

# Sharif A. Mukul, PhD

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## Education

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- **PhD** (2016) in Natural Resources and Environmental Management: **University of Queensland**, Australia  
– *Thesis: Shifting cultivation in the upland secondary forests of the Philippines: biodiversity and carbon stock assessment, and ecosystem services trade-offs in land-use decisions*
- **M.Sc.** (2011) in Agricultural Development: **University of Copenhagen**, Denmark  
– *Thesis: Swidden cultivation among two Chepang communities in the central hill districts of Nepal: local perceptions and factors influencing change*
- **M.Sc.** (2010) in Tropical Forestry and Management: **Technische Universität Dresden**, Germany
- **M.Sc.** (2006) in Forestry: **Shahjalal University of Science and Technology**, Bangladesh  
– *Thesis: Ecological trade-offs between biodiversity conservation, agroforestry land-use, and management intensification - case study from Lawachara National Park, Bangladesh*
- **B.Sc. (Hons.)** (2005) in Forestry: **Shahjalal University of Science and Technology (SUST)**, Bangladesh

## Employment

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- **Research Assistant Professor** (June 2020 -): Department of Earth and Environment, Florida International University, Miami, USA;
- **Senior Research Fellow** (October 2018 -): Tropical Forests and People Research Centre, University of the Sunshine Coast, Australia;
- **Assistant Professor** (January 2017 - August 2019): Department of Environmental Management, Independent University, Bangladesh (IUB);
- **Postdoctoral Fellow** (September 2015 - December 2016): Tropical Forestry Group, SAFS, The University of Queensland, Australia;
- **Academic Supervisor** (July 2014 - October 2016): School of Geography, Planning and Environmental Management, The University of Queensland, Australia

## Other Professional Engagement

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- **Associate Editor** (2016-): *Journal of Applied Ecology* (British Ecological Society, Impact factor: 5.84), *Ecology and Evolution* (Wiley, IF: 2.39), *Small-scale Forestry* (Springer, IF: 1.45), *Sustainability* (IF: 2.58);
- **Advisor; Forests and Biodiversity** (2020-): Parliamentary Standing Committee on Ministry of Environment, Forest and Climate Change (MoEFCC), Government of Bangladesh;
- **Research Evaluation Committee Member** (2020-): Sustainable Forests and Livelihoods (SUFAL) Project (128 M USD worth World Bank funded project), Bangladesh Forest Department;
- **Review College Member** (2020-): British Ecological Society (UK);
- **Advisor; Nature-based Climate Solutions** (2019-): International Centre for Climate Change and Development (ICCCAD), Dhaka, Bangladesh;
- **Board of Trustee Member** (2019-): Bangladesh Institute of Social Research (BISR) Trust, Dhaka;
- **International Taskforce Member** (2019-): Refugees and Environmental Crisis Group;
- **Co-founder and Executive Director** (2007-): Centre for Research on Land-use Sustainability, Bangladesh

## Honors, Awards and Distinctions

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- **Council for American Overseas Research Centres** (2020): Travel Bursary (3,000 USD) to attend international conference on Rohingya refugee crisis held at University of California, Berkeley (USA);
- **Outstanding Peer-Reviewed Paper Award** (2019) by the Mississippi (USA) Chapter of the Wildlife Society;
- **Sentinels of Science Award** (2016) by Publons for peer review of scholarly publications;
- **IUFRO Student Award for Excellence in Forest Sciences** (2015) for outstanding academic achievement;
- **FLARE Network Best Publication Award** (2015): Awarded 3,000 USD by University of Michigan (USA);
- **American Geophysical Union** (2015): Travel Bursary (1,000 USD) to attend AGU Fall Meeting;
- **World Bank's Program on Forests (PROFOR)** (2015): Travel Bursary (3,500 USD) to attend COP21 in Paris, France;
- **The University of the Queensland, Australia** (2015): SAFS Travel Award, (1,775 AUD) for conference;
- **International Union for Forest Research Organizations** (2014): Travel Bursary (2,500 USD) to attend XXIV IUFRO World Congress in Salt Lake City, Utah, USA;
- **The University of the Queensland, Australia** (2014): SAFS Travel Award, (800 AUD) for conference;
- **Young Scientist Research Award** (2014) by the Commonwealth Forestry Association (UK);
- **Asia Pacific Network for Global Change Research** (2013): Travel Award (4,500 USD) to attend Earth System Governance Conference in Tokyo, Japan;
- **International Postgraduate Research Scholarship** (2012-2015) from the Australian Government;
- **Best Poster Award on Ecology and Ethics** (2012) at Euroleague Scientific Students Conference;
- **Environmental Change Institute, University of Oxford** (2012): Travel Bursary (2,500 £) to attend Planet under Pressure Conference in London, UK;
- **European Alliance on Agricultural Knowledge for Development** (2011): Travel Award (500 €) to attend 'Tropentag 2011' international conference held in Bonn, Germany;
- **International Union for Forest Research Organizations** (2010): Travel Bursary (4,500 USD) to attend XXIII IUFRO World Congress in Seoul, South Korea;
- **UK Department for International Development (DFID)** (2010): Travel Bursary (2,750 £) to attend 18<sup>th</sup> Commonwealth Forestry Conference in Edinburgh, UK;
- **Kyoto University (Japan)** (2010): Travel Bursary (150,000 ¥) to attend Urban Biodiversity and Design (URBIO) Conference in Nagoya, Japan;
- **South East Asia Rainforest Research Programme (SEARRP)** (2009): Travel Bursary, (2,500 USD);
- **European Union's Erasmus Mundus Scholarship on Sustainable Tropical Forestry** (2009-2011);
- **Seoul National University (Korea)** (2008): Travel Bursary (1,500 USD) to attend 1<sup>st</sup> International Conference on Traditional Forest Related Knowledge and Culture in Seoul, South Korea;
- **World Bioenergy Association (Sweden)** (2008): Travel Bursary (Amount: 2,500 €) to attend World Bioenergy Conference in Jonkoping, Sweden;
- **Association for Tropical Biodiversity and Conservation** (2008): Travel Bursary (1,200 USD) to attend ATBC Asia Conference in Kuching, Sarawak, Malaysia;
- **University Merit Scholarship** (2005) for Academic Excellence at Shahjalal Univ. of Sc. & Tec., Bangladesh

