

Dr. HITA UNNIKRISHNAN

Assistant Professor, Institute for Global Sustainable Development, The University of Warwick, United Kingdom

Affiliate, Urban Institute, The University of Sheffield, United Kingdom

Visiting Faculty: Centre for Climate Change and Sustainability, Azim Premji University, Bengaluru, India

Senior Fellow: Blue Range Labs, The Garrick Group in Water Development and Policy, based out of the Universities of Waterloo and Oxford; Canada, and the United Kingdom

External Affiliate: Ostrom Workshop, Indiana University, Bloomington, USA

Co-host: In Common Podcast

<https://www.sheffield.ac.uk/urban-institute/who-we-are/hita-unnikrishnan>

<https://www.bluerangelabs.org/people>

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Academic Appointments

7-17 April 2023	Visiting scholar, Cornell University, Ithaca, NY, USA
January 2023 - present	Senior Fellow, Blue Range Labs, The Garrick Group in Water Development and Policy
July 2021 - present	Research Associate, Urban Institute, The University of Sheffield, United Kingdom
February 2018 – November 2021	Newton International Fellow, Urban Institute, The University of Sheffield, United Kingdom
March 2020 – March 2021	Postdoctoral Researcher, Azim Premji University, Bengaluru
October 2017 - present	Visiting faculty, Azim Premji University, Bengaluru
August 2017 – November 2017	Assistant Professor (Conservation Science), The University of TransDisciplinary Health Sciences and Technology (TDU), Bengaluru
July 2016 – July 2017	Post-doctoral Research Associate, Azim Premji University, Bengaluru
July 2011 – July 2017	Research Scholar, Ashoka Trust for Research in Ecology and the Environment (ATREE), Bengaluru
August 2013 – October 2013	Visiting researcher, Stockholm Resilience Centre, Stockholm, Sweden
February 2011 – July 2011	Researcher, Centre for Education and Documentation (CED), Bengaluru
October 2010 – February 2011	Research Assistant, Centre for Social Markets, Bengaluru
June 2009 – October 2009	Intern, Arghyam, Bengaluru

International Science and Policy

2023-2024 Contributing author: World Cities Report, 2024. *Cities and Climate Action*, UN Habitat

- 2021-2022 Contributing author: World Cities Report, 2022. *Envisaging the Future of Cities*, UN Habitat
- 2023 Contributing author: World Bank report on the efficacy of Mountain Product Certification policies in the EU with specific reference to Romania

Research focus

- Urban political ecology
- Urban environmental history
- Institutional governance and collective action around urban commons
- Feminist and intersectional approaches to studying urban dynamics
- Urban social-ecological systems
- Epidemiology, public health, and urban planning

As applied to issues of social-ecological justice, equity, and sustainability in the context of water and community energy systems across Indian and African cities

Education

- January 2017 *Ph.D. Ashoka Trust for Research in Ecology and the Environment (ATREE), and Manipal University, Manipal.*
Thesis: The changing nature of social and ecological vulnerabilities within the context of urban lake social ecological systems in Bangalore
Advisors: Dr. Gladwin Joseph, and Dr. Harini Nagendra
<https://shodhganga.inflibnet.ac.in:8443/jspui/handle/10603/147546>
- May 2009 *M.Sc (Life Sciences) – I Rank*
 Mount Carmel College (Autonomous), Bangalore University, Bangalore
- May 2007 *B.Sc (Chemistry, Botany, and Zoology)*
 Jyoti Nivas College, Bangalore University, Bangalore

Keynotes and distinguished lectures

1. Summary keynote on *The future of the commons* as part of keynote panel organised by the WOW 7, Ostrom Workshop, Indiana University, Bloomington. June 2024.
2. Distinguished lecture for the NEWAVE Innovative Training Network, Brussels – June 2023.
3. Our commons futures. At the Regional Keynote Webinars of the *World Commons Week* organized by the International Association for the Study of the Commons (IASC), October 8th, 2020.
4. Sustainable urban ecologies: role of environmental education. Pre Congress-Seminar: 43rd Indian Social Science Congress, Central University, January 4th, 2020.

Awards

2017	Newton International Fellowship, British Academy (£99000)
2014	Noteworthy paper award for paper, ' <i>Historical Contestations around Urban Lake: Lessons learnt for lake management in Bangalore City</i> ', Presented at Student's Conference on Conservation Science (SCCS), Bangalore
2013	Professor Elinor Ostrom International Fellowship on Practice and Policy on the Commons
2009	International Climate Championships – British Council and TERI
2009	I Rank, M.Sc (Life Sciences), Mount Carmel College, Bengaluru
2007	Jyoti Award, Best Outgoing Science Student, Jyoti Nivas College, Bangalore
2004-2007	Bangalore Proficiency Awards – Botany and Zoology

Publications

Journal Articles – published

1. Epstein, G., Apetrei, C.I., Baggio, J., Chawla, S., Cumming, G., Gurney, G., Morrison, T., **Unnikrishnan, H.**, and Tomas, S.V. 2024. The problem of fit in complex social-ecological systems: using machine learning to uncover relationships between contexts, institutions, and outcomes in forest commons, *International Journal of the Commons* 18(1): 1-16.
2. Garrick, D., Balasubramanya, S., Beresford, M., Wutich, A., Gilson, G.G., Jorgensen, I., Brozović, N., Cox, M., Dai, X., Erfuth, S., Rimšaitė, R., Svensson, J., Jones, J.T., **Unnikrishnan, H.**, Wight, C., Villamayor-Tomas, S., and Mendoza, K.V. 2023. A systems perspective on water markets: barriers, bright spots, and building blocks for the next generation. *Environmental Research Letters* 18(3): 031001.
3. **Unnikrishnan, H.**, Gerullis, M.K., Cox, M., and Nagendra, H. 2023. Unpacking dynamics of diverse nested resource systems through a diagnostic approach. *Sustainability Science* 18: 153-180. – **4-star paper as judged in Sheffield Internal REF exercise.**
4. Urban ECA Collective, Ahmed, N., Baker, A.G., Bhattacharya, A., Cawood, S., Pacheco, A.J.C., Daniel, M.M., Grandi, M., Grimaldo-Rodríguez, C.O., Guma, P.K., Habermehl, V., Higgins, K., Lata, L.N., Liu, M., Luederitz, C., Macktoom, S., Macrorie, R., Melgaço, L., Morales, I., Noterman, E., Owen, G., Oyalowo, B., Purvis, B., Robin, E., Sawyer, L., Terruhn, J., **Unnikrishnan, H.**, Verbeek, T., Villegas, C., and Westman, L. 2022. Redefining the role of urban studies Early Career Academics in the post-COVID-19 university, *City*, 26:4, 562-586, DOI: 10.1080/13604813.2022.2091826.
5. Elias, M., Kandel, M., Mansourian, S., Meinzen-Dick, R., Crossland, M., Joshi, D., Kariuki, J., Lee, L.C., McElwee, P., Sen, A., Sigman, E., Singh, R., Adamczyk, E.M., Addoah, T., Agaba, G., Alare, R.S., Anderson, W., Arulingam, I., Bellis,

