Juan Camilo Osorio Ospina

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I am a neotropical botanist with a strong interest in biodiversity conservation and am seeking opportunities to collaborate with institutions engaged in related research. My professional background has provided me with experience in research, education, administrative support, and implementation of conservation initiatives. I am proficient in a number of programming languages and tools, including R, Python, GIS, Adobe Photoshop, CSS, and HTML. I have conducted fieldwork in a variety of ecosystems, including savanna, mangrove, wet tropical, dry tropical, and cloud forest, am fluent in English and Spanish, and have a strong background in botany, ecology, and large-scale data analysis. I am a highly motivated, resourceful, and dynamic individual.

Education

B.Sc., Biology. University of Los Andes. Bogota, Colombia. 2018 – 2023.

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.

Professional experience

Intern. Smithsonian Tropical Research Institute. Gamboa, Panama. March 2024 – present.
Research associate. Cartagena Botanical Garden "Guillermo Piñeres". Cartagena, Colombia. January 2023 – February 2024.
Academic tutor. University of Los Andes. Bogota, Colombia. August 2018 – December 2022.
Student assistant. Botany, Ecology and Systematics. University of Los Andes. Bogota, Colombia. August 2019 – December 2022.
Consultant for sustainable agricultural projects. Freelance. Anaime, Colombia. June 2019 – November 2020.

Honors and awards

Full merit–based scholarship. University of Los Andes. Bogota, Colombia. 2017.

Presentations

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)**.** Sattelite 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

Plant Assistant Curator. C.J. Marinkelle Natural History Museum. Bogota, Colombia
January 2018 – April 2020.

Additional conference participation

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

References and certificates upon request