## Research Grants and Consultancies

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- 2020: PI, British Ecological Society (BES) Large Research Grant (19,740 GBP)  
– *Project: Measuring carbon stocks and fluxes across a successional and salinity gradient in Sundarbans - the world's largest mangrove forest*
- 2020: Co-PI, Asia Pacific Network for Global Change (Japan) Collaborative Regional Research Programme Grant (101,000 USD)

- Project: *Protecting ecosystems and livelihoods of the Sundarbans, a World Heritage Site: Assessing the impact of natural hazards on forest-based ecosystem services*;
- 2020: **Co-PI**, South Asian Network for Development and Environmental Economics (SANDEE) Research Grant (23,000 USD)
  - Project: *Impact of co-management program on forest restoration and livelihood enhancement of forest depended communities in Bangladesh*;
- 2018: Lead Researcher, ACIAR FLR Project Activity 2.6 (~200,000 AUD)
  - Project: *Developing geospatial model to monitor the impacts of Forest and Landscape Restoration*;
- 2019: Consultant, The World Bank Group (30,000 USD)
  - Project: *Biomass fuel demand and supply scenario analysis in Bangladesh*;
- 2019: Consultant, USAID and Action Against Hunger (5,000 USD)
  - Project: *Rapid environmental impact assessment of cash for work interventions among host communities in Cox's Bazar, Bangladesh*;
- 2019: Consultant, Asian Development Bank, Bangladesh (3,000 USD)
  - Project: *Environmental impact assessment of floating solar energy project in Bangladesh*;
- 2018: **PI**, Internal Research Grant, Independent University, Bangladesh (2,500 USD)
  - Project: *Forest carbon and biodiversity assessment in two protected areas of Bangladesh*;
- 2017-2019: National Forestry Expert and Steering Committee Member International Organization for Migration (IOM) and International Centre for Climate Change and Development (ICCCAD)
  - Project: *Monitoring Environmental Changes in Cox's Bazar following the Rohingya Influx (MECCRI)*
- 2017: **PI**, Internal Research Grant, Independent University, Bangladesh (2,000 USD)
  - Project: *Developing a framework for mapping threats to Bangladesh forest ecosystems*;
- 2016: Publications Grant, University of the Sunshine Coast, Australia (5,000 AUD);
- 2011: **PI**, Agricultural Development Research Grant (10,000 DKK)
  - Project: *Local adaptations of swidden farmers in central hill districts of Nepal*;
- 2010: Idea Wild (USA) Equipment Support Grant (1,500 USD);
- 2009: **PI**, The Rufford Foundation for Nature Conservation (UK) Research Grant (5,625 £)
  - Project: *Status, indigenous uses and population dynamics of disappearing medicinal flora in a biodiversity hotspot zone of north-eastern Bangladesh*;
- 2009: **PI**, British Ornithologists Union (UK) Research Grant (Amount: 920 £)
  - Project: *Assessing bird diversity in shade trees of tea gardens in greater Sylhet region, Bangladesh*;
- 2008: **PI**, British Ecological Society (UK) Ecological Research Support Grant (Amount: 2,160 £)
  - Project: *Status and importance of invasive alien plant species among local livelihoods and wildlife within two conservation area of north-eastern Bangladesh*;
- 2007: **PI**, The Explorers Club (USA) Youth Activity Fund (1,165 US\$)
  - Project: *Traditional forest practices of indigenous people: understanding the role in improved livelihoods and enhanced conservation*;
- 2006: **PI**, USAID Bangladesh (1,250 US\$)
  - Project: *Protected areas and rural livelihoods in north-eastern Bangladesh*

## Publications [Total citation: 2250, h-index: 24, i10-index: 39 (Google Scholar, August 2020)]

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- **Edited book and monograph:**

- Mukul, S.A. (ed.). Forthcoming. *Managing Forests for Biodiversity, Carbon and Livelihoods in Bangladesh*. Springer Nature, Netherlands.
- Mukul, S.A., Rashid, A.Z.M.M. (eds.). 2017. *Protected Areas: Policies, Management and Future Directions*. Nova Science Publishers, New York, 239 p (ISBN: 9781536106640).

– Mukul, S.A. 2010. *Bridging Livelihoods and Forest Conservation in Protected Areas: Field experience from Satchari National Park, Habiganj, Bangladesh*. VDM Verlag, Berlin, 116 p (ISBN: 978-3639281255).

• **Book chapters:**

– Mukul, S.A., Halim, M.A., Herbohn, J. 2020. Forest carbon stock and fluxes: distribution, biogeochemical cycles and measurement techniques. In: Leal Filho, W. et al. (eds.). *Life on Land, Encyclopedia of the UN Sustainable Development Goals*. Springer, Switzerland, doi: 10.1007/978-3-319-71065-5\_23-1.

– Ota, L., Mukul, S.A., Gregorio, N., Herbohn, J. 2020. Community based management of tropical forests: lessons learned and implications for sustainable forest management. In: Blaser, J., Hardcastle, P. (eds.), *Achieving Sustainable Management of Tropical Forests*. Burleigh Dodds, Cambridge, UK, doi: 10.19103/AS.2020.0074.24 .

– Mukul, S.A., Khan, M.A.S.A., Uddin, M.B. Forthcoming. Invasive alien species of Bangladesh. In: Pullaiah, T., Lelmini, M. (eds.), *Invasive Alien Species of the World*, Volume 2: Asia. Wiley International, USA.

– Mukul, S.A., Herbohn, J., Firn, J., Gregorio, N. Forthcoming. Carbon and biodiversity outcomes under divergent management scenarios in shifting cultivation landscapes in the upland Philippines. In: Cairns, M. (ed.), *Farmer Innovations and Best Practices by Shifting Cultivators in Asia-Pacific*. CAB International, UK.

– Mukul, S.A., Biswas, S.R., Rashid, A.Z.M.M. 2018. Biodiversity in Bangladesh. In: Pullaiah, T. (ed.). *Global Biodiversity and Conservation, Volume 1: Selected countries in Asia*. Apple Academic Press/CRC Press, Canada, pp. 93-107.

– Rashid, A.Z.M.M., Mukul, S.A. 2017. Managing protected areas in a changing world: New insights and opportunities. In: Mukul, S.A., Rashid, A.Z.M.M. (eds.), *Protected Areas: Policies, Management and Future Directions*. Nova Science Publishers, New York, USA, pp. 1-12.

– Rashid, A.Z.M.M., Craig, D., Mukul, S.A. 2017. Shifting paradigm of governance in the natural resource sector of Bangladesh: centralist to pluralistic approach in forest protected areas management. In: Mukul, S.A., Rashid, A.Z.M.M. (eds.), *Protected Areas: Policies, Management and Future Directions*. Nova Science Publishers, New York, USA, pp. 53-81.

