

Naveen Verabhadraswamy

PH.D. CANDIDATE IN NATURAL SCIENCES, CARBON DYNAMICS MODELING

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Education

Ph.D. (Natural Sciences) in Carbon Dynamics Modeling	Université du Québec en Abitibi-Témiscamingue, CA
<i>Understanding the climate change mitigation potential of forest management in the Clay Belt region</i>	Present
M.Sc. (Forestry) in Silviculture and Agroforestry	College of Forestry, Ponnampet, India
<i>Geospatial Approach for Assessment of Trees Outside Forest using High-Resolution Satellite Data</i>	2020
PG Diploma (Remote Sensing and GIS)	Indian Institute of Remote Sensing, India
<i>Sentinel-1 Time Series Data Analysis for Forest Change Detection</i>	2018
B.Sc. (Forestry)	College of Forestry, Ponnampet, India
-	2017

Academic Appointments

- Aug 2022–present: PhD Researcher, Université du Québec en Abitibi-Témiscamingue, Canada
- Mar 2021–Sep 2021: Assistant Professor (CT), College of Forestry, Ponnampet, Kodagu, UAHS Shivamogga
- Dec 2020–Mar 2021: Project Assistant, College of Forestry, Ponnampet

Research Areas

Research Focus

Forest carbon dynamics modeling, Climate change mitigation through forest management, Boreal forest and peatland carbon dynamics, Remote sensing and GIS for forest monitoring

Awards & Honors

- 2019: Selected for ITC Excellence Scholarship, University of Twente, Netherlands
- 2018: Golden Jubilee Fellowship, Post Graduate Diploma Programme, Indian Institute of Remote Sensing, ISRO, Dehradun

Refereed Publications

2022

- Panwar, P., Mahalingappa, D. G., Kaushal, R., Bhardwaj, D. R., Chakravarty, S., Shukla, G., Thakur, N. S., Chavan, S. B., Pal, S., Nayak, B. G., Srinivasaiah, H. T., Dharmaraj, R., **Naveen, V.**, Apsahana, K., Suresh, C. P., Kumar, D., Sharma, P., Kakade, V., Nagaraja, M. S., ... Gurung, T. (2022). Biomass Production and Carbon Sequestration Potential of Different Agroforestry Systems in India: A Critical Review. *Forests*, 13(8), 1274. <https://doi.org/10.3390/f13081274>

2021

- **Naveen, V.**, Devagiri, G. M., & Khaple, A. K. (2021). Fusion of complementary information of SAR and optical data for forest cover mapping using Random Forest algorithm. *Current Science*, 120(1), 194–199. <https://doi.org/10.18520/cs/v120/i1/193-199>
- Khaple, A. K., Devagiri, G. M., **Veerabhadraswamy, N.**, Babu, S., & Mishra, S. B. (2021). Vegetation biomass and carbon stock assessment using geospatial approach. In *Forest Resources Resilience and Conflicts* (pp. 77–91). Elsevier. <https://doi.org/10.1016/B978-0-12-822931-6.00006-X>

Teaching

Courses at College of Forestry, Ponnampet, Kodagu

- : Climate Change (2021)
- : Application of Remote Sensing and GIS in Forestry (2021)
- : Environmental Studies and Disaster Management (2021)

Mentoring

Current Students

2026-05-08

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Past Students

GRADUATED

- Project Guide: B.Sc. (Forestry): *Teak Forest of Kodagu and its Phenological Variations: A Geospatial Investigation*: 2023

Workshops & Training

2025

- Joël Masimo Kabuanga, **Naveen Verabhadraswamy**, and Osvaldo Valeria. “Introduction to Google Earth Engine.” Workshop at the Centre d'étude de la forêt (CEF) Annual Meeting 2025, Rimouski, Quebec, Canada. May 6, 2025.

2022

- Resource Person, 21-day Department of Science and Technology-sponsored winter school on *Geospatial Science and Technology (Level 1)*. Department of Natural Resource Management, College of Forestry, Ponnampet. January 10-31, 2022.

2021

- Instructor, courses on *Climate Change, Application of Remote Sensing and GIS in Forestry*, and *Environmental Studies and Disaster Management*. College of Forestry, Ponnampet, Kodagu, UAHS Shivamogga.
- Trainer, RKVY-funded project on *Entrepreneurship Development through Forest and Agroforestry for Post COVID-19 Scenarios: Module-4 Geospatial Technology for Forest Resource Management*. College of Forestry, Ponnampet.

Invited Talks

2025

- “How Research Works: My Journey from Student to Researcher.” Cégep de l'Abitibi-Témiscamingue, Rouyn-Noranda, Quebec, Canada. April 7 and 9, 2025.