- S.G.K.V., Birner, R., Silva, S.D., Dubois, M., Duraisami, M., Featherstone, M., Gallant, B., Hakhu, A., Irvine, R., Kiura, E., Magaju, C., McDougall, C., McNeill, G.D., Nagendra, H., Nghi, T.H., Okamoto, D.K., Valencia, A.M.P., Pagella, T., Pontier, O., Post, M., Saunders, G.W., Schreckenber, K., Shelar, K., Sinclair, F., Gautam, R.S., Spindel, N.B., **Unnikrishnan, H.**, Wilson, G.t.g.n.a.N., and Winowiecki, L. 2022. Ten people-centred rules for socially sustainable ecosystem restoration. *Restoration Ecology* 30(4): e13574.
6. **Unnikrishnan, H.** and Nagendra, H. 2021. Building climate resilient cities in the global South: assessing city adaptation plans in India. *The Round Table*, 110(5), 575-586.
 7. Sen, A., **Unnikrishnan, H.**, and Nagendra, H. 2021. Restoration of Urban Water Commons: Navigating Social-Ecological Fault Lines and Inequities. *Ecological Restoration*, 39.
 8. Broto, V.C., Sudhira, H.S., and **Unnikrishnan, H.** 2021. Walk the pipeline: urban infrastructure landscapes in Bengaluru's long twentieth century. *International Journal of Urban and Regional Research (IJURR)* 45(4): 696-715.
 9. Epstein, G., Gurney, G., Chawla, S., Anderies, J., Baggio, G., **Unnikrishnan, H.**, Villamayor-Tomas, S., and Cumming, G.S. 2020. Drivers of compliance monitoring in forest commons. *Nature Sustainability* 4(5): 450-456.
 10. Sen A., **Unnikrishnan, H.**, and Nagendra, H. 2020. Imperilled waterscapes: the social- ecological transformation of lakes in Bengaluru. *Ecology, Economy and Society- the INSEE Journal* 3(2): 125-134.
 11. Cumming, G.S., Epstein, G.B., Anderies, J.M., Apetrei, C.I., Baggio, J., Bodin, O., Chawla, S., Clements, H.C., Cox, M., Egli, L., Gurney, G.G., Lubell, M., Magliocca, N., Morrison, T.H., Muller, B., Seppelt, R., Schluter, M., **Unnikrishnan, H.**, Villamayor-Tomas, S., and Weible, C. 2020. Advancing understanding of natural resource governance using the social-ecological systems framework: a post-Ostrom research agenda. *Current Opinion in Environmental Sustainability* 44: 26-34.
 12. **Unnikrishnan, H.**, Manjunatha, B., Nagendra, H., and Broto, V.C. 2020. Water governance and the colonial urban project: the Dharmambudhi lake in Bengaluru, India *Urban Geography*. <https://doi.org/10.1080/02723638.2019.1709756>.
 13. **Unnikrishnan, H.** 2019. Thinking beyond fairy lights and fountains: lessons from the waterscape of Bengaluru. *Ecology, economy, and Society: the INSEE Journal* 1(2):95-99).
 14. Mundoli. S., **Unnikrishnan. H.**, and Nagendra, H. 2018. Nurturing urban commons for sustainable urbanization. In *India's Contemporary Urban Conundrum – the IIC Quarterly* (pp. 250-262). Routledge, India.
 15. **Unnikrishnan, H.**, Mundoli, S., and Nagendra, H. 2017. Making water flow in Bengaluru: planning for the resilience of water supply in a semi-arid city. *Journal of Sustainable Urbanization, Planning and Progress* 2(1).
 16. Rust, N., Abrams, A., Challander, D.W.S., Chapron, G., Ghoddousi, A., Glikman, J.A., Gowan, C.H., Hughes, C., Rastogi, A., Said, A., Sutton, A., Taylor, N., Thomas, S., **Unnikrishnan, H.**, Webber, A.D., Wordingham, J., and Hill, C.M. 2017. Quantity does not always mean quality: the importance of qualitative social science in conservation research. *Society and Natural Resources*. DOI: 10.1080/08941920.2017.1333661.
 17. **Unnikrishnan, H.**, Sen, S., and Nagendra, H. 2017. Traditional water bodies

- and urban resilience: a historical perspective from Bengaluru, India. *Water History*. DOI: 10.1007/s12685-017-0199-9.
18. Mundoli, S., **Unnikrishnan, H.**, and Nagendra, H. 2017. The “Sustainable” in Smart Cities: Ignoring the Importance of Urban Ecosystems. *Decision*: DOI: 10.1007/s40622-017- 0152-x.
 19. **Unnikrishnan, H.**, Manjunatha, B., and Nagendra, H. 2017. Urban commons in a globalizing city: from past to present. *SEMINAR: Nature’s present*, 690: 63-67
 20. **Unnikrishnan, H.**, Mundoli, S., Manjunatha, B., and Nagendra, H. 2016. Down the drain: the tragedy of the disappearing urban commons of Bengaluru. *South Asian Water Studies* 5(3): 7-11
 21. **Unnikrishnan, H.**, Manjunatha, B., and Nagendra, H. 2016. Contested urban commons: Mapping the transition of a lake to a sports stadium in Bangalore. *International Journal of the Commons* 10(1): 265-293
 22. **Unnikrishnan, H.**, and Nagendra, H. 2015. Privatizing the commons: impact on ecosystem services in Bangalore’s lakes. *Urban Ecosystems* 18(2): 613-632
 23. **Unnikrishnan, H.**, and Nagendra, H. 2014. Unruly Commons: Contestations around Sampangi Lake in Bangalore. *NMML Occasional Paper, Perspectives in Indian Development New Series No.39*, Nehru Memorial Museum and Library, New Delhi, India
(http://www.nehrumemorial.nic.in/images/pdf/occasional/Hita_Unnikrishnan_HariniNagendra_for_web_21_Oct.pdf)
 24. Nagendra, H., **Unnikrishnan, H.**, and Sen, S. 2013. Villages in the City: Spatial and Temporal Heterogeneity in Rurality and Urbanity in Bangalore, India. *Land*, 3(1), 1-1

