalore (In Kannada). At the Parisara Ghoshti (Environment Discussion), Second Kannada Sahitya Sammelana of the Bommanahalli Kannada Sahitya Parishat, Bangalore, 10 July.
- Nature in the city: Bengaluru. At Rotary Club, Koramangala, Bangalore, 12 June.
- Tree planting in Bengaluru. At Indian Institute of Engineers, Bangalore, 10 June.
- Transformations of urban commons in Bengaluru. With Seema Mundoli and B. Manjunatha. At World Environment Day Celebrations, Bangalore, 2 June.
- Nature in the city: Bengaluru past, present, future. Panel presentation at Multiplicity: Diversity in Bangalore's heritage. British Council, organised by Rereethi, Bangalore, 24 April.
- Monitoring trees in Bengaluru. Vruksha.com launch at NMKRV College, Bangalore, 31 January.

- Space and the cooperative governance of urban commons. Centre for Contemporary Studies, Indian Institute of Science, Bangalore, 11 November.
- Deforestation and urbanization: sustainability and change in Indian cities and forests. World Resources Institute, Bangalore, 13 May.
- People and biodiversity in Bengaluru. Bengaluru Needs You, Bangalore, 12 May.
- Conservation in forests and cities: challenges of collective action. International Centre for` Mountain Development (ICIMOD), Kathmandu, 3 April.
- People and biodiversity in Bengaluru. Neralu: Tree Festival, Bangalore, 8 February.
- Collective action for conservation of lakes in Bengaluru. Bhoomi College, Bangalore, 7 February.
- Trees and people in Bengaluru. Bhoomi College, Bangalore, 6 February.
- Remote sensing applications for conservation. Keynote Address, Synergy 2014, Jyothi Nivas College, Bangalore, 4 February.

# 2013

- Deforestation and Urbanization: Sustainability and Change in Indian Cities and Forests. Public Lecture, Macalester College, Saint Paul Minnesota, 30 October.
- Deforestation and Urbanization: Sustainability and Change in Indian Cities and Forests. Public Lecture, Carleton College, Northfield Minnesota, 2 October.
- Graying and Greening in Bangalore: Impacts of Urbanization on Ecology. Department of Political Science, Carleton College, Northfield Minnesota, 2 October.
- Graying and Greening in Bangalore: Impacts of Urbanization on Ecology. Jan Serie Center for Scholarship and Teaching, Macalester College, Saint Paul Minnesota, 30 September.
- The Challenge of Collective Action: Ecological Restoration by People in Forests and Cities. Nehru Memorial Museum and Library, Delhi, 24 May.
- Mapping and Community Efforts in Saving Lakes. Save Bangalore's Lakes The Alternative and Korkai, Bangalore, 10 May.
- People and Plants in Bangalore. Indian Urban Biodiversity Workshop, National Centre for Biological Sciences, Bangalore, 7 May.
- Human-Nature Interactions: Impact on Sustainability in Cities and Forests. Azim Premji University, Bangalore, 26 April.
- Human-Nature Interactions: Drivers and Outcomes of Land Change in India. Macalester College, Saint Paul, Minnesota, 3 April.
- Introduction to Remote Sensing Applications. Department of Geography, Macalester College, Saint Paul, Minnesota, 3 April.
- Heterogeneity in Access to Benefits: Fine Scale Challenges for Ecosystem Service Valuation and Prioritization. With Hita Unnikrishnan, Diversitas EcoServices Meeting, Paris, 28 March.
- Education and Conservation. Keynote address, National Conference on 'Green Wealth A Strategy for Health', Mount Carmel College, Bangalore, 27 February.
- Collective Action: Innovation in the Context of Conservation, Fidelity India, Bangalore, 5
  February.