– Mukul, S.A., Rashid, A.Z.M.M., Khan, N.A. 2017. Forest protected area systems and biodiversity conservation in Bangladesh. In: Mukul, S.A., Rashid, A.Z.M.M. (eds.), *Protected Areas: Policies, Management and Future Directions*. Nova Science Publishers, New York, USA, pp. 157-177.

– Mukul, S.A. 2014. Biodiversity conservation and ecosystem functions of traditional agroforestry systems. Case study from three tribal communities in and around Lawachara National Park, Bangladesh. In: Chowdhury, M.S.H. (ed.), *Forest Conservation in Protected Areas of Bangladesh: Policy and community development perspectives*. Springer, Berlin, Germany, pp. 171-179.

– Mukul, S.A. 2011. Mat weaving empowers women in rural villages of south-central Bangladesh and secures their livelihoods. In: Shackleton, S., Shackleton, C., Shanley, P. (eds.), *Non-Timber Forest Products in the Global Context*. Springer, Berlin, Germany, pp. 65-66.

– Mukul, S.A., Quazi, S.A. 2009. Communities in Conservation: Changing protected area management and enhanced conservation in Bangladesh. In: Leslie, R.N. (ed.), *The Future of Forests in Asia and the Pacific: Outlook for 2020*. Food and Agriculture Organization of the United Nations (FAO), Bangkok, Thailand, pp. 143-159.

– Uddin, M.B., Mukul, S.A. 2007. Improving Forest Dependent Livelihoods through NTFPs and Home Gardens: A case study from Satchari National Park. In: Fox, J., Bushley, B., Dutt, S., Quazi, S.A. (eds.). *Making Conservation Work: Linking rural livelihoods and protected areas in Bangladesh*. East-West Center, Hawaii, USA, pp 13-35.

• **Peer-reviewed journal articles:**

- Mukul, S.A., Huq, S., Herbohn, J., Seddon, N., Laurance, W.F. 2020. Saving the Sundarbans from development. *Science*, 368: 1198 (IF - 41.85).
- Mukul, S.A., Khan, M.A.S.A., Uddin, M.B. 2020. Identifying threats from invasive alien species in Bangladesh. *Global Ecology and Conservation*, 23: e01196 (Elsevier; IF - 2.53).
- Mukul, S.A., Byg, A. 2020. What determines indigenous *Chepang* farmers swidden land-use in central hill districts of Nepal? *Sustainability*, 12: 5326 (MDPI; IF - 2.58).
- Chazdon, R., Herbohn, J., Mukul, S.A., Gregorio, N., Ota, L., Harrison, R.L., Durst, P.B., Chaves, R.B., Pasa, A., Hallett, J.G., Neidel, J.D., Watssom, C., Gutierrez, V. 2020. Manila Declaration on Forest and Landscape Restoration: Making it Happen. *Forests*, 11: 685 (MDPI; IF - 2.22).
- Mukul, S.A., Herbohn, J., Firn, J. 2020. Rapid recovery of tropical forest diversity and structure after shifting cultivation in the Philippines uplands. *Ecology and Evolution*, 10: 7189-7211 (Wiley; IF - 2.39).
- Ota, L., Chazdon, R.L., Herbohn, J., Gregorio, N., Mukul, S.A., Wilson, S.J. 2020. Achieving quality forest and landscape restoration in the tropics. *Forests*, 11: 820 (MDPI; IF - 2.22).
- Mukul, S.A., Edwards, D.P., Fox, J. Forthcoming. Actively restore swidden fallow landscapes for biodiversity-carbon co-benefits. *Science* (IF - 41.85).
- Ota, L., Herbohn, J., Firn, J., Chazdon, R., Gregorio, N., Mukul, S.A., Viani, R. Forthcoming. Using leading and lagging indicators for forest and landscape restoration. *Journal of Applied Ecology* (Wiley, IF- 5.84).
- Bhattra, S., Pant, B., Laudari, H.K., Rai, R., Mukul, S.A. In review. Strategic pathways to scaling up forest and landscape restoration in Nepal's Terai. *Land Use Policy* (Elsevier; IF - 3.68).
- Mukul, S.A., Rahman, F., Jewel, M., Salam, M.A., Badruzzaman, M., Huq, S., Herbohn, J., Tallis, H. In review. Environmental impacts of Rohingya refugee crisis in Cox's Bazar, Bangladesh. *Proceedings of the National Academy of Sciences, USA* (IF - 9.41).
- Mukul, S.A., Herbohn, J., Firn, J., Ferraren, A., Congdon, R. In review. Limited role of shifting cultivation on soil carbon and nutrients turnover in regenerating tropical secondary forests. *Journal of Applied Ecology* (Wiley, IF- 5.84).
- Mukul, S.A., Herbohn, J., Holl, K., Tallis, H., Huang, C., Huq, S. In review. Is environment the missing link in humanitarian development? Lessons from Bangladesh. *Conservation Letters* (Wiley, IF - 6.77).
- Mukul, S.A., Pasa, A., Gregorio, N., Herbohn, J., Tripoli, R. In review. Projecting ecosystem services supply potential from forest and landscape restoration in Biliran island, the Philippines. *Ecosystem Services* (Elsevier, IF - 6.33).
- Seibold, S., Rammer, W., Hothorn, T., Ulyshen, M.D., Seidl, R., et al. In review. Deadwood decomposition mediated by insects influences global carbon fluxes. *Nature* (IF - 42.78).
- Slik, F.W., Murdjoko, A., Sanchez, A.C., Sultana, A., Azihou, A.F., et al. In review. Strong historical signal in the latitudinal gradient of tree diversity. *Science* (IF - 41.85).
- Liang, J., Reich, P.B., Crowther, T.W., Hui, C., Pijanowski, B.C., et al. In review. Fine-scale mapping of global tree species diversity in the Anthropocene. *Science* (IF - 41.85).
- Mukul, S.A., Ho, Y-S. In review. Publication Performance and Trends in Mangrove Forest: A Bibliometric Analysis. *Science of the Total Environment* (Elsevier; IF - 6.55).
- Ahmed, S., Kayes, I., Shahriar, S.A., Kabir, M.M., Salam, M.A., Mukul, S.A. 2020. Soil salinity and nutrients pattern along a distance gradient in coastal region. *Global J. Environ. Sci. Manage.*, 6: 59-72.