Journal articles – in review

1. **Unnikrishnan, H.**, and Broto, V.C. 2023. Challenges to co-production in cities: a review of the landscape of co-production across urban water, forestry, and energy. In review.
2. **Unnikrishnan, H.**, Broto, V.C., and Nagendra, H. 2023. The governmentalities of polycentricity: urban social-ecological system governance and the creation of environmental subjects in colonial Mysore. In review with *Annals of the American Association of Geographers*.

Journal Articles – planned and in preparation

1. The evolution of gender mainstreaming and intersectional perspectives within energy transitions – with V. Castan Broto. Target: *Nature Energy*
2. An ethnography of the process and politics of installing a community energy project and energy lab within an urban informal settlement in Chamanculo, Mozambique. With V. Castan Broto and colleagues from WP4 of the CESET project. Target: *Energy Research and Social Sciences*
3. Diagnosis, ‘un-diagnosis’, and liminal states in between – the sanitary city and the urban everyday: pandemics in the colonial 18th century and modern 21st century Bangalore. With H. Nagendra. Target: *Transactions of the Institute of*

British Geographers

Policy documents

1. Broto, V.C. Simpson, V., Robin, E., **Unnikrishnan, H.**, and Kirshner, J. 2022. Towards an intersectional perspective on community energy: work-in-progress. Working Paper. CESET Briefs. CESET (UKRI-GCRF), Sheffield, UK.
2. Arthur, A., DeSousa C., Broto, V.C., Howe, L., Makhoul, R., Fumo, N., Niatiniane, C., Dinis, T., and **Unnikrishnan, H.** 2022. Gender Equality and Social Inclusion Seal (GESIS): a norm regulating the implementation of GESI in Mozambique's energy sector. White Paper.

Book chapters

1. **Unnikrishnan, H.** 2024. The powers that be. *Forthcoming* in edited volume on Intersectionality in East Africa.
2. **Unnikrishnan, H.**, and Broto, V.C. 2024. Where is the community in community energy systems? *Forthcoming* in Broto, V.C. (eds) *Community Energy Systems and Sustainable Energy Transitions in Ethiopia, Malawi, and Mozambique*, Routledge.
3. **Unnikrishnan, H.**, Manjunatha, B., and Nagendra, H. 2023. Changing availability and access to ecosystem services from urban commons in a fast-growing Indian city. *Forthcoming*. In Rangarajan, M., and Sarkar, R. (eds) *Nature's present*. Oxford India publications.
4. **Unnikrishnan, H.**, and Nagendra, H. 2020. Quenching a city's thirst: the shifting waters of Bangalore. In Quinn J. (eds) *Anthromes, Cities, and Encyclopedia of the World's Biomes*. Elsevier. <https://doi.org/10.1016/B978-0-12-409548-9.12425-X>.
5. **Unnikrishnan, H.**, Manjunatha, B., and Nagendra, H. 2019. Lost glory: bringing the past to life around the Sri Kanteerava Stadium. In Iyer, M. eds. *Discovering Bengaluru: History, Neighbourhood, Walks*. Indian National Trust for Art and Cultural Heritage, Bengaluru.
6. Mundoli, S., **Unnikrishnan, H.**, and Nagendra, H. 2019. Urban commons of the global south: using multiple frames to illuminate complexity. In Hudson, B., J. Rosenbloom, and D. Cole (eds). *The Routledge Handbook of the Study of the Commons*, Routledge Publications.
7. **Unnikrishnan, H.**, Broto, V.C., and Nagendra, H. 2018. Producing collaborative sustainable urban development: experiences of water management in urban India. In Metzger, J., and Lindblad, J. (eds). *Dilemmas of Sustainable Urban Development: A View from Practice*.
8. **Unnikrishnan, H.**, Manjunatha, B., and Nagendra, H. 2017. Bonds that divide urbanization and the erosion of the commons. In *Reframing the environment: resources, risk, and resistance in neoliberal India*. Routledge Taylor and Francis.