- Biofuels and Biodiversity: A Global Perspective. Seminar on BioFuel Plantations, Bharathi Vidya Bhavan, Bangalore, November 7.
- Developing Science-Based Knowledge for Sustainable Biodiversity Management: Perspectives from India. DIVERSITAS side-event "How integrated science can support the goals of the Rio Conventions". 11th Conference of Parties of the Convention on Biological Diversity, Hyderabad, October 9.
- Nature in the City: How People Shape, and Are Shaped by Biodiversity in Bangalore. Nature in the City Showcasing Biodiversity in Bangalore, Bangalore, October 4.
- Urban Green Spaces of Bangalore: Biodiversity and Ecosystem Services. Department of Environmental Sciences, Mount Carmel College, Bangalore, August 31.
- Conservation in Urban Environments. ATREE Seminar Series, Bangalore, July 9.
- Human-Nature Interactions and their Impact on Sustainability. First Ramanujan Fellows Meeting, Department of Science and Technology, Pune, May 6.
- Urban Environment and Ecology of Bangalore. Chief Guest Presentation at Rotary Club Bangalore South, Bangalore, April 18.
- T.S. Narayana Rao Memorial Lecture on Urban Ecology Challenges of Urban Conservation in Bangalore. 27th National Convention of Architectural Engineers, Indian Institution of Engineers, Bangalore, March 6.
- Urban Green Spaces of Bangalore Biodiversity and Ecosystem Services. Center for the study of Sustainable Transport, infrastructure and Urban Planning (CiSTUP), Indian Institute of Science, Bangalore, January 10.

### 2011

- Greening or Graying the City? Urban Biodiversity and Challenges of Urban Conservation. ATREE Seminar Series, Bangalore, August 10.
- Urban Ecosystems. Confederation of Indian Industries, Bangalore, March 16.
- Urban Ecosystems: Critical Ecological Resources. Indian Institution of Engineers, Bangalore, January 21.
- Conservation in South Asian Forests: Challenges of Collective Action. South Asia Exchange Programme Common Property Resource, Hyderabad, January 8.

# 2010

- Conservation in Forests and Cities. Bangalore International Center, Bangalore, 26 November.
- Urban Forests: A Critical Ecological and Environmental Resource. Vruksha: Inauguration
  of Web Portal for Participatory Mapping of Bangalore's Street Trees, Bangalore, 10
  October.
- Conservation in Forests and Cities: Challenges of Collective Action. Indian Institute of Management, Bangalore, 30 June.
- Urban Ecology Research. National Institute of Advanced Studies, Bangalore, March 23.
- Our Forests, Our Future. Infosys Sustainability Series, Bangalore, 5 March.
- Street Trees of Bangalore: A Critical Ecological and Environmental Resource. Center for the study of Sustainable Transport, infrastructure and Urban Planning (CiSTUP), Indian Institute of Science, Bangalore, 16 February.
- Drivers of Reforestation in the Human Dominated Landscapes of South Asia. Stockholm Resilience Center, Stockholm, 10 February.
- Street Trees of Bangalore. ATREE Public Seminar on Urban Ecology, Bangalore, 30 January.

# 2009

- Bangalore Urban Atlas. Urban Social-Ecological Systems and Urbanization International Workshop, Kirstenbosch Botanical Garden, Cape Town, South Africa, 17 October.
- Green Spaces, Biodiversity, and Institutions in Bangalore: First Experiences with the Urban Atlas. Stockholm Resilience Center and ATREE – Urban Atlas Meeting, Bangalore, 19 February.

# 2008

 Reforesting Landscapes: Pattern and Process. Swiss Federal Institute of Technology (ETH), Zurich, 15 December.

2007

 Drivers of Reforestation in Human Dominated Forests. ATREE Seminar Series, Bangalore, 31 May.

### 2006

- Can't see the Forest or the Trees! How Societal Lenses Impact Pixellated Views of the World. Center for Contemporary Studies, Indian Institute of Science, Bangalore, 13 October.
- Deforestation or Regrowth? A Journey into the Tropical Forests of South Asia. Swiss Federal Institute of Technology (ETH), Zurich, 19 January.

#### 2005

- Piecing Together the South Asian Landscape. Collegium Budapest: Institute for Advanced Study, Budapest, 16 September.
- Integrating Society in Science. Swiss Federal Institute of Technology (ETH), Zurich, 24
  January.

