

VITOR HUGO FREITAS GOMES (GOMES, V. H. F.)



1. PERSONAL DETAILS AND THE DATE OF THE CV

- Surname: Freitas Gomes
- First names: Vitor Hugo
- Researcher ID: Orcid, <https://orcid.org/0000-0002-3855-5584>
- ResearchGate: <https://www.researchgate.net/profile/Vitor-Gomes-2>
- Google scholar: <https://scholar.google.com/citations?user=eIrwO8AAAAJ&hl>
- Date of the CV: April 2026

2. DEGREES

- **2019** Doctoral degree in Environmental Sciences (with honors), Federal University do Pará, Belém, Brazil (Top 400 Impact Ranking). Included a research stay of 2 years at Naturalis Biodiversity Center, Leiden, Netherlands.
- **2012** Master degree in Local Development, Federal University do Pará, Belém, Brazil.
- **2009** Postgraduate degree in Computer Networks, Federal University do Pará, Belém, Brazil.
- **2006** Technologist degree (undergraduate level) in Data Processing, University Centre of Pará, Belém, Brazil.

3. OTHER EDUCATION AND EXPERTISE

3.1. Professional profile

I am an environmental scientist, university lecturer, and research coordinator with over 15 years of experience spanning academic research, teaching, science–policy engagement, and institutional collaboration in Brazil, the Netherlands, and Finland. My career combines a strong scientific track record in biodiversity, climate change, restoration, and sustainability with substantial experience in coordinating multi-actor initiatives, supporting collaborative research agendas, and translating scientific knowledge into societally relevant actions. In addition to my academic positions, I have held senior roles in public-sector development and institutional relations, where I coordinated interactions among universities, government agencies, private-sector organizations, and civil society. I currently serve as Coordinator of the Amazon Tree Diversity Network (ATDN), an international research network involving more than 200 researchers and over 2,000 forest plots across Amazonia, and I contribute to climate governance through the Steering Committee of the Pará State Climate Change System. These experiences have strengthened my ability to facilitate interdisciplinary collaboration, support strategic initiatives, communicate research to diverse audiences, and connect scientific excellence with visibility, impact, and long-term programme development.

3.2. Integration into the Finnish academic and professional environment

Since moving to Finland, I have actively invested in language and pedagogical training to strengthen my integration into the Finnish academic system and broader professional environment. I have completed Finnish language courses from beginner to intermediate level at the University of Turku and have also undertaken pedagogical training, including Teacher Tutoring (2025) and the ongoing Becoming a Higher Education Teacher programme. This training supports my long-term engagement with Finnish academia and strengthens my capacity to communicate and facilitate research activities across disciplinary and societal contexts.

3.3. Science–policy engagement and stakeholder coordination

Beyond academia, I have received training in capacity building and participatory development through the JICA programme Capacity Building of Local Governments for Development with Community Participation (2022). Together with my professional experience in public-sector strategy and institutional relations, this has strengthened my ability to connect research with decision-making processes, facilitate dialogue across sectors, and support the practical use of scientific knowledge in governance and policy contexts..

3.4. Quantitative and modelling skills.

My background includes training in applied statistics, time-series analysis, ecological modelling, and data-driven research methods. These skills support my ability to engage with complex research agendas, work effectively with multidisciplinary teams, and translate technical outputs into strategic and decision-relevant information.

4. LANGUAGE SKILLS

4.1. Native

- Portuguese

4.2. Other language

- English – Understanding (C2), Speaking (C2), Writing (C2)
- Spanish – Understanding (B1), Speaking (B1), Writing (A2)
- Dutch – Understanding (A1), Speaking (A1), Writing (A1)
- Finnish – Understanding (A1), Speaking (A1), Writing (A1)

5. CURRENT EMPLOYMENT

- **Sep 2024 – Present** Postdoctoral Fellow, project Evolution of Landscapes, Rivers and Biota in Amazonia (EVOAMAZ Project), Department of Biology, University of Turku, Turku, Finland. Field: Environmental Science. PI: Prof. Hanna Tuomisto.
- **Mar 2024 – Present** Lecturer, Postgraduate Program in Territorial Intelligence and Sustainability, University Centre of Pará, Belém, Brazil.
- **Nov 2020 – Present** Lecturer, Postgraduate Program in Tropical Botany, Federal Rural University of Amazonia, Belém, Brazil.
- **Aug 2019 – Present** Lecturer, Undergraduate Program in Computer Science, University Centre of Pará, Belém, Brazil.