Podcasts and videos

1. Reimagining narratives of death and extinction with Dr. Sarah Bezan. **Host**. In Common Podcast, 16th January 2023.

- <https://www.incommonpodcast.org/podcast/112-reimagining-narratives-of-death-and-extinction-with-dr-sarah-bezan/>
2. Science and practice #5: Radical alternatives to development with Ashish Kothari. **Co-hosted with Cox, M.** In Common Podcast, 11th January 2023. <https://www.incommonpodcast.org/podcast/science-and-practice-5-radical-alternatives-to-development-with-ashish-kothari/>
 3. The Surrounds with Abdou Maliq Simone. **Host.** In Common Podcast, 24th October 2022. <https://www.incommonpodcast.org/podcast/106-the-surrounds-with-abdoumaliq-simone/>
 4. Commoning with David Bollier. **Co-hosted with Cox, M.** In Common Podcast, 1st August 2022. <https://www.incommonpodcast.org/podcast/101-commoning-with-david-bollier/>
 5. Science and Practice #3: Stories of a chronicler with Arati Kumar Rao. **Co-hosted with Cox, M.** In Common Podcast, 4th July 2022. <https://www.incommonpodcast.org/podcast/science-and-practice-3-stories-of-a-chronicler-with-arati-kumar-rao/>
 6. A biography of water with Giulio Boccaletti. **Co-hosted with Garrick, D.** In Common Podcast, 13th June 2022. <https://www.incommonpodcast.org/podcast/098-a-biography-of-water-with-giulio-boccaletti/>
 7. Institutional diversity and the evolution of water markets with Dustin Garrick. **Co-hosted with Cox, M.** In Common Podcast, 23rd May 2022. <https://www.incommonpodcast.org/podcast/096-institutional-diversity-and-the-evolution-of-water-markets-with-dustin-garrick/>
 8. Histories of disease and its links to urban planning with Aditya Ramesh. **Host.** In Common Podcast, 23rd March 2022. <https://www.incommonpodcast.org/podcast/090-histories-of-disease-and-its-links-with-urban-planning/>
 9. Environmental history with Mahesh Rangarajan. **Host.** In Common Podcast, 7th February 2022. <https://www.incommonpodcast.org/podcast/086-environmental-history-with-mahesh-rangarajan/>
 10. NI #6: Enabling infrastructures of care in academia with Ramya Ravi. **Co-hosted with Molla, N.** In Common Podcast, 7th December 2021. <https://www.incommonpodcast.org/podcast/ni6-enabling-infrastructures-of-care-in-academia-with-ramya-ravi/>
 11. NI #5: Opening Pandora's box with Malini Ranganathan. **Co-hosted with Gerullis, M., and Whittaker, D.** In Common Podcast, 18th October 2021. <https://www.incommonpodcast.org/podcast/ni-5-opening-pandoras-box-with-malini-ranganathan/>
 12. NI #4: Building interdisciplinary collaborations with Georgina Cundill Kemp and Praneeta Mudaliar. **Co-hosted with Gerullis, M., and Whittaker, D.** In Common Podcast. 4th October 2021. <https://www.incommonpodcast.org/podcast/ni4-building-interdisciplinary-collaborations-with-georgina-cundill-kemp-and-praneeta-mudaliar/>
 13. NI #3: Negotiating interdisciplinary environments with Nanda Wijerman. **Co-hosted with Gerullis, M., and Whittaker, D.** In Common Podcast, 29th

- September 2021. <https://www.incommonpodcast.org/podcast/ni-3-negotiating-interdisciplinary-environments-with-nanda-wijermans/>
14. NI #2: Working with disciplinary traditions with Vanesa Castán Broto and Jennifer Vanos. **Co-hosted with Gerullis, M., and Whittaker, D.** In Common Podcast, 21st September 2021. <https://www.incommonpodcast.org/podcast/ni-2-working-with-disciplinary-traditions-with-vanesa-castan-broto-and-jennifer-vanos/>
 15. Introducing Navigating Interdisciplinarity #1 with Svenja Hippel and Juan Nicolas Hernandez. **Co-hosted with Gerullis, M., and Whittaker, D.** In Common Podcast, 13th September 2021. <https://www.incommonpodcast.org/podcast/introducing-navigating-interdisciplinarity-1/>
 16. Commoning #6 The Urban Commons. **Interviewee.** In Common Podcast, 3rd May 2021. <https://www.incommonpodcast.org/podcast/commoning-6-the-urban-commons/>
 17. PECS #5: Historical analysis of social-ecological systems with Hita Unnikrishnan. PECS Methods Webinar, March 10th, 2020. <https://www.incommonpodcast.org/podcast/pecs-5-historical-analysis-of-social-ecological-systems-with-hita-unnikrishnan/>
 18. **Unnikrishnan, H.** 2020. A walk from a lake through a stadium. Webinar organized by *INTACH Bangalore Chapter*. 08th April. <https://www.youtube.com/watch?v=82e0CeswoH4&t=1464s>
 19. Tracing colonial legacy of water bodies in the city to the present day: Interview at the Radio-Active 90.4MHz for World Water Day, 2017 - 22nd March https://radioactivecr.wordpress.com/2017/03/22/worldwaterday-tracing-colonial-legacy-of-water-bodies-in-the-city-to-the-present-day-hita-unnikrishnan-hita_auk-with-radioactive90_4/

Popular articles

1. **Unnikrishnan, H.** and H. Nagendra 2024. How Bengaluru's lakes disappeared. In *The Indian Express*. May 8th. (https://indianexpress.com/article/opinion/columns/bengaluru-water-crisis-water-scarcity-deccan-hills-agrarian-economy-9281769/?fbclid=IwZXhobgNhZWwBMQABHWEwjpFFbDx3YEK2c-Ke5wKt_NmslebIgvKfWxl9kE4NCzIIIj7JIROinA_aem_AaxtI9RNTWs4HD33zKOY3DEuGlv3d4AbahWESKanwuZWeuFAxZF5ltoA-4zmlxgm38E)
2. **Unnikrishnan, H.** 2021. What's early about early-career? In Common Podcast Blog. <https://www.incommonpodcast.org/whats-early-about-early-career/>
3. **Unnikrishnan, H.,** and Nagendra, H. 2019. The lake that became a bus terminus. *Arcadia*, Spring 2019 (2) - *Arcadia Collection: Water Histories*
4. **Unnikrishnan, H.,** and Nagendra, H. 2018. A picture we wished was 100 words, but in fact only a few. In *The Nature of Cities*. <https://www.thenatureofcities.com/2018/10/02/picture-wished-worth-1000-words- fact/>
5. **Unnikrishnan, H.,** and Nagendra, H. 2018. The lake that became a sports stadium.

Arcadia Autumn 2018 (23) - Arcadia Collection: Water Histories.