2024

- “Google Earth Engine: Basics.” M.Sc. students, Université du Québec en Abitibi-Témiscamingue, Rouyn-Noranda, Quebec, Canada. February 2024.

2023

- “Introduction to Google Earth Engine.” M.Sc. students, Université du Québec en Abitibi-Témiscamingue, Rouyn-Noranda, Quebec, Canada. February 2023.

Conferences & Seminars

2024

- **Naveen Verabhadraswamy**, Dominic Cyr, Kelly Bona, Xavier Cavard, Yan Boulanger, Osvaldo Valeria. “Understanding the Climate Change Mitigation Potential of Forest Management in the Clay Belt Region.” *Symposium Aménagement forestier et forêts: Leviers pour atténuer les changements climatiques (ACCFor-2024)*. Online. December 10, 2024.

2023

- **Naveen Verabhadraswamy**, Dominic Cyr, Xavier Cavard, Yan Boulanger, Osvaldo Valeria. “Balancing Act: Unveiling the Climate Change Mitigation Potential of Forest Management in the Clay Belt Region.” *Symposium Aménagement forestier et forêts: Leviers pour atténuer les changements climatiques (ACCFor-2023)*. Université Laval, Québec. December 6, 2023.
- **Naveen Verabhadraswamy**, Osvaldo Valeria, Dominic Cyr, Xavier Cavard, Yan Boulanger. “Is burnt wood recovery justified from a carbon balance perspective in the Clay Belt context in the short, medium, and long terms, and how can it be improved?” Doctoral Examination, Université du Québec en Abitibi-Témiscamingue, Rouyn-Noranda. December 5, 2023.
- **Naveen Verabhadraswamy**, Osvaldo Valeria, Dominic Cyr, Xavier Cavard, Yan Boulanger. “Understanding the climate change mitigation potential of forest management in the Clay Belt region.” Thesis project presentation, Université du Québec en Abitibi-Témiscamingue, Rouyn-Noranda. May 26, 2023.

2022

- **Naveen Verabhadraswamy**, Dominic Cyr, Osvaldo Valeria. “Understanding forest management as a solution for climate change mitigation: Carbon dynamics modeling at landscape level.” *24e colloque de la Chaire AFD*. Université du Québec en Abitibi-Témiscamingue, Rouyn-Noranda, Québec. November 22, 2022.

2020

- **Naveen V.** “Biomass estimation using SAR data.” Masters Seminar-II, College of Forestry, Ponnampet, Kodagu, India. 2020.
- Sandeep, C., Ranganath, V., Khaple, A. K., **Naveen V.**, and Devagiri, G. M. “Forest fire assessment and risk zonation mapping using geospatial technology.” *National Seminar on Sustainable Natural Resources Management: An Engineering Perspective*. College of Forestry, Ponnampet, India. January 28-29, 2020.

2019

- **Naveen V.** “Biophysical Modelling of Agroforestry Systems.” Masters Seminar-I, College of Forestry, Ponnampet, Kodagu, India. 2019.
- Vinaykumar, K. H., Prakash, M. K., Raveesha, K. A., **Naveen V.**, Shrisha, D. L., and Ankith Kumar, K. V. “Geo-spatial driven estimation of above-ground biomass using Sentinel data for Kalbetta State Forest, Mysuru, India.” *National Seminar on Climate Change*. Environmental Management and Policy Research Institute, Bengaluru. January 24-25, 2019.

2017

- **Naveen V.**, Devagiri, G. M., Ravikumar, D., Khaple, A. K., and Manoj, C. J. “Applications of LiDAR in forest and ecosystem management: A review of recent developments.” *National Seminar on Application of Remote Sensing and GIS in Indian Scenario*. College of Forestry, Sirsi, India. September 15-16, 2017.
- Devagiri, G. M., Khaple, A. K., Manoj, C. J., **Naveen V.**, and Vilas, P. “Applications of LiDAR remote sensing in carbon forestry: A review.” *National Seminar on Application of Remote Sensing and GIS in Indian Scenario*. College of Forestry, Sirsi, India. September 15-16, 2017.

Professional Services

- 2024–present: GIS and Forestry Advisor, Sequestr.io
- 2023–2024: Forestry and Remote Sensing Specialist, Thryve.Earth
- 2023: Short-Term Consultant, Impact Assessment Department, Reforest’Action
- 2022: GIS and Remote Sensing Consultant, Impact Assessment Department, Reforest’Action
- 2021–2022: International Correspondent, Reforest’Action

Professional Memberships

- 2022–present: Student Member, La Chaire AFD
- 2022–present: Student Member, Centre d’étude de la forêt
- 2019–present: Individual Member, International Society for Photogrammetry and Remote Sensing
- 2019–present: Life Member, Indian Society of Remote Sensing
- 2020: Student Member, Institute of Electrical and Electronics Engineers