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Biography

I'm an Ecuadorian researcher interested in the biodiversity, ecology, and behavior of insects. Throughout my career, they have ignited my curiosity, and to this day, I continue to be amazed by their biological diversity, their importance for the functioning of ecosystems, and the adaptations that have allowed them to become the most successful animal group. I have been fortunate to research several groups, although ants have attracted my attention most of the time. Recently, I have become interested in how ants use their vision to thrive in their environments. As part of the Ecological Neuroscience Group, my PhD research project aims to understand how strobe ants in the genus *Opisthopsis* navigate, evade predators, and how these behaviors are associated with their anatomical and physiological adaptations.

Research outputs

Aliens on the menu: high prevalence of introduced ants in the diet of Galápagos lava lizards, *Microlophus* spp.

Moreno-Buitrón, I. J., Boada-Viteri, E., Guayasamin, J. M., Guerra-Correa, E. S., Beccach-Mesia, I., Betancourt-Cargua, L., Román, A. C. & Ramón-Cabrera, G. M., Nov 2024, In: *Biological Invasions*. 26, 11, p. 3929-3945 17 p.

Aliens on the Menu: High Prevalence of Introduced Ants in the Diet of Galápagos Lava Lizards, *Microlophus* spp.

Moreno-Buitrón, I. J., Boada-Viteri, E., Guayasamin, J. M., Guerra-Correa, E. S., Beccach-Mesia, I., Betancourt-Cargua, L., Román, A. C. & Ramón-Cabrera, G. M., 14 Jul 2024, (Submitted) (Research Square).

Diversity of beetles (Coleoptera) in an inter-Andean dry tropical forest in Ecuador

Cadena-Mendoza, G. N. D. L. & Ramón-Cabrera, G. M., 21 Dec 2023, In: *Coleopterists Bulletin*. 77, 4, p. 561-580 20 p.

Weighted Hausdorff distance loss as a function of different metrics in convolutional neural networks for ladybird beetle detection

Vega, M., Benítez, D. S., Pérez, N., Riofrío, D., Ramón, G. & Cisneros-Heredia, D., 2022, *Applications of Computational Intelligence: 4th IEEE Colombian Conference, ColCACI 2021 Virtual Event, May 27–28, 2021 Revised Selected Papers*. Orjuela-Cañón, A. D., Arias-Londoño, J. D., Lopez, J. A. & Figueroa-García, J. C. (eds.). Cham, Switzerland: Springer, Springer Nature, p. 65-77 13 p. (Communications in Computer and Information Science; vol. 1471).

Automatic ladybird beetle detection using deep-learning models

Venegas, P., Calderon, F., Riofrío, D., Benítez, D., Ramón, G., Cisneros-Heredia, D., Coimbra, M., Rojo-Álvarez, J. L. & Pérez, N., 10 Jun 2021, In: *PLoS ONE*. 16, 6, p. 1-21 21 p., e0253027.

BeetleID: an Android solution to detect ladybird beetles

Muriel, R., Pérez, N., Benítez, D. S., Riofrío, D., Ramón, G., Peñaherrera, E. & Cisneros-Heredia, D., 2021, *2021 IEEE Fifth Ecuador Technical Chapters Meeting (ETCM)*. Huerta, M. K., Quevedo, S. & Monsalve, C. (eds.). Piscataway, NJ: Institute of Electrical and Electronics Engineers (IEEE), p. 1-6 6 p. (ETCM 2021 - 5th Ecuador Technical Chapters Meeting).

Coccinellidae beetle specimen detection using convolutional neural networks

Vega, M., Benítez, D. S., Perez, N., Riofrío, D., Ramon, G. & Cisneros-Heredia, D., 2021, *2021 IEEE Colombian Conference on Applications of Computational Intelligence – ColCACI*. Orjuela-Canon, A. D. (ed.). Piscataway, NJ: Institute of Electrical and Electronics Engineers (IEEE), p. 1-5 5 p. (2021 IEEE Colombian Conference on Applications of Computational Intelligence, ColCACI 2021 - Proceedings).

Observations on *Camposella insignata* (Diptera: Acroceridae) from the Tropical Andes of Ecuador

Tadashima-Rivera, A. G., Cisneros-Heredia, D. F., Ramos-Rojas, S