6. **Unnikrishnan, H.** Nagendra, H., and Broto, V.C. 2018. India's colonial legacy almost caused Bangalore to run out of water. *The Conversation*, 20 June. <https://theconversation.com/indias-colonial-legacy-almost-caused-bangalore-to-run-out-of-water-98494>.
7. **Unnikrishnan, H.**, and Nagendra, H. 2018. The lost lakes of Bangalore. *Arcadia Spring* 2018 (13).
8. **Unnikrishnan, H.**, and Nagendra, H. 2018. From pulley to pipe: the decline of the wells of Bangalore. *Arcadia Spring* 2018 (5).
9. **Unnikrishnan, H.**, and Nagendra, H. 2017. Sampangi lake: forgotten histories of fluid landscapes. In *JLR Explore*, January 15th. <http://jlrexplre.com/explore/from-the-field/sampangi-lake-forgotten-histories-of-fluid-landscapes>
10. **Unnikrishnan, H.** 2016. Urban planning and urban commons. In the *Global Roundtable for The Nature of Cities*, November. (<https://www.thenatureofcities.com/2016/11/06/resilience-isnt-only-about-infrastructure-how-can-we-better-support-community-based-environmental-stewardship-in-readiness-response-and-recovery-from-disturbance/>)
11. Nagendra, H., and **Unnikrishnan, H.** 2016. Rediscovering history: the saga of Sankey tank. In *The Hindu*, 1st February.
12. Nagendra, H., and **Unnikrishnan, H.** 2016. Deploying nature in war. In *The Hindu*, 18th January.
13. **Unnikrishnan, H.** and Nagendra, H. 2015. *Bengaluruina Baavigalu, kalyanigala kanmare* (Bengaluru's disappearing open wells and kalyanis). In the *Prajavani*, 1st August.
14. **Unnikrishnan, H.**, and Nagendra, H. 2015. *Sankey kere Soundaryavu savaalu* (Sankey's tank: from water reservoir to biodiversity hub). In the *Prajavani*, 31st July.
15. Mundoli, S., **Unnikrishnan, H.**, Manjunatha, B., and Nagendra, H. 2015. "Bellanduru: Ondu Kere, Halavaaru Arthagalu" (Bellandur: One lake, many meanings). In *Prajavani*, 30th July.
16. **Unnikrishnan, H.**, and Nagendra, H. 2015. Open wells and urban resilience. In *The Nature of Cities*, 2nd July. <http://www.thenatureofcities.com/2015/07/02/open-wells-and-urban-resilience/>
17. **Unnikrishnan, H.**, and Nagendra, H. 2015. Open wells of Bengaluru; A city's water chronicles. In *The Hindu*, 25th June
18. Mundoli, S., **Unnikrishnan, H.**, Manjunatha, B., and Nagendra, H. 2015. The sacred lakes of Bengaluru: A city's water chronicles. In *The Hindu*, 24th June
19. **Unnikrishnan, H.**, Manjunatha, B., and Nagendra, H. 2015. Sampangi Lake: Lessons from History; A city's water chronicles. In *The Hindu*, 23rd June
20. **Unnikrishnan, H.** 2015. Rethinking urban waterfronts in India – a perspective from Bengaluru. In the *Global Roundtable for The Nature of Cities*, January. <http://www.thenatureofcities.com/2015/01/06/urban-water-fronts-have-typically-been-sites-of-heavy-development-and-often-are-sites-of-pollution-or-exclusive-access-but-they-have-enormous-potential-benefits-how-can-we-unlock-these-benefits-for/>
21. **Unnikrishnan, H.** 2013. Lakes in the Anthropocene, *GWSP Newsletter*

22. Hegde., S and **Unnikrishnan, H.** 2011. Finally Corporate Social Responsibility becoming a Mantra, *Deccan Herald*, 22nd August

Conferences and panels

1. **Unnikrishnan, H.**, and Gerullis, M. 2024. Integrating power into game theory. Panel co-organised for the WOW 7 Conference, Ostrom Workshop, Indiana University, Bloomington, June.
2. Gerullis, M., and **H. Unnikrishnan.** 2024. Integrating power into game theory. Paper presented at the WOW7 Conference, Ostrom Workshop, Indiana University, Bloomington, June.
3. **ECN Power Collective (inc. H. Unnikrishnan).** 2024. Power and the IADF. Panel co-organised for the WOW 7 Conference, Ostrom Workshop, Indiana University, Bloomington. June
4. Westman, L., **Unnikrishnan, H.**, and Dongo, L. 2023. Urban climate responses from the peripheries. Panel co-organized for the RGS-IBG International Conference, August.
5. Garrick, D., and **Unnikrishnan, H.** 2023. Boundary objects for moving beyond panaceas: engaging with diverse perspectives influencing social ecological systems research. Panel co-organised for IASC-2023, July.
6. Gerullis, M., and **Unnikrishnan, H.** 2023. Towards standardizing case studies in commons scholarship: a collective deliberation. Panel co-organized for IASC-2023, July.
7. **Unnikrishnan, H.**, and Gerullis, M. 2023. Advancing diagnostic approaches towards systematically studying SES transformations. Paper presented at IASC-2023, July.
8. Nagendra, H., and **Unnikrishnan, H.** 2023. Using panarchy to develop system wide perspectives on social ecological system transformations. Paper presented at IASC-2023, July.
9. **Unnikrishnan, H.**, Broto, V.C., and Nagendra, H. 2023. Intersectionality and Ostrom: a (re)interpretation of the Design Principles. Paper presented at IASC-2023, July.
10. Gerullis, M., and **Unnikrishnan, H.** 2023. Games and power: using game theory to untangle different theories of power. Paper presented at IASC-2023, July.
11. **Unnikrishnan, H.**, and Broto, V.C. 2022. Challenges to co-production in cities: a review of the landscape of co-production across urban water, forestry, and energy. Development Studies Association Conference, July.
12. **Unnikrishnan, H.**, and Nagendra, H. 2021. Polycentricity, perceptions, and markets: the governance of blue urban commons in colonial Mysore. WINIR workshop on Polycentricity and the Firm. 09th December.
13. Liu, J., **Unnikrishnan, H.**, and Fischer, B. 2020. A conceptual framework for research on property rights of urban natural resources and sustainability. Presented at *International Seminar in Environment and Society – Current challenges and pathways to change*. Institute of Social Sciences, Lisbon. 02-03, March. Lisbon.
14. Nagendra, H. Mundoli, S., and **Unnikrishnan, H.** 2019. India's Smart Cities: Sustainability Challenges for medium sized cities in the global south. Presented