6. PREVIOUS WORK EXPERIENCE

- **Jan 2022 – Aug 2024** Post-Doctorate fellow, working on climate change effects on ecosystem services and edible species. Biodiversity and Ecosystem Services Group. Instituto Tecnológico Vale, Belém, Pará, Brazil. Field: Environmental Science Supervisor: Tereza Cristina Giannini.
- **Jan 2020 – Dec 2021** Post-Doctorate fellow, working on climate change effects over Amazonian tree flora according to the Paris Agreement. Institute of Geosciences, Federal University of Pará, Belém, Brazil. Field: Environmental Science. Supervisors: Ima Célia Guimarães Vieira.
- **Sep 2014 – Aug 2018** Research Assistant, Institute of Geosciences, Federal University of Pará, Belém, Brazil.
- **Jun 2008 – Aug 2014** Research assistant, Museu Paraense Emílio Goeldi, Belém, Brazil.

6.1. Experience outside academia and societal engagement

From 2018 to 2024, I held senior positions at the Economic Development Company of Pará (CODEC), including Development Manager and Strategy and Institutional Relations Advisor. In these roles, I coordinated interactions among government agencies, academic institutions, private-sector actors, and civil society organizations, with responsibilities related to stakeholder engagement, strategic planning, inter-institutional collaboration, and the development of sustainability-oriented initiatives. This experience strengthened my capacity to work across organizational boundaries, align diverse actors around shared goals, and translate technical knowledge into formats relevant for policy and institutional decision-making.

7. CAREER BREAKS

None.

8. RESEARCH OUTPUT

8.1. Research profile

I have authored 27 peer-reviewed publications, with 839 citations in Scopus (h-index 16) and more than 1,300 citations in Google Scholar. My research focuses on quantitative community ecology, species distribution modelling, large-scale analyses of Amazonian biodiversity, conservation, ecosystem services, and forest restoration. My publications include articles in leading international journals such as Nature, Science, PNAS, Nature Climate Change, Communications Biology, Journal of Biogeography, and Biological Conservation. Much of this work has been developed through international and interdisciplinary collaboration. I currently serve as Coordinator of the Amazon Tree Diversity Network (ATDN), a major collaborative research network spanning Amazonia (<https://sites.google.com/naturalis.nl/amazon-tree-diversity-network/homepage>).

9. RESEARCH FUNDING AND GRANTS

- **2023 – 2024** Fundação de Ciência, Tecnologia, Inovação e Desenvolvimento Sustentável Guamá (Fundação Guama), “Sustainable use of natural resources in tropical regions”. Grant number 064/2024, Post-doctorate research (€ 29,200).
- **2022 – 2023** Fundação de Amparo e Desenvolvimento da Pesquisa (FADESP), “Capital Natural da Floresta de Carajás”. Grant number 064/2024, Post-doctorate research (€ 16,300).
- **2021 – 2022** Fundação de Ciência, Tecnologia, Inovação e Desenvolvimento Sustentável Guamá (Fundação Guama), “Sustainable use of natural resources in tropical regions”. Grant number 064/2024, Post-doctorate research (€ 9,070).
- **2020 – 2021** Coordination for the Improvement of Higher Education Personnel (CAPES), “Quantification of the climate change effects over Amazonian tree flora according the Paris Agreement”. Grant number 88887.509407/2020-00, Post-doctorate research (€ 8,850).
- **2015 – 2016** National Council for Scientific and Technological Development (CNPq), “Amazonian tree species barcode (Barcoding Caxiuanã)”. Grant no. 203102/2015-0, Doctorate research developed abroad (€ 29,890)
- **2014 – 2018** National Council for Scientific and Technological Development (CNPq), “Impacts of climate change and deforestation on Amazonian tree flora”. Grand by Social Demand Program, Doctorate research (€ 17,420).