- **Mukul, S.A.**, Huq, S., Herbohn, J., Nishat, A., Rahman, A., Amin, R., Ahmed, F.U. 2019. Rohingya refugees and the environment. *Science*, 364: 138 (IF - 41.85). [Featured in: [The Daily Star](#), [Eco Business](#) etc.]
- Steidinger, B.S., Crowther, T.W., Liang, J., Van Nuland, M.E., Werner, G.D.A., Reich, P.B., Nabuurs, G., de-Miguel, S., Zhou, M., Picard, N., Herault, B., Zhao, X., Zhang, C., Routh, D., Abegg, M., Yao, Y.A., Alberti, G., Zambrano, A.A., Alvarez-Davila, E., Alvarez-Loayza, P., Alves, L.F., Ammer, C., Antón-Fernández, C., Araujo-Murakami, A., Arroyo, L., Avitabile, V., Aymard, G., Baker, T., Bałazy, R., Banki, O., Barroso, J., Bastian, M., Bastin, J.F., Birigazzi, L., Birnbaum, P., Bitariho, R., Boeckx, P., Bongers, F., Bouriaud, O., Brancalion, P., Brandl, S., Brearley, F.Q., Brienen, R., Broadbent, E., Bruelheide, H., Bussotti, F., Gatti, R.C., Cesar, R., Cesljar, G., Chazdon, R., Chen, H.Y.H., Chisholm, C., Cienfuegos, E., Clark, C.J., Clark, D., Colletta, G., Condit, R., Coomes, D., Valverde, F.C., Corral-Rivas, J.J., Crim, P., Cumming, J., Dayanandan, S., de Gasper, A.L., Decuyper, M., Derroire, G., DeVries, B., Djordjevic, I., Iêda, A., Dourdain, A., Obiang, N.L.E., Enquist, B., Eyre, T., Fandohan, A.B., Fayle, T.M., Feldpausch, T.R., Finér, L., Fischer, M., Fletcher, C., Fridman, J., Frizzera, L., Gamarra, J.G.P., Gianelle, D., Glick, H.B., Harris, D., Hector, A., Hemp, A., Hengeveld, G., Herbohn, J., Herold, M., Hillers, A., Coronado, E.N.H., Huber, M., Hui, C., Hyun, K.J., Joly, C.A., Jucker, T., Karminov, V., Kartawinata, K., Kearsley, E., David Kenfack, Kennard, D., Kepfer-Rojas, S., Keppel, G., Khan, M.L., Killeen, T., Kim, H.S., Kitayama, K., Köhl, M., Korjus, H., Kraxner, F., Laarmann, D., Lang, M., Lewis, S., Lu, H., Lukina, N., Maitner, B., Malhi, Y., Marcon, E., Marimon, B., Marimon-Junior, B.H., Marshall, A.R., Martin, E., Martynenko, O., Meave, J.A., Melo-Cruz, O., Mendoza, C., Merow, C., Mendoza, A.M., Moreno, V., **Mukul, S.A.**, Mundhenk, P., Nava-Miranda, M.G., Neill, D., Neldner, V., Nevenic, R., Ngugi, M., Niklaus, M., Oleksyn, J., Ontikov, P., Ortiz-Malavasi, E., Pan, Y., Paquette, A., Gutierrez, A.P., Parfenova, E., Park, M., Parren, M., Parthasarathy, N., Peri, P.L., Pfautsch, S., Phillips, O., Piedade, M.T., Piotto, D., Pitman, N.C.A., Polo, I., Poorter, L., Poulsen, A.D., Poulsen, J.R., Pretzsch, H., Arevalo, F.R., Restrepo-Correa, Z., Rodeghiero, M., Rolim, S., Roopsind, A., Rovero, F., Rutishauser, E., Saikia, P., Saner, P., Schall, P., Schelhaas, M.J., Schepaschenko, D., Scherer-Lorenzen, M., Schmid, B., Schöngart, J., Searle, E., Seben, V., Serra-Diaz, J.M., Shvidenko, A., Silva-Espejo, A., Silveira, M., Singh, J., Sist, P., Slik, F., Sonké, B., Souza, A.F., Stereńczak, J.K., Svenning, J.C., Svoboda, M., Targhetta, N., Tchebakova, N., Steege, H., Thomas, R., Tikhonova, E., Umunay, P., Usoltsev, V., Valladares, F., van der Plas, F., Do, T.V., Martinez, R.V., Verbeeck, H., Viana, H., Vieira, S., von Gadow, K., Wang, H.F., Watson, J., Westerlund, B., Wiser, S., Wittmann, F., Wortel, V., Zagt, R., Niedzwiecki, T.Z., Zhu, Z.X., Zo-Bi, I.C., Peay, K.G. 2019. Climatic controls of decomposition drive the global biogeography of forest tree symbioses. *Nature*, 509: 404-408 (IF - 42.78).
- **Mukul, S.A.**, Alamgir, M., Sohel, M.S.I., Pert, P.L., Turton, S.M., Herbohn, J., Khan, M.S.I., Ali Reza, A.H.M., Munim, S.A., Laurance, W.F. 2019. Combined effects of climate change and sea level rise project dramatic habitat loss of critically endangered Bengal tiger in the Bangladesh Sundarbans. *Science of the Total Environment*, 663: 830-840 (Elsevier; IF - 6.55).  
[Featured in: [CNN](#), [The New York Times](#), [Smithsonian Magazine](#), [Mongabay](#), [The Daily Star](#), [Hindustan Times](#), [Times of India](#), [Prothom Alo](#), [Bangladesh Monitor](#), [The Observer](#), [The Independent](#), [Dhaka Tribune](#), [Daily Sun](#), [Financial Express](#) etc.]
- **Mukul, S.A.**, Sohel, M.S.I., Herbohn, J., Inostroza, L., König, H. 2017. Integrating ecosystem services supply potential in protected area management: A Bangladesh case study. *Ecosystem Services*, 26: 355-364 (Elsevier; IF - 6.33).
- **Mukul, S.A.**, Saha, N. 2017. Conservation benefits of tropical multifunctional land-uses in and around a forest protected area of Bangladesh. *Land*, 6: 44-55 (MDPI; IF – 2.43).
- Ripple, W.J., Wolf, C., Newsome, T.M., Galetti, M., Alamgir, M., Crist, E., Mahmoud, M.I., Laurance, W.F., et al. 2017. World Scientists’ Warning to Humanity: A Second Notice. *BioScience*, 67: 1026–1028 (Oxford University Press; IF: 8.28).