- at the *RBS-IBG International Conference 2019*, Royal Geographic Society, 27- 30 August, London.
15. Anderies, J.M., Baggio, J., Bodin, O., Chawla, S., Clements, H., Cox, M., Cumming, G., Epstein, G., Gurney, G., **Unnikrishnan, H.**, Tomas, S.V. 2019. Sustainability archetypes in common property research. Presented at the *Workshop on the Ostrom Workshop: Governance: past, present, and future*. 19-21 June, Indiana University, Bloomington.
 16. **Unnikrishnan, H.**, Nagendra, H. and Broto, V.C. 2019. The political imaginary of scarcity and its impact on water management: an urban political ecology of water commons in Bangalore. Presented at the 17th IASC Global Conference – In defense of the commons: challenges, innovation, and action, Lima, Peru. July 1-5.
 17. **Unnikrishnan, H.**, Nagendra, H., and Broto, V.C. 2019. History, heterogeneities and exclusions – the Bengaluru story. Presented at the SESYNC funded workshop on *Modelling Ostromian Institutions*, at The National Socio-Environmental Synthesis Centre (SESYNC), The University of Maryland, USA. May 2nd.
 18. **Unnikrishnan, H.**, Nagendra, H., and Broto, V.C. 2018. When the past rears its head: technocratic visions of urban development and the co-opting of urban commons. In *1st IASC Virtual Conference*, November 12 - 30.
 19. **Unnikrishnan, H.**, and Nagendra, H. 2018. Participatory management of urban commons: the waterscape of Bengaluru, India. At the *People, Place and Policy 2018: Alternative urban futures for tackling social and spatial inequalities: a one-day conference*. Organized by People, Place and Policy Journal, Sheffield Hallam University, 27 June.
 20. **Unnikrishnan, H.**, Broto, V.C., and Nagendra, H. 2018. Producing collaborative sustainable urban development: experiences of water management in urban India. At *Difficult doings: investigating the challenging practice of sustainable urban development - International workshop* organized by KTH- Royal Institute of Technology, Sweden and The University of Cambridge at Clare College, Cambridge - 17-18 April.
 21. **Unnikrishnan, H.**, and Nagendra, H. 2017. Policies, landscape change, and ecosystem services: the nexus and its implications for urban resilience. In *Forum on Urban Resilience to Climate Change and Disaster Risk Reduction and Management Strategies*, Ecosystems Research and Development Bureau, Department of Environment and Natural Resources, Philippines, December 04-08.
 22. **Unnikrishnan, H.**, Manjunatha, B., Mundoli, S., and Nagendra, H. 2016. The changing nature of ecological and social vulnerabilities of an urban lake social-ecological system in Bengaluru. In *International Seminar on Poverty, Environment, and Sustainable Development Goals in Asia Pacific*, Institute for Social and Economic Change (ISEC), India. December 8-9.
 23. **Unnikrishnan, H.**, Manjunatha, B., and Nagendra, H. 2016. Bonds that divide: urbanization and the erosion of the commons. In *National Conference on Reframing the Environment: Resources, Risk and Resistance in Neoliberal India*, Mumbai University, India. January 21-22.
 24. Mundoli, S., **Unnikrishnan, H.**, and Nagendra, H. 2016. Commons that provide: multiple uses and vulnerabilities of Bengaluru's urban commons. In the *8th Biennial Conference on Urbanization and the Environment*, Indian Society for Ecological Economics, India. January 4 -6.

25. **Unnikrishnan, H.**, and Nagendra, H. 2015. Tales from long ago and why we need them to secure a resilient today. In *2015 International Conference on Green Development in Tropical Regions, Andalas University, Padang and Bukittingi, Indonesia*, October 28-31.
26. **Unnikrishnan, H.**, and Nagendra, H. 2015. Temporal Continuities in Governance of Urban Lake Commons and Effects on Ecosystem Services they provide: A case of Bangalore. Poster at *Student's Conference on Conservation Science (SCCS)-Cambridge*, Cambridge University, March 24-26.
27. Nagendra, H., and **Unnikrishnan, H.** 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, November 8.
28. **Unnikrishnan, H.**, and Nagendra, H. 2014. Historical Contestations around an Urban Lake: Lessons learnt for Lake Management in Bangalore City. In *Student's Conference on Conservation Science (SCCS)*, Bangalore, 25-28 September.
29. **Unnikrishnan, H.**, and Nagendra, H. 2014. Unruly Commons: Contestations around Sampangi Lake in Bangalore. In *Unruly Environments (Nehru Memorial Museum and Library – NMML)*, New Delhi, India, 13-14 February.
30. **Unnikrishnan, H.**, and Nagendra, H. 2013. Privatization of commons: Impacts on traditional users of provisioning and cultural ecosystem services. In *The Commons 2013- the 14th Global Conference of the International Association for the Study of Commons (IASC)*, Mt. Fuji, Japan, 03-07 June.
31. **Unnikrishnan, H.**, and Nagendra, H. 2013. A choice between cultural consumptive and the recreational: The impacts of privatization on lake systems in Bangalore City. In *Water in the Anthropocene (Global Water System Project –GWSP)*, Bonn, Germany, 21-24 May.
32. Nagendra, H., and **Unnikrishnan, H.** 2013. Heterogeneity in Access to Benefits: Fine Scale Challenges for Ecosystem Valuation and Prioritization. In *Diversitas EcoServices Meeting*, Paris, 28th March.
33. **Unnikrishnan, H.**, and Nagendra, H. 2012. Differences in land and Resource Use between Privatized and Non-Privatized Lakes: A Case Study of Bangalore. In *Urbio 2012 (Indian Institute of Technology –IIT)*, Mumbai, 8-12 October.
34. **Unnikrishnan, H.**, and Nagendra, H., 2012. Change: Patterns and Processes of a Lake System in Bangalore City. In *Biodiversity Asia 2012 (Society for Conservation Biology –SCB)*, Bangalore, 7-12 August.
35. **Unnikrishnan., H.** 2011. Rural-urban Transition and Vulnerability to Climate Change: a Case Study of a Village in Bengaluru. At *The Second National Conference on Climate Change (CSE, IIT-D and IIT-M)*, New Delhi, 5-6 November.
36. **Unnikrishnan, H.**, Gowrav, B.H. G., and Jathanha, S. 2006. Sustainable Decentralized Model for Solid Waste Management in Urban India. At a) *Sixth International Ecocity Conference (Project Agastya and Ecocity Builders)*, Bangalore 4-7 Dec; and b) *Lake 2006- Symposium on Environment Education and Ecosystem Conservation (Indian Institute of Science- IISc)*, Bangalore, 28-30 December 2006