### 2004

- Science and Society Integrating Social and Ecological Perspectives on Forest Conservation. Towards a Co-Evolution of Science and Society: Indian National Science Academy Seminar, Chennai, 27 December.
- Developing an Interdisciplinary Research Program on Institutions and Forest Change in Nepal. Strategy Building Workshop for the Eastern Himalayas Programme, ATREE, Jaldapara Wildlife Sanctuary, 16 December.
- Decentralization in Nepal: Forest Changes Across Time and Space. ATREE Seminar Series, Bangalore, 7 July.
- Trees, People, Pixels: Human-Forest Interactions in the Tropics. Indian Academy of Sciences Fifteenth Mid-Year Meeting, Indian Institute of Science, Bangalore, 2 July.
- Remote Sensing for Biodiversity Conservation: Developing Methods for the Tropics.
   Symposium on Conservation of India's Biological Diversity, Indian Institute of Science,
   Bangalore, 31 May.
- Human-Forest Interactions in the Tropics. Wissenschaftskolleg zu Berlin Institute for Advanced Study, Berlin, 28 April.
- Peopling the Remote: Linking Remote Sensing with Field Studies to Investigate the Human Dimensions of Forest Change. Swiss Federal Institute of Technology (ETH), Zurich, 29 January.

# 2003

- Contextualizing the Remote: Exploring Process/Pattern Linkages. Land Use and Environmental Change Institute Colloquium Series, University of Florida, Gainesville, Florida, 21 February.
- From the Local to the Regional: Institutions, Policies and the Human Dimensions of Forest Conservation. ATREE, Bangalore, 2 January.

# 2002

- Cutting Across Space and Time: Analyzing Changes in Forest Cover and Biodiversity in Mountainous Developing Areas. School of Environment, Resources and Development, Asian Institute of Technology, Bangkok, Thailand. 4 September.
- Using Remote Sensing to Search for "Institutional Anomalies" in Forest Management: A
  Case Study in Nepal. Meeting of the International Forestry Resources and Institutions
  (IFRI) Research Network, Kenya Forestry Research Institute, Nairobi, Kenya, (with C.M.
  Schweik and D.R. Sinha), 27 June.
- Locating a Needle in a Haystack? The Search for Spatial Anomalies in Nepal. National Science Foundation External Board Review, Center for the Study of Institutions, Population, and Environmental Change (CIPEC), Indiana University, Bloomington, Indiana, 4 April.
- Cross Continental Comparisons: Africa and Asia. Center for the Study of Institutions, Population, and Environmental Change (CIPEC) Colloquium Series, Indiana University, Bloomington, Indiana, (with J. Unruh), 20 February.
- Linking Process with Pattern: Roads, Terrain and Landscape Dynamics. Center for the Study of Institutions, Population, and Environmental Change (CIPEC) Open Forum, Indiana University, Bloomington, Indiana, 14 February.

 Monitoring Human Impacts on Land Cover Change in Developing Countries: Forging Integrated Approaches. Center for Interdisciplinary Studies in Environment and Development – ATREE Seminar Series, Bangalore, 10 December.

### 2001

- Accessibility and Protection as Determinants of Landscape Transformation in Western Honduras: Linking Pattern and Process. Environmental Science Seminar, School of Public and Environmental Affairs (SPEA), Indiana University, Bloomington, Indiana, (with J. Southworth and C.M. Tucker), 4 October.
- Fragmentation of a Landscape. Center for Ecological Sciences Seminar Series, Indian Institute of Science, Bangalore, (with J. Southworth and C.M. Tucker), 9 April.

# 2000

 Incorporating Landscape Transformation into Local Conservation Prioritization: A Case Study in the Western Ghats, India. Center for the Study of Institutions, Population, and Environmental Change (CIPEC) Colloquium Series, Indiana University, Bloomington, Indiana, 20 November.

