Juan Camilo Osorio Ospina

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I am a neotropical botanist researching plant ecology with the aim of contributing to plant conservation. I have experience analyzing large-scale datasets, organizing public outreach, providing administrative support, and implementing conservation initiatives. I am proficient in programming languages and tools, like R, Python, GIS, Adobe Photoshop, CSS, and HTML. I have also conducted fieldwork in diverse tropical ecosystems. I am self-motivated, resourceful, and dynamic.

Education

2025 – present	**E.M.J.M., Global Change Ecology and Biodiversity Management.** Rey Juan Carlos University. Mostoles, Spain. Bangor University. Bangor, Wales, United Kingdom. University of Lisbon. Lisbon, Portugal.
2018 – 2023	**B.Sc., Biology.** University of Los Andes. Bogota, Colombia.

Professional experience

2025 – present	**Research fellow.** Smithsonian Tropical Research Institute. Gamboa, Panama.
2024 – 2025	**Intern.** Smithsonian Tropical Research Institute. Gamboa, Panama.
2023 – 2024	**Research associate.** Cartagena Botanical Garden "Guillermo Piñeres". Cartagena, Colombia.
2018 – 2022	**Academic tutor.** University of Los Andes. Bogota, Colombia.
2019 – 2022	**Student assistant** for botany, ecology and plant systematic classes. University of Los Andes. Bogota, Colombia.

Peer-reviewed publications

Fortier, R. P., Bernal-Escobar, M., Kullberg, A. T**., Osorio-Ospina, J. C.**, Herrera Medina, Y., Aragón, L., Palacios Hurtado, C., & Contreras, M. P. (2024). Diversity, composition, and structure of a 1-hectare tree plot in the cloud forest of the Sierra Nevada de Santa Marta, Colombia. *Annals of Forest Science*, 81(1), 24. https://doi.org/10.1186/s13595-024-01239-6

Other publications

Lipsky, D., Pitcher, L., **Osorio-Ospina, J.C.** & Muller-Landau, H. C. (2024). Hyperspectral reflectance data for flowers, fruits, bark, and leaves of plants on Barro Colorado Island, Panama. Smithsonian Research Data Repository. https://doi.org/10.60635/C37W2T.

Osorio-Ospina, J. C. & Molina J. A. (2024). Spatial aggregation and resting places of *Apteronotus galvisi* (Apteronotidae: Gymnotiformes) individuals in a stream in the Orinoquia region (Meta: Colombia). Universidad de los Andes. http://hdl.handle.net/1992/69261.

Muller-Landau, H. C., Pitcher, L., & **Osorio-Ospina, J. C.** (2024) Sampling and measuring protocols for building the basis for automated species identification of tropical plants from hyperspectral data. https://striresearch.si.edu/quantitative-forest-ecology/wp-content/uploads/sites/205/2024/07/ProtocolsSpeciesSpectraBCI_2024-04-11.pdf

Contreras, M. P., **Osorio-Ospina, J. C.**, Rueda, C., & Madriñan, S. (2024). Bridging conservation efforts to visitor engagement: a holistic approach. *Botanic Gardens Conservation International Educational Review,* 21(1), 21. https://www.bgci.org/wp/wp-content/uploads/2024/05/Roots21.1MedRes-1-1.pdf.

Contreras, M. P., Bernal-Escobar, M., Kullberg, A. T., **Osorio-Ospina, J. C.**, Herrera Medina, Y., Aragón, L., Palacios Hurtado, C., & R. P. Fortier. (2023). Composición y estructura de una parcela permanente en la Sierra Nevada de Santa Marta. Jardín Botánico de Cartagena "Guillermo Piñeres." Occurrence dataset https://doi.org/10.15472/ftwol2.

Honors and awards

2025	**Short term fellowship.**
	Smithsonian Tropical Research Institute. Gamboa, Panama.
2017	**Full merit-based scholarship.**
	University of Los Andes. Bogota, Colombia.

Presentations

Osorio-Ospina J. C., Aguilar, S., Condit, R., Cushman, KC., Hubbell, S., Lao, S., Pérez, R., Ramos, P., Troy, C., Vasquez, V., Villarreal, P., Muller-Landau, H. C. Improving biomass estimations in tropical forests through palm allometries and dendrometer data for remote-sensing verification. 61st Annual Meeting of the Association for Tropical Biology and Conservation. **Presentation**. 2025.

Osorio-Ospina J. C., & Molina, J. A. Spatial aggregation and resting places of *Apteronotus galvisi* (Apteronotidae: Gymnotiformes) individuals in a stream in the Orinoquia region (Meta: Colombia). Satellite Symposium at the 15th International Congress of Neuroethology, Electric fishes: Neural systems, behavior and evolution. **Presentation**. 2024.

Osorio-Ospina J. C., Pitcher, L., Ramos, P., Ramos, P. Vasquez, V., Wright, J. Ferraz, A., Angel, Y., Chadwick, D., & Muller-Landau, H. Building the basis for automated species identification of tropical plants from hyperspectral and laser scanning data. Barro Colorado Island (BCI) 100-year symposium. **Poster**. 2024.

Vasquez, V., **Osorio-Ospina J. C.**, Garcia M., Hernandez M., Ramos, P., Villarreal, P. & Muller-Landau, H. The Central Panama drone datasets: A resource for studies of forest structure, dynamics, and phenology English. Barro Colorado Island (BCI) 100-year symposium. **Poster**. 2024.

Muller-Landau, H., Piponiot, C., Perez, R., Aguilar, S., Lao, S., Mitre, D., **Osorio-Ospina J. C.** & Condit, R. Insights and opportunities associated with the Smithsonian ForestGEO small plots in Central Panama. Barro Colorado Island (BCI) 100-year symposium. **Poster**. 2024.

Languages

| **Spanish** | Native speaker. |
| **English** | Full professional proficiency (IELTS: 8/9, C1). |

Volunteer work

| 2018 – 2020 | **Assistant plant curator.** |
| | C.J. Marinkelle Natural History Museum. Bogota, Colombia. |

Additional conference participation

| 2024 | **Building Botanical Bridges.** Cartagena, Colombia. |
| 2023 | **VI Colombian Zoological Congress.** Cordoba, Colombia. |

References and certificates upon request