- **Mukul, S.A.**, Herbohn, J., Firn, J. 2016. Tropical secondary forests after shifting cultivation are important carbon sink in the upland Philippines. *Scientific Reports*, 6: 22483 (Springer Nature, UK; IF - 3.99).  
[Featured in: [AsianCorrespondent](#), [scimex](#), [UQNews](#) , [CIFOR](#), [CTFSForestGeo](#) etc.]
- **Mukul, S.A.**, Herbohn, J., Firn, J. 2016. Co-benefits of biodiversity and carbon sequestration from regenerating secondary forests in the Philippines uplands: implications for forest landscapes restoration. *Biotropica*, 48: 882-889 (Wiley; IF - 2.09).
- **Mukul, S.A.**, Herbohn, J. 2016. The impacts of shifting cultivation on secondary forests dynamics in tropics: a synthesis of the key findings and spatio temporal distribution of research. *Environmental Science & Policy*, 55: 167-177 (Elsevier; IF - 4.77).
- **Mukul, S.A.**, Rashid, A.Z.M.M., Uddin, M.B., Khan, N.A. 2016. Role of non-timber forest products in sustaining forest based livelihoods and rural households' resilience capacity in and around protected area: a Bangladesh study. *Journal of Environmental Planning and Management*, 59: 628-642 (Taylor & Francis; IF - 2.09).
- Pavel, M.A.A., **Mukul, S.A.**, Uddin, M.B., Harada, K., Khan, M.A.S.A. 2016. Effects of stand characteristics on tree species richness in and around a conservation area of northeast Bangladesh. *Journal of Mountain Science*, 13: 1085-1095 (Springer; IF - 1.55).
- Alamgir, M., **Mukul, S.A.**, Turton, S.M. 2015. Modelling spatial distribution of critically endangered Asian elephant and Hoolock gibbon in Bangladesh forest ecosystems under a changing climate. *Applied Geography*, 60: 10-19 (Elsevier; IF - 3.51).
- Sohel, M.S.I., **Mukul, S.A.**, Burkhard, B. 2015. Landscape's capacities to supply ecosystem services in Bangladesh: A mapping assessment for Lawachara National Park. *Ecosystem Services*, 12: 128-135 (Elsevier; IF - 6.33).
- Sohel, M.S.I., **Mukul, S.A.**, Chicaro, L. 2015. A new ecohydrological approach for ecosystem service provisions and sustainable management of aquatic ecosystems in Bangladesh. *Ecohydrology & Hydrobiology*, 15: 1-12 (Elsevier; IF - 1.88).
- **Mukul, S.A.**, Herbohn, J., Rashid, A.Z.M.M., Uddin, M.B. 2014. Comparing the effectiveness of forest law enforcement and economic incentive to prevent illegal logging in Bangladesh. *International Forestry Review*, 16: 363-375 (UK; IF - 1.72).
- **Mukul, S.A.**, Tito, M.R., Munim, S.A. 2014. Can homegardens help save forests in Bangladesh? Domestic biomass fuel consumption patterns and implications for forest conservation in south-central Bangladesh. *International Journal of Research on Land-use Sustainability*, 1: 18-25.
- Cowdhury, M.S.H., Gudmundsson, C., Izumiyama, S., Koike, M., Nazia, N., Rana, M.P., **Mukul, S.A.**, Muhammad, N., Redowan, M. 2014. Community attitudes towards forest conservation programs through collaborative protected area management in Bangladesh. *Environment, Development and Sustainability*, 16: 1235-1252 (Springer, IF - 2.19).
- **Mukul, S.A.**, Biswas, S.R., Rashid, A.Z.M.M., Miah, M.D., Kabir, M.E., Uddin, M.B., Alamgir, M., Khan, N.A., Sohel, M.S.I., Chowdhury, M.S.H., Rana, M.P., Khan, Rahman, S.A., M.A.S.A., Hoque, M.A. 2014. A new estimate of carbon for Bangladesh forest ecosystems with their spatial distribution and REDD+ implications. *International Journal of Research on Land-use Sustainability*, 1: 33-41.
- Uddin, M.B., Steinbauer, M.J., Jentsch, A., **Mukul, S.A.**, Beierkuhnlein, C. 2013. Do environmental attributes, disturbances and protection regime determine the distribution of exotic plant species in Bangladesh forest ecosystems? *Forest Ecology & Management*, 303: 72-80 (Elsevier; IF - 3.17).

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- **Mukul, S.A.**, Rana, M.P. 2013. The trade of Bamboo (*Graminae*) and its secondary products in a regional market of southern Bangladesh: status and socio-economic significance. *International Journal of Biodiversity Science, Ecosystem Services & Management*, 9: 146-154 (Taylor & Francis).
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- **Mukul, S.A.** 2011. Changing consumption and marketing pattern of non-timber forest products in a competitive world: case study from an urban area of north-eastern Bangladesh. *Small-scale Forestry*, 10: 273- 286 (Springer; IF - 1.45).
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- Uddin, M.B., **Mukul, S.A.**, Khan, M.A.S.A., Chowdhury, M.S.H., Uddin, M.S., Fujikawa, S. 2006. Indigenous management practices of Hogla (*Typha elephantina* Roxb.) in local plantations of floodplain areas of Bangladesh. *Journal of Subtropical Agricultural Research & Development*, 4: 114-119.

• **Other reports and working paper:**

- Tallis, H., Huang, C., Herbohn, J., Holl, K., **Mukul, S.A.**, Morshed, K.A.M. 2019. Steps toward Forest Landscape Restoration in the context of the Rohingya influx: Creating opportunities to advance environmental, humanitarian, and development progress in Bangladesh. CGD Policy Paper 148, Centre for Global Development and The Nature Conservancy, Washington DC, USA, 35 p.
- Tallis, H., Huang, C., Herbohn, J., Holl, K., **Mukul, S.A.**, Morshed, K.A.M. 2019. Creating opportunities for Rohingya refugees and hosts through Forest Landscape Restoration. CGD Policy Brief, Centre for Global Development and The Nature Conservancy, Washington DC, USA.
- Thompson, E., Pradhan, D.K., Jovanovic, M., Jawo, T.O., Andrae, T., **Mukul, S.A.** 2010. Development of a community market in the Wondo Genet Integrated Watershed Management Area, Ethiopia. Technical Report to TU Dresden, Germany, 23 p.
- **Mukul, S.A.** 2007. Biodiversity conservation and sustainable development in Bangladesh: An overview of the present status, management problems and future prospects. Shahjalal University of Science and Technology, Bangladesh, 21 p.