#### Grants

- 2017- Founder and Lead, Centre for Climate Change and Sustainability, Azim Premji University.
- 2017- PI and Research Lead, Centre for Urban Ecological Sustainability, Azim Premji University.
- 2017 PI, Faculty Small Grant, Azim Premji University, 'Mapping urbanization in India: patterns of urban growth and consequences for green spaces'.
- 2015- PI, Research Grant, Azim Premji University, 'Urbanization in Bengaluru city:
- 2017 Transformations of the commons'.
- 2015- PI, Faculty Small Grant, Azim Premji University, 'Historical transformations of the
- 2017 urban commons in Bangalore: Mapping changes in distribution, livelihood and cultural use, and governance'.
- 2011- PI, USAID grant 'Institutional dynamics of adaptation to climate change and
- 2015 urbanization: analysis of rain fed agricultural-urban lake systems in Bangalore, India'.
- 2014 PI, Indo US Science and Technology Foundation grant for supporting Indo-US bilateral workshop on 'Adaptation of rural communities to climate change: Bridging the gap between academia and community workers and identifying research needs'.
- 2011- PI, SANDEE grant 'Conservation in a tightly coupled, fragile social-ecological system:
- 2013 investigating community inputs and forest outcomes in central India.'
- 2011- PI, National Geographic Society grant 'Urban biodiversity hotspots: Institutions and
- 2013 sacred spaces in Bangalore.'
- 2010- Co-PI, European Union FP7 grant 'Biodiversity Multisource Monitoring System: from
- 2013 Space to Species (BIO\_SOS).'
- 2009- PI, Ramanujan Fellowship, Department of Science and Technology, Government of
- 2014 India
- 2009 PI, Stockholm Resilience Center grant 'Urban Ecosystem Services Mapping and Atlas.'
- 2007 PI, International Foundation for Science grant 'Mapping 30 Years of Urban Land Cover Change in Bangalore: Linking People and Pixels.'
- 2007 Co-PI, European Union grant 'Land Use Policies and Sustainable Development in
- 2009 Developing Countries (LUPIS).'
- 2003 PI, Society in Science: Branco Weiss Fellowship, Swiss Federal Institute of Technology,
- *2008* Zurich, for interdisciplinary society-science research.
- 2006 PI, National Geographic Society grant 'Institutions, Land Use and Biodiversity -Developing a Landscape Framework for Conservation in the Eastern Himalayas.'
- 2005 Travel grant, First DIVERSITAS International Conference on Biodiversity, Oaxaca, Mexico.
- Writing and travel grant, Wissenschaftskolleg zu Berlin, 'Investigating the Reforestation Landscape: Pattern, Process, and the Role of Collective Action.' March 15 May 15.
- 2003 Travel grant, Asia-Pacific Network for Global Change Research, First Young Scientists Global Change Conference, 16-19 November 2003, Trieste, Italy.
- 2000 Travel grant, International Society for Photogrammetry and Remote Sensing, 19th ISPRS Congress, 16-23 July 2000, Amsterdam.

# **Teaching**

Graduate courses

Remote Sensing for Sustainable Development (2019)

Understanding Land Use/Land Cover Change (2015-19)

Ecology and Development (2014-18)

Sustainability: An Interdisciplinary Exploration (2014-17)

Sustainability in Planning and Practice (2014)

Introduction to GIS and Remote Sensing (2012-13)

#### *Undergraduate*

Framing sustainability: A social-ecological systems perspective (2020, 2021)

Introduction to Remote Sensing (2013)

Land Change Science in the Global South (2013)

# Certificate Courses

Exploring Sustainability in the Indian Context

Nature Writing for Children

EarthCheckIndia: India's Climate Change Data Journalism, Visualisation and Verification