10. RESEARCH SUPERVISION AND LEADERSHIP EXPERIENCE

10.1. Research supervision

I have supervised 28 students across different academic levels since 2017, including 2 PhD theses (1 as supervisor, 1 as co-supervisor), 5 Master’s dissertations (3 supervisor, 2 co-supervisor), and 21 undergraduate final projects (18 supervisor, 3 co-supervisor). The majority of these works fall within the fields of Environmental Sciences, Ecology, Biodiversity, and applied data analysis, closely aligned with forest restoration, species distribution, and sustainability-related topics. I am currently co-supervising a Master’s student at the University of Turku, part of my active integration into the department and engagement in postgraduate training in Finland.

- **Ongoing** Ukko Romu. Master dissertation. University of Turku, Finland (co-supervisor).
- **Ongoing** Emmi Saarela. Bachelor thesis. University of Turku, Finland (co-supervisor).
- **Ongoing** Inaê Vilhena de Souza. PhD thesis, Federal Rural University of Amazonia, Brazil (supervisor).
- **Ongoing** Maricélia Gonçalves Barbosa. PhD thesis, Federal Rural University of Amazonia, Brazil (co-supervisor).
- **Ongoing** Antonio Elson Ferreira Borges. Master dissertation. Federal Rural University of Amazonia, Brazil (supervisor).
- **Ongoing** Ricardo Carneiro Raymundo. Master dissertation. University Centre of Pará, Brazil (co-supervisor).

10.2. Leadership and coordination experience

- 2026 – Present Coordinator, Amazon Tree Diversity Network (ATDN). Coordination of a large-scale international research network involving more than 200 researchers and over 2,000 permanent forest plots across Amazonia.
- 2022 – Present Steering Committee Member, Pará State Climate Change System (COGES-CLIMA), contributing to strategic planning and the science–policy interface on climate adaptation and mitigation.
- 2020 – 2024 Strategy and Institutional Relations Advisor, Economic Development Company of Pará (CODEC), coordinating institutional partnerships, stakeholder engagement, and research-informed strategies for sustainable development.
- 2020 – 2024 Research leadership in biodiversity and sustainability projects, coordinating multi-institutional collaborations on climate change, ecosystem services, and restoration-related research.
- 2018 – 2020 Development Manager, CODEC, leading applied projects related to environmental sustainability, regional planning, and institutional development.

11. TEACHING MERITS

- Pedagogical expertise: Research-based teaching integrating biodiversity data, geospatial analysis, and climate change scenarios. Development of interdisciplinary modules linking ecology, computer science, and sustainability.
- Collaborative development: Creation of teaching materials for postgraduate programs; involvement in supervision of 25 theses and projects, enhancing student-led research capacity.

11.1. *Development of teaching methods*

- **2019 – Present** Development and use of data, scripts, and reproducible teaching materials for quantitative data analysis courses, including practical exercises applied in undergraduate and postgraduate education.
- Materials available at: <https://gitlab.com/vitorhfgomes-group/species-distribution-modelling>

11.2. *Teaching experience*

- Over 5 years of teaching at undergraduate and postgraduate levels. Since 2019, courses in Undergraduation Computer Science Program (Algorithms, Image Processing, Research Methodology) at CESUPA. Since 2021, courses in MSc and PhD in Tropical Botany Program (Biodiversity Conservation, Statistical and Species Distribution Modeling) at UFRA/MPEG.