– **Mukul, S.A.** with 25 others. 2007. A 10 Years' Management Plan for the Fasiakhali Range of Cox's Bazar North Forest Division (Duration: 2007- 08 to 2016-17). Prepared for the partial fulfillment of B.Sc. (Hons.) degree on Professional Forestry. Shahjalal University of Science and Technology, Sylhet, Bangladesh. xiii + 166 p.

• **Op-Ed, newspaper and newsletter articles:**

– **Mukul, S.A.** 2019. Will Bengal tigers really disappear from the Sundarbans? *The Daily Star*, 27 March 2019 (Largest English print newspaper of Bangladesh).

– **Mukul, S.A.** 2016. The one and only Sundarbans. *BDNEWS24*, September 27, 2016 (Largest online news portal of Bangladesh).

– **Mukul, S.A.** 2015. Bengal tigers and the future of conservation. *BDNEWS24*, July 29, 2015 (Largest online news portal of Bangladesh).

– **Mukul, S.A.** 2008. Hogla (*Typha elephantina* Roxb.): a potential NTFP for socio-economic upliftment in rural Bangladesh. *Non-Wood News*, 16: 43-44 (FAO, Italy).

## Teaching Experience

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• **Independent University, Bangladesh**

Assistant Professor of Environmental Management (2017-2019)

*Undergraduate teaching:*

– ENV 360 (*Agro-Social Forestry*): Summer 2017, Spring 2018 [25 student]

– ENV 330 (*Agriculture and Land Resources Management*): Summer 2019 [25 students]

– ENV 202 (*Environmental Biology, Ecology and Conservation*): Spring 2017, Summer 2017, Autumn 2017, Spring 2018, Summer 2018, Autumn 2018, Summer 2019 [25 students]

– BIO 101 (*Fundamentals of Environmental Biology*): Summer 2018 [25 students]

– ENV101 (*Introduction to Environmental Studies*): Spring 2017, Spring 2018 [40 students]

*Graduate teaching:*

– CCD 502 (*Climate Change and Sustainable Development*): Summer 2019 [15 students]

– CCD 515 (*Climate Change and Disaster Management*): Autumn 2017 [15 students]

– RDM 512 (*Sustainable Floodplain Management*): Summer 2018 [15 students]

– RDM 501 (*Principles of Natural Resources Management*): Autumn 2017 [15 students]

• **The University of Queensland, Australia**

Teaching Assistant of Environmental Management (2014-2016)

*Undergraduate teaching:*

– ENVM 3102 (*Industrial Ecology*): Autumn 2014, Summer 2015, Fall 2015, Summer 2016 [20 students]

## Advising and Mentoring Experience

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• **Independent University, Bangladesh (2017-2019)**

Masters thesis supervision:

– Ms. Tahsin Madani Hossain (2019)

– Mr. Mohammad Arif (2019)

– Ms. Anima Ashraf (2017)

Undergraduate project supervision:

- Mr.Md. Amirul Islam (2019)
- Ms. Faria Rahman Joya (2019)
- Ms. Quazi Nadia Esrat (2018)
- Mr. Mahmudul Hasan Abir (2018)
- Mr. Savio Rozario (2018)
- Ms. Sanjida Islam Shema (2017)
- Mr. Mohammad Shafil Hossain (2017)

- **The University of Queensland, Australia (2014-2016)**

Masters thesis supervision:

- Ms. Chloe Gudmundsoon (2015)

Undergraduate project supervision:

- Mr. Matthew Zajackowski (2016)
- Mr. Benjamin Gowen (2015)
- Mr. Doug Allen (2015)
- Mr. Mikhail Masnyi (2015)
- Mr. Thomas Rooney (2014)

- **Mentoring and advisory role in other institutions:**

- Mr. Habibur Rahman, PhD (ongoing), Kyoto University, Japan (2018-)
- Mr. Mizanur Rahman, PhD (ongoing), University of Bonn, Germany (2018-)
- Ms. Olivia Rose Dyer, MSc Student, Imperial College London, UK (2018-)
- Mr. Shin Seung-Uk, MSc Student, Seoul National University, Korea (currently: PhD Student, University of Illinois at Urbana Champaign, USA) (2017-)
- Dr. Deepa Shree Rawal, University of Melbourne, Australia (2017)
- Ms. Iremela Krug, MSc Student, Ministry of Agriculture and Forests, Bhutan (2017)
- Mr. Akim Mahmud, MSc Student, Coastal Carolina University, South Carolina, USA (2015-)

## Professional Services

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- **Academic services:**

- 2020: PhD Thesis Examiner, School of Rural and Environmental Science, University of New England, Australia;
- 2018-2019: Faculty Mentor, Graduate Program on Climate Change and Development, IUB;
- 2018: Committee Member, Institutional Quality Assurance Cell, IUB;
- 2017-2018: Undergraduate Research Chair, Department of Environmental Management, IUB;
- 2017-2019: Research Group Leader, Applied Ecology and Conservation Research Lab, Independent University, Bangladesh (IUB);

- **Organization and program committee:**

- 2019: Int'l Conference – 'Forest and Landscape Restoration: Making it happen' held at Manila, Philippines;
- 2017: 2<sup>nd</sup> Annual Conference on 'Social Research in Bangladesh' held at Dhaka, Bangladesh;
- 2015: Int'l Conference - 'Small-scale and Community Forestry and the Changing Nature of Forest Landscapes' held at Sunshine Coast, Australia;
- 2013 and 2014: 'Annual World Bank Conference on Land and Poverty' held at Washington DC, USA;
- 2011 and 2012: 'Int'l Conferences on Environmental Aspects of Bangladesh' held at Fukuoka, Japan

- **Co-organizing workshops, sessions, and seminars:**

- Workshop on ‘Scientific writing and communications techniques for early career researcher and academicians’ at Institute of Energy, Environment, Research and Development (IEERD), University of Asia Pacific, Dhaka, Bangladesh (2020);
- Session on ‘Environmental impacts of Rohingya refugees influx in Bangladesh’ in Int’l conference – Rohingya Crisis in Bangladesh: Challenges and Sustainable Solution at North South University, Dhaka, Bangladesh (2019);
- National workshop ‘Reflection on Rohingya Crisis: Since & beyond’ held at Dhaka, Bangladesh (2019);
- Workshop on field trial planning and management for researchers and academicians (Topic: Data organisation, analysis and management) at Visayas State University, Leyte, Philippines (2019);
- Session on ‘Human wildlife conflict and co-existence in human dominated landscapes’ held at ‘ESP Asia Conference’ in Dehradun, India (2018)