Invited talks

1. **Unnikrishnan, H.** 2024. Diagnosis of Social Ecological Systems. Invited

- panellist at the annual Programme for Ecosystems Change and Society (PECS) conference, Montreal. August
2. **Unnikrishnan, H.** 2024. Climate Pluriverse. Comments on Climate Pluriverse Workshop organised by Department of Architecture, The University of Sheffield, June
 3. **Unnikrishnan, H.** 2023. Researching the global south. Training module for PhD candidates at the Departments of Geography and Urban Studies and Planning, The University of Sheffield, Dec. 2023.
 4. **Unnikrishnan, H.** 2023. Climate governance approaches. Guest lecture. Climate and Energy Transition Governance module, Masters Programme in the Governance of Sustainability. Leiden University, the Netherlands.
 5. **Unnikrishnan, H.** 2022. Socio-ecological systems, and histories of water infrastructure in Bengaluru. *Department of Environment and Geography, University of York, United Kingdom.* 4th October.
 6. **Unnikrishnan, H.** 2021. Cities, climate change and urban planning. Inaugural Lecture at symposium organized by IIIT, Delhi. 11th October.
 7. **Unnikrishnan, H.** 2020. Water governance and the colonial urban project. *The School of Geography Seminar Series, The University of Oxford.* 23rd November.
 8. **Unnikrishnan, H.** 2020. Panel discussion on “The Future of Social Ecological Systems Research” at the *IASC Early Career Networking Meeting* organized by the University of Bonn, University of Kassel, and the IASC-ECN. 06th October.
 9. **Unnikrishnan, H.** 2020. Governing the Commons and Environmental Justice. At *Governing the Commons – 30.* Virtual Conference organized by the Ostrom Workshop, Indiana University, Bloomington. 2nd October.
 10. **Unnikrishnan, H.** 2018. Urban social-ecological systems. Invited talk and workshop resource person at *A-Level Summer School for African, Caribbean, and Asian students organised by British Ecological Society*, Margham Park Field Centre, Newport, Wales, 9-13 July.
 11. **Unnikrishnan, H.** 2017. Nature’s past: the transformation of Sampangi lake in Bengaluru. Bengaluru Next- Review, Restore, and Design, Mount Carmel College, Bengaluru – Feb 28
 12. **Unnikrishnan, H.** 2017. A Journey through History, The story of Transformation of Sampangi Lake into Kanteerava Stadium. Lake walk organized for *Neralu: Bengaluru Tree Festival* – Feb 18
 13. **Unnikrishnan, H.** 2017. Trees in cities: effects on air pollution. Right to breathe clean air: one day training for child leaders – Feb 12
 14. **Unnikrishnan, H.** 2016. The sustainable in smart cities: ignoring the importance of urban ecosystems. Ecological Urbanism: Talk show and Panel Discussion organized by Web Design Lab and Agam Sei - 22 August
 15. **Unnikrishnan, H.** 2016. Heritage in the heart of the city – the Sampangi lake and what it is today. Lake walk organized by INTACH, Bengaluru – May 20
 16. Mundoli, S., **Unnikrishnan, H.**, and Nagendra, H. 2015). The “Sustainable” in Smart Cities: Ignoring the Importance of Urban Ecosystems. At the Expert’s Perspective: Unplanned and Uncontrolled Urbanization of the city of Bangalore, organized by the Indian Society of Landscape Architects (ISOLA), Bangalore Chapter – Nov 22
 17. **Unnikrishnan, H.** 2015. The lakes of Bengaluru: The basics, what we believe about them and what we don’t see... At Fields of View- Sep 23
 18. **Unnikrishnan, H.**, Manjunatha, B., Mundoli, S., and Nagendra, H. 2015.

Once upon a lake. At the Neev Academy – Sep 4

19. **Unnikrishnan, H.**, and Nagendra, H. 2015. Whose commons is it anyway? At the URBIS Dialogue 5: Citizen Participation and Stewardship: Whose Earth is it anyway, organized by ICLEI, Cities Biodiversity Center- Sep 3
20. **Unnikrishnan, H.** 2015. A Journey through History, The story of Transformation of Sampangi Lake into Kanteerava Stadium. Lake walk organized for *Neralu: Bengaluru Tree Festival* – Feb 14
21. **Unnikrishnan, H.** 2014. Green India, Clean India. Radio programme for *All India Radio (AIR) - Yuvavani*, Nov 21
22. **Unnikrishnan, H.** 2013. Youth and Environmental Conservation. Radio programme for *All India Radio (AIR) – Yuvavani*, 28 Feb
23. **Unnikrishnan, H.** 2012. Workshop on Urban Biodiversity for *Ashoka Green Plan It*, Bangalore, 23-24 July
24. **Unnikrishnan, H.** 2010. How to get political groups with short term horizons thinking on long term issues of combating climate change? Radio Program for *BBC World Services*
25. **Unnikrishnan, H.** 2009. It's Big Energy, Stupid! Radio Program for the *BBC World Services*, Dec 3.

Other environmental outreach

1. Was part of an informal discussion on energy efficiency in India with Mr. Gregory Barker, *Minister of state for Energy and Environment*, UK as part of the British delegation's visit in India, 2011.
2. Resource person, 2010 from the British Council for *The Hay Festival* a meeting of poets, Nobel Laureates and musicians for sharing of experiences. Trivandrum, 12-14 November.
3. **Unnikrishnan, H.** 2009. Emission Mitigation through Community based Energy Efficient Lighting Practices. Project for *International Climate Championship – British Council*. Achieved the implementation of the use of CFLs in the following localities in Bangalore city:
 - a. 500 homes in Rajendranagar BPL sector
 - b. 18 homes of the extremely marginalized in Parappana Agrahara
 - c. 110 homes in HSR layout
 - d. A total of **628** homes in Bangalore in various regions
4. Yatri on the *Tata Jagriti Yatra 2009*, A Yatra that seeks to promote enterprise led development through a train journey across the country with focus on role models that have worked on social enterprise
5. **Unnikrishnan, H.** 2008. Lake Rejuvenation and Restoration of Parappana Agrahara Lake, Bangalore. Project Coordinator for *Indian Youth Climate Network – Karnataka Chapter*
6. Conducted workshops between 2008-2009 on communicating about climate change effectively at:
 - a. Yenepoya School, Mangalore
 - b. Government High School and College Students, Vishakapatnam
 - c. Jyoti Nivas Degree College, Bangalore
 - d. Vishwa Jyoti College of Engineering, Moovatupuzha, Kerala