12. AWARDS AND HONOURS

- **2019** CAPES National Thesis Award for the best thesis in Environmental Science, Brasilia, Brazil.
- **2019** Highly cited paper award. Top 100 highly accessed articles across Scientific Reports in 2018 <https://doi.org/10.1038/s41598-017-18927-1>
- **2019** Highly cited paper award. Top 100 Highly accessed ecology articles across Scientific Reports in 2018 <https://doi.org/10.1038/s41598-017-18927-1>
- **2019** Alexander von Humboldt Anniversary Collection. Article selected to the collection on ecology, global change, and geoscience from across six Nature journals to celebrate Alexander von Humboldt 250th Anniversary <https://doi.org/10.1038/s41558-019-0500-2>

13. OTHER KEY ACADEMIC MERITS

13.1. *Pre-examiner or opponent of a doctoral dissertation; memberships in doctoral dissertation committees or boards*

- **Tropical Botany Program**, Federal Rural University of Amazonia (Brazil): MSc and PhD juries (2019–2025).
- **Environmental Sciences Program**, University of the State of Pará (Brazil): MSc and PhD juries (2019–2023).
- **Ecology Program**, Federal University of Goiás (Brazil): PhD jury (2025).

13.2. *Memberships in national or international expert, evaluation or steering groups and other expert roles*

- **2022 – Present** Member of the Steering Committee of the Pará State Systems on Climate Change (COGES-CLIMA), Belém, Pará, Brazil.

13.3 Membership of scientific communities

- The International Biogeography Society.

13.4. Referee for scientific publications

- **2025 – Present** Editorial Board Member, Discover Forests (Springer Nature).
- **2019 – 2026** Reviewer of 37 manuscripts in the following peer reviewed journals: Nature Climate Change, Annals of Forest Science, Biodiversity and Conservation, Environmental Conservation, Plant Ecology and Diversity, Diversity and Distributions, Global Change Biology, Global Ecology & Conservation, Journal of Biogeography, Scientific Reports, Theoretical and Applied Climatology, Biodiversity Data Journal, Journal of Applied Ecology, Nature Communications, Oikos, Regional Environmental Change.

13.5. Scientific Evaluation

- **2025** External evaluator, National Council of Science and Technology (CONACYT), Paraguay. Evaluation of Research and Development (R&D) project proposals under the PROCENCIA Programme (Science, Technology and Innovation).

13.6. Invited lectures

- **2020** What pollen can tell us about Amazonian tree species distribution? Palynology Talks – The Palynological Society.
- **2019** Global changes and their impact on Amazonian biodiversity. I Seminário PPGBE, Museu Paraense Emilio Goeldi, Belém, Brazil.

13.7. Conferences and invited presentations

- **2025** How research on Amazonian biodiversity can guide climate adaptation and wellbeing policies. In: Bridging knowledges for science with impact in the Amazon. Manaus, Brazil.
- **2025** Food insecurity under global human-induced changes: plants of the future in the Amazonian biome. In: European Conference for Tropical Ecology.
- **2023** Usos das árvores por comunidades tradicionais. 73º Congresso Nacional de Botânica. 2023. Belém Brazil.

14. SCIENTIFIC AND SOCIETAL IMPACTS

- Open science: Active in producing and sharing large-scale biodiversity datasets (ATDN, restoration prioritization frameworks, geospatial platforms), with commitment to EU Open Science policies and open-access publishing.
- Research utilization: Outputs applied in biodiversity conservation, forest restoration planning, and climate policy (e.g. Pará State Climate System, Planaveg discussions).
- Responsible research: Engagement in multi-institutional collaborations (EVOAMAZ, ATDN, ITV) with transparent data practices and methodological reproducibility.
- **2020 – 2024** Strategy and Institutional Relations Advisor at the Economic Development Company of Pará, coordinating science-policy integration and sustainability projects.
- **2015 – 2017** Invited expert, Development and availability of free software access for restoration of degraded legal reserve and permanent preservation areas in Amazonia.