- **Special issues in journal and service as a reviewer:**

- **Forests** (MDPI, IF – 2.22): Special issue on "Forests and Landscape Restoration", co-editor with Dr. Liz Ota, Dr. Nestor Gregorio, Dr. Sarah Willson, Prof. Robin Chazdon and Prof. John Herbohn (2020);
- **Environments** (MDPI): Special issue on "Tropical Forests and Climate Change: Impacts, Adaptation and Mitigation", co-editor with Prof. John Herbohn (2017);
- Reviewer: **IPCC Fifth Assessment Report** (Working Group II), Cambridge University Press, UK (2013);
- Section Editor: **Life on Land, Encyclopedia of the UN Sustainable Development Goals**, Springer (2020);
- Ad-hoc reviewer: **Scientific Reports** (Nature Publishing Group); **PLoS ONE**; **Journal of Applied Ecology** (Wiley); **Conservation Biology** (Wiley); **Land Degradation & Development** (Wiley); **Applied Vegetation Science** (Wiley); **Ecology and Evolution** (Wiley); **Conservation Science and Practice** (Wiley); **Science of the Total Environment** (Elsevier); **Ecosystem Services** (Elsevier); **Land Use Policy** (Elsevier); **Applied Geography** (Elsevier); **Ecological Economics** (Elsevier); **Acta Oecologica** (Elsevier); **Journal of Cleaner Production** (Elsevier); **One Earth** (CELL Press/Elsevier); **Journal of Environmental Planning & Management** (Taylor & Francis); **International J. of Sustainable Development & World Ecology** (Taylor & Francis); **Journal of Sustainable Forestry** (Taylor & Francis); **Forests, Trees and Livelihoods** (Taylor & Francis); **Small-scale Forestry** (Springer); **Forests** (MDPI); **Sustainability** (MDPI); **Water** (MDPI); **Development in Practice** (Taylor & Francis); **Ecosystems and People** (Taylor & Francis); **Oecologia** (Springer); **AMBIO** (Springer); **Journal of Mountain Science** (Springer); **Journal of Forestry Research** (Springer); **International Forestry Review** (BioOne) etc. (2007– present).

## Selected Talks, Lectures, and Presentations

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- ‘Impacts of COVID-19 pandemic on wildlife and conservation’, invited talk at Int’l. Webinar – **COVID-19 impacts and implications on environment**, Central University Jharkhand, India, September, 2020.
- ‘Is environment the missing link in humanitarian work?- Impacts of humanitarian development after Rohingya influx in Cox’s Bazar, Bangladesh’, invited talk at workshop – **Beyond the Crisis Narrative: Rohingya statelessness and its implications for Bangladesh**, UC Berkeley, USA, February, 2020.
- ‘Environmental impacts of Rohingya refugee influx in Bangladesh: Creating opportunities to advance environmental, humanitarian, and development progress’, talk at Int’l conference – **Rohingya Crisis in Bangladesh: Challenges and sustainable solution**, July, 2019.
- ‘Forest landscape restoration in the context of the Rohingya: creating opportunities to advance progress in Cox’s Bazar’, talk in national workshop on **Reflection on Rohingya Crisis: Since and beyond**, Dhaka, Bangladesh, April 2019.

- ‘Can natural regeneration be a cost-effective restoration strategy in the upland Philippines?’, talk at Int’l conference – **Forests and Landscape Resoration: Making it happen**, Manila, Philippines, February, 2019.
- ‘Mitigating human-wildlife conflict in tropical trans-boundary landscapes: the case of human-elephant conflict in Bangladesh, India and Myanmar’, talk at Int’l conference – **ESP (Ecosystem Services Partnership) Asia Conference**, held in Dehradun, India, September, 2018.
- ‘Forest management and conservation in tropical developing countries – lessons from Bangladesh’, **Forests for the Future Public Lecture Series**, University of the Sunshine Coast, Australia, August, 2018.
- ‘Conservation benefits of tropical multi-functional land-uses in and around a forest protected area of Bangladesh’, talk at **55th Annual Meeting of the Association for Tropical Biology and Conservation**, Sarwak, Malaysia, July, 2018.
- ‘Modeling spatial distribution of Asian elephant, Bengal tiger and Hoolock gibbon in Bangladesh forest ecosystems under a changing climate’, invited talk at **Young Scientists Meeting on Effect of Climate Change on Biodiversity**, The World Academy of Science (TWAS) - Regional Office for Central & South Asia (ROCASA), University of Peradeniya, Sri Lanka, October 2017.
- ‘High resilience of tropical forest diversity and structure after shifting cultivation in the Philippines uplands, talk at **IUFRO 125<sup>th</sup> Anniversary Congress 2017**, Freiburg, Germany, September, 2017.
- ‘High resilience of tropical forest diversity and structure after anthropogenic disturbance in southeast Asian rainforests’, talk at **Inaugural Global Forest Biodiversity Initiative Conference**, Beijing Forestry University, China, September, 2017.
- ‘Forest carbon estimate and REDD+ implications in Bangladesh’, talk at **3<sup>rd</sup> Gobeshona Conference for Climate Research in Bangladesh**, Dhaka, Bangladesh, January, 2017.
- ‘Measuring and mapping threats to forests: issues and opportunities’, poster presented at **American Geophysical Union Fall Meeting**, San Francisco, USA, December, 2015.
- ‘FELT Forests: A novel carbon payment scheme for improved livelihoods and better management of swidden fallow secondary forests in the developing tropics’, invited talk at **1<sup>st</sup> Annual FLARE Network Conference**, Paris, France, November, 2015.
- ‘Co-benefits of biodiversity and carbon from degraded secondary forests following shifting cultivation in the Philippines: implications for forest restoration’, talk at Int’l conference— **Small-scale and Community Forestry – Changing forest landscapes**, Sunshine Coast, Australia, October, 2015.
- ‘Rapid recovery of tree diversity over forest structure in post-*kaingin* secondary forests in the upland Philippines’, poster presented at **Student Conference on Conservation Science (SCCS Australia)**, January, 2015.
- ‘Biodiversity and ecosystem carbon budget in the upland landscapes following shifting cultivation by small-holder *kanigin* farmers in the Philippines’, talk at **XXIV IUFRO World Congress – Sustaining forests, sustaining people, role of research**, Utah, USA, October, 2014.
- ‘Neglecting conservation value of degraded tropical landscapes? Tree diversity following shifting cultivation in the upland Philippines’, talk at Int’l conference: **ATBC 2014: The future of tropical biology and conservation**, Cairns, Australia, July, 2014.
- ‘The future of reforestation programs in the tropical developing countries: insights from the Philippines’, talk at **Australia New Zealand Society for Ecological Economics Conference 2013**, Crawford School of Public Policy, Australian National University, Canberra, November, 2013.
- ‘Efficacy of forest law enforcement and incentive based conservation to prevent illegal logging in Bangladesh’, talk at **Earth System Governance Tokyo Conference**, United Nations University at Tokyo, Japan, January, 2013.