Introduction to Geographical Information Systems

Remote Sensing using Quantum GIS

### **Professional Service**

Current

Co-Editor: Global Environmental Change

**Editorial Board**: *Urban Transformations* 

Current Opinion in Environmental Sustainability

Past

**Senior Associate Editor**: Conservation Letters

**Senior Editor**: Remote Sensing for Ecology and Conservation

**Associate Editor:** Science Advances

Associate Editor: Ecology, Economy and Society - the INSEE Journal

**Advisory Board:** *LAND* **Editorial Board:** 

Agriculture, Ecosystems and Environment

Current Science
Ecology and Society
Journal of Land Use Science

LAND

Regional Environmental Change

Resonance: Journal of Science Education

Urban Forestry & Urban Greenina

- 2021 Organizing committee, Preparing Urban Ecology to Contribute to Positive Urban Futures, online workshop, Cary Institute of Ecosystem Studies, June 7-8 and 16-17.
- 2021 Organizing committee, Urban Commons virtual conference, International Association for the Study of Commons, May 6-8.
- 2015-21 Jury member, Elinor Ostrom Award for Collective Governance of the Commons
- 2014-21 Jury member, WIPRO Earthian Sustainability program for schools and colleges
- 2021 Organizing Committee, International Workshop on Preparing Urban Ecology to Contribute to Positive Urban Futures, Cary Institute of Ecosystem Studies, Milbrook NY (online), June 7-17, 2021.
- 2021 Organizing Committee, Urban Commons Virtual Conference, International Association of the Commons, May 6-8, 2021.
- 2020 Editor, Special Issue "The Science-Policy Interface of Ecosystems and People", *Ecosystems and People* (with Patricia Balvanera, Sander Jacobs, and Patrick O'Farrell).
- 2016-9 Conference Review Committee, Student Conference in Conservation Science, Bangalore
- 2017 Editor, Special Issue "Sustainability in an Urbanizing World: The Role of People", Sustainability.
- 2017 Editor, Special Issue "Urban Land Systems: An Ecosystems Perspective", *LAND* (with Andrew Millington and Monika Kopecka).
- 2017 Conference Review Committee, International Association for the Commons 2017, Utrecht
- 2016 Conference Science Committee, Global Land Project Open Science Meeting 2016, Beijing

- 2016 Conference Scientific Programme Committee, Conservation Asia 2016, Singapore
- 2016 Conference Scientific Committee, Indian Society Ecological Economics 2016, Bangalore.
- 2016 Co-chair, session on 'Applying the ecosystem services concept to urban and urbanising land systems', *Global Land Project Open Science Meeting 2016, Beijing, 26 October* (with Andrew Millington, Flinders University, Australia).
- 2016 Guest editor, special section of *Current Science* on 'Climate Change Impacts and Adaptation', April 10<sup>th</sup> (with Pinki Mondal and Ruth DeFries).
- 2016 Convenor, URBIS (Urban Biosphere Initiative) Dialogue 8: The urban commons: the many ways in which nature in the city serves as a commons resource, not just a private. International Webinar, January 14.
- 2016 Chair, Session on "Smart Cities, but for Whom? The Loss of the Commons and Urban Vulnerability." With S. Mundoli and H. Unnikrishnan, 8th Biennial Indian National Society for Ecological Economics (INSEE) Conference on Urbanization and the Environment, Bangalore, January 6.
- 2015 Chair, Session on "Transformations in Ecosystem Services due to Urbanization." With D. Maddox, Program on Ecosystem Change and Society (PECS) 2015 Conference, Stellenbosch, South Africa, November 5.
- 2014 Participant, What is Urban? Workshop, Taipei, November 5.
- 2014 Co-Chair, Round Table on "Resilience in the Landscape: Improving Human Well-Being." With D. Maddox and T. Elmqvist. 2nd International Conference on Urbanization and Global Environmental Change (UGEC), Taipei, November 8.
- 2014 Guest Editor, Current Conservation Special Issue: Urban Ecology (Volume 8.2). With M. Tengö, M. Schewenius, M. Katti and T. Elmqvist. Published July 2014.
- 2013 Jury member, Prof. Elinor Ostrom International Fellowship on Practice and Policy on Commons 2013, awarded by International Association for Study of Commons and Foundation for Ecological Security
- 2012 Chair, Science Program Committee, Biodiversity Asia 2012: 2nd Asia Regional Conference of the Society for Conservation Biology - Asia Section, Bangalore
- 2009 Member, Task Force for making Recommendations to the Government for Strengthening the Botanical and Zoological Surveys of India, Government of India
- 2006-7 Nominations Committee, International Association for the Study of the Commons
- 2006 Editorial Board Member, Agriculture, Ecosystems and Environment
- 2006 Graduate Program Coordinator, ATREE-Manipal University PhD. program
- 2006 Co-organizer and Chair, panel on "Balancing Conservation Objectives with Human Needs: Tradeoffs in Protected Area Management" at 11th Biennial Conference of the International Association for the Study of Common Property, Bali, Indonesia, 19-23 June. Co:Chair: Arun Agrawal
- 2006 Guest editor, Applied Geography, special issue "Do Parks Work? Examining Tradeoffs in Protected Area Conservation". Collaborators: Jane Southworth, University of Florida; Darla Munroe, Ohio State University
- 2005 Co-Organizer and Chair, panel on "Remote Sensing for Biodiversity Assessment" at the First DIVERSITAS International Conference on Biodiversity, Oaxaca, Mexico, 9-12 November. Co-Chair: Donald Potts
- 2005 Co-organizer and Chair, panel on "Contextualizing the Pixel: Comparing Continuous and Discrete Methods for Regional Studies of Human Dimensions on Land-Use/Cover Change (LUCC) Research", at the 6th Open Meeting of the Human Dimensions of Global Environmental Change Research Community, University of Bonn, Germany, 9-13th October. Co: Chairs: Jane Southworth and Darla Munroe
- Guest Editor, *Agriculture, Ecosystems and Environment*, special issue "Landscape Fragmentation and the Analysis of Land Use/Land Cover Change: from Pattern to Process" Vol. 101 (Issues 2-3). Collaborators: Darla Munroe, University of North Carolina; Jane Southworth, University of Florida
- Organizer and Chair, "Are Parks Working? Exploring Tradeoffs in Protected Area
   Conservation", Special Sessions I-IV at 100th Annual Meeting of Association of American
   Geographers, 14-19 March, Philadelphia. Co-chairs: Darla Munroe and Jane Southworth
- 2003 Member, DIVERSITAS science and implementation plan scoping meeting: Core Project 1 "Discovering Biodiversity and Predicting its Changes", 19-21 March, Paris, France