Grants received

- 2017 Newton International Fellowship – British Academy, hosted by Urban Institute, The University of Sheffield
- 2017 Travel grant: Forum on Urban Resilience to Climate Change and Disaster Risk Reduction and Management Strategies, Ecosystems Research and Development Bureau, Department of Environment and Natural Resources, Philippines, December 04-08.
- 2015 Travel grant from International Conference on Green Development in Tropical Regions, Andalas University, Padang and Bukittingi, Indonesia, October 28-31
- 2015 Edda Sehgal Travel Grant, Ashoka Trust for Research in Ecology, and the Environment, for Student's Conference in Conservation Science (SCCS) - March 24 – 26.
- 2013 Partial travel grant, Stockholm Resilience Centre, for Exchange program as a Visiting Scholar
- 2013 Travel grant, Foundation for Ecological Security (FES) and International Association for Study of the Commons (IASC), for The Commons 2013- the 14th Global Conference of the International Association for the Study of Commons (IASC), Mt. Fuji, Japan, 03-07 June
- 2013 Travel Grant, Global Water System Project (GWSP), for Water in the Anthropocene (Global Water System Project –GWSP), Bonn, Germany, 21-24 May.
- 2011-2017 Institutional Fellowship, Ashoka Trust for Research in Ecology and the Environment (ATREE).

Teaching

- October 2017 – present Online forum coordinator: Sustainability in Indian contexts: MOOC offered by Azim Premji University, Bengaluru.
- September 2018 – December 2019 Course instructor- Geo6016 – Introduction to GIS, Department of Geography, The University of Sheffield. Designed, handled, and evaluated modules on Historical GIS and Remote Sensing.
- August 2017 – November 2018 B.Sc Elective course: Nature in the city; M.Sc courses on Conservation Science, Environmental Management and Environmental Studies. Designed, handled, and evaluated these courses.
- January 2016 Designed, administered, and evaluated a master's module on Institutional Analysis and Development Framework (IAD) at Tata Institute for Social Sciences (TISS), Hyderabad, India.
- October 2015 Administered and evaluated a master's module on Social Ecological Systems at Tata Institute for Social Sciences (TISS), Hyderabad. India

October 2009 – Delivered and evaluated bachelor's modules on Botany,
October 2010 Biotechnology, and Environmental Science at Jyoti Nivas
College, Bangalore.

Masters Advisees

1. Mercy Towett, ECID, Department of Geography, The University of Sheffield. Passed with distinction.
2. Xiaojuan Hun, ECID, Department of Geography, The University of Sheffield. Passed with distinction.
3. Jonathan M D'Rozario, ECID, Department of Geography, The University of Sheffield – highest scorer for master's dissertation in Development and Planning for 2019.
4. Ririn Arianna Dewi, ECID, Department of Geography, The University of Sheffield – passed with distinction.

International Research Collaborations

1. 2021-present: Member, Working group on polycentricity and firms, Ostrom Workshop, Indiana University, Bloomington, USA.
2. 2020-present: Member, IASC-ECN Working group on Power and the Institutional Analysis and Development Framework (IADF)
3. 2020-2021: Member, IASC-ECN Working group on Informal Rules
4. 2020-2021: Coordinator, IASC-ECN Working group on Navigating Interdisciplinarity
5. 2017-2020: Member, SESYNC funded pursuit. Testing and extending Ostrom's frameworks: quantitative synthesis and modelling of social ecological dynamics.
<https://www.sesync.org/project/propose-a-pursuit/testing-and-extending-ostrom's-frameworks-quantitative-synthesis-and>
6. 2019 – present: Member, Polycentricity working group, Ostrom Workshop, Indiana University.
7. 2019 -2021: Member, Working Group on Property Rights of Urban Natural Resources and Sustainability, Ostrom Workshop, Indiana University, Bloomington.
8. 2019 – present: Member, PECS working group on Collaborative Governance of Social Ecological Systems

Professional services

1. **Journal reviewer:** *Nature Communications; International Journal of the Commons; Ambio; Environmental Conservation; Environment, Development, and Sustainability; Water History; Water Policy, Regional Environmental Change; Conservation and Society, Journal of Integrative Environmental Sciences; Ecological Economics; Climate and Development; Journal of Hydrology; Sustainability Science, International Journal of the Commons, Environmental Values, PLoS One, Springer book*

proposals; Cambridge University Press book proposals, Routledge book proposals, Agenda Publications book proposals

2. **Professional memberships and leadership**

- a) 2021-2023: Council member, Early Career Network (ECN) Representative, International Association for the Study of the Commons (IASC).
- b) 2022 – present: Member, American Association of Geographers.
- c) 2013 – present: Member, International Association for the Study of the Commons.

Conference Organising

1. IASC 2025, Member of the Program Committee
2. IASC 2023, World Commons Week, December 4-10.
3. IASC 2022, World Commons Week, November 4-10.
4. IASC-2021, Our Commons Future. Member of steering committee, Urban commons web conference track.
5. IASC Early Career Networking Meeting organized by the University of Bonn, University of Kassel, and the IASC-ECN. 05-06th October.

References

1. **Prof. Vanesa Castán Broto**, Professorial Fellow, Urban Institute, The University of Sheffield, The Wave, 2, Whitham Road, Sheffield S10 2AH, United Kingdom.
Email: v.castanbroto@sheffield.ac.uk
Phone number: +44 -7885730843
Relationship: Post-doctoral mentor
2. **Prof. Michael Cox**, Associate Professor, Department of Environmental Studies, Dartmouth College, New Hampshire, USA
Email: michael.e.cox@dartmouth.edu
Relationship: Long term collaborator
3. **Prof. Harini Nagendra**, Professor and Director. Centre for Climate Change and Sustainability, Azim Premji University, Bengaluru, India.
Email: harini.nagendra@apu.edu.in
Relationship: PhD mentor