- ‘Linking society, ecology and economics in land-use decisions’, talk at **World Conference on Natural Resource Modeling**, Brisbane, Australia, July, 2012.
- ‘Swidden cultivation in the central hills of Nepal: perceptions and factors of change’, poster presented at Int’l conference: **Planet Under Pressure** – New knowledge towards solutions, London, UK, March, 2012.
- ‘Shifting paradigm of governance in the natural resource sector of Bangladesh’, talk at Int’l conference- **40 Years of Bangladesh: Retrospective and Future Prospects**, Savar, Bangladesh, November, 2011.
- ‘Trade-offs between Plant Biodiversity and Management Intensification’, speed talk at **Student Conference on Conservation Science** (SCCS–New York), American Natural History Museum, New York, USA, October, 2011.
- ‘Role of contrasting agroforestry land-uses on carbon storage and allocation in tropical forests of Bangladesh’, poster presented at Int’l conference— **Geo-carbon: Carbon in a changing world**, Food and Agriculture Organization of the United Nations (FAO), Rome, Italy, October, 2011.
- ‘Land-use change in the central hill districts of Nepal with special interest on shifting cultivation’, poster presented at **Euroleague Scientific Students Conference** : Can agriculture feed the world? Wageningen, Netherlands, October, 2011.
- ‘Ecological trade-offs between plant biodiversity, land-use and management intensification in agroforestry landscapes of Bangladesh’, poster presented at Int’l Conference: **Tropentag 2011 – Development on the margin**, Bonn, Germany, October, 2011.
- ‘A journey towards better governance: status and prospects of collaborative management in protected areas of Bangladesh’, talk at **First Bangladesh Forestry Congress**, Dhaka, Bangladesh, August, 2011.
- ‘Contribution of indigenous agroforestry systems in biodiversity conservation and ecosystem functioning’, poster presented at **XXIII IUFRO World Congress**, Seoul, South Korea, August, 2010.
- ‘The efficacy of forest law enforcement and economic incentives to prevent illegal logging in developing states’, talk at **18<sup>th</sup> Commonwealth Forestry Conference**, Edinburgh, UK, June, 2010.
- ‘Urban landscape dynamics and consequences on local biodiversity in a north-eastern district of Bangladesh’, talk at Int’l Conference – **URBIO 2010: Urban Biodiversity and Design**, Nagoya, Japan, May, 2010.
- ‘Biodiversity conservation and ecosystem functioning in contrasting tropical agro eco-systems of Bangladesh’, poster presented at **Student Conference on Conservation Science** (SCCS–Cambridge), University of Cambridge, UK, March, 2010.
- ‘Changing consumption and marketing pattern of non-timber forest products in a competitive world’, talk at Int’l conference— **FORTROP II: Tropical Forestry Change in a Changing World**, Bangkok, Thailand, November, 2008.
- ‘The role of traditional forest practices in enhanced conservation and improved livelihoods of indigenous communities’, talk at Int’l conference: **Forest Related Traditional Knowledge & Culture in Asia**, Korea Forest Institute, Seoul, Korea, October, 2008.
- ‘Traditional homegardens and domestic biomass fuel consumption pattern in the developing world’, invited talk at Int’l conference—**World Bioenergy 2008**, Jönköping, Sweden, May, 2008.
- ‘Integrating biodiversity conservation and livelihood provisions in protected area management: the role and prospects of non-timber forest products’, poster presented at Int’l conference— **ATBC 2008: Towards Sustainable Land-use in Tropical Asia**, Sarawak, Malaysia, April, 2008.
- ‘Communities in Conservation: Changing protected area management and enhanced conservation in the north-eastern Bangladesh’, talk at Int’l conference—**The Future of Forests in Asia & the Pacific: Outlook for 2020**, Chiang Mai, Thailand, October, 2007.

## Professional Memberships

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- American Geophysical Union (AGU) (2013-) (Council member, Global Environmental Change Chapter)
- British Ecological Society (BES) (2015-)
- Commonwealth Forestry Association (CFA) (2014-)
- Institution of Foresters Bangladesh (IFB) (2019-)
- Association for Tropical Biology and Conservation (2008-) (Bangladesh Chapter President, 2009)
- Regional Studies Association (RSA) (2019-)
- International Network of Research on Coupled Human and Natural Systems (2011-)
- Global Forest Biodiversity Initiative (GFBI) (2016-)

## Referees

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- **Dr. John Herbohn**  
Professor and Director, Tropical Forests and People Research Centre, University of the Sunshine Coast, Maroochydore, QLD 4558, AUSTRALIA  
E-mail: jherbohn@usc.edu.au
- **Dr. Robin Chazdon**  
Professor, Department of Ecology & Evolutionary Biology, University of Connecticut, Storrs, CT, USA  
E-mail: robin.chazdon@uconn.edu / rchazdon@gmail.com
- **Dr. Jennifer Firn**  
Professor, School of Earth, Environmental and Biological Sciences, Queensland University of Technology, Brisbane, QLD 4001, AUSTRALIA  
E-mail: jennifer.firn@qut.edu.au
- **Dr. Anja Byg**  
Research Fellow, Social, Economic and Geographical Science Group, The James Hutton Institute, Aberdeen AB15 8QH, Scotland, UK  
E-mail: anja.byg@hutton.ac.uk
- **Dr. Jefferson Fox**  
Senior Fellow, Environmental Change, Vulnerability and Governance, East-West Center, Honolulu, Hawaii 96848, USA  
E-mail: FoxJ@EastWestCenter.org / jeffersonfox@yahoo.com