Co-chair, Special Session on "Landscape Fragmentation and the Analysis of Land Use/Land Cover Change: From Pattern to Process", Sessions I - III, 98th Annual Meeting of the Association of American Geographers, 23-29 March, Los Angeles. Chair: Darla Munroe
 Core member, Western Ghats Biodiversity Network: design, training, coordination and execution of a decentralized program of landscape mapping and biodiversity assessment involving over 50 researchers

#### PhD. Advisees

Chair/Co-Chair

Shivani Agarwal, Ashoka Trust for Research in Ecology and the Environment (ATREE) (completed October 2017)

Hita Unnikrishnan, ATREE (completed January 2017)

Madhura Niphadkar, ATREE (completed January 2017)

Somajita Paul, ATREE (completed February 2016)

### Committee member - ongoing

Iulie Fortin, Universität Hohenheim

Raksha Balakrishnan, Arizona State University

Sukanya Basu, University of Goettingen

Varsha Bhaskaran, University of Missouri

Nita Shashidharan, ATREE, Bangalore

Keerthi Sreelakshmi, Institute of Socio Economic Change, Bangalore

# Committee member – completed PhDs

Arvind Lakshmisha, University of Kassel, Germany (completed March 2024)

Shivanand Savatagi, TransDisciplinary Institute, Bangalore (completed March 2024)

Noemi Rota, University of Milano-Bicocca (completed January 2024)

Kuili Suganya, National Institute of Advanced Studies, Bangalore (completed June 2022)

Amit Kurien, ATREE, Bangalore (completed October 2021)

Ranjini Murali, Nature Conservation Foundation, Bangalore (completed September 2019)

Neesha Dutt, National Institute of Advanced Studies, Bangalore (completed January 2019)

N.S. Nalini, National Institute of Advanced Studies, Bangalore (completed May 2018)

Priti Gururaj, National Institute of Advanced Studies, Bangalore (completed April 2018)

Sanchayan Nath, Indiana University (completed April 2017)

Arundhati Das, National Institute of Advanced Studies, Bangalore (completed October 2015)

Savitha Swamy, National Institute of Advanced Studies, Bangalore (completed January 2013)

Kavitha Nair, National Institute of Advanced Studies, Bangalore (completed May 2012)

Sanchayeeta Adhikari, University of Florida (completed March 2011)

Pinki Mondal, University of Florida (completed December 2010)

### MSc. Advisees

Arjun Kamdar, National Centre for Biological Sciences (completed January 2021)

Sukanya Basu, TISS Hyderabad (completed June 2018)

Varsha Bhaskaran, TERI University (completed July 2017)

Divya Gopal, Greifswald University (completed September 2012)

Lionel Sujay Vailshery, Manipal University (completed May 2012)

Rajesh Uphadhyaya MN, Manipal University (completed May 2012)

Akshatha Murthy, Bangalore University (completed May 2010)

Sajid Pareeth, Stuttgart University (completed May 2009)

Vani Kaleeswari, PSG College Engineering and Technology Dindigul (completed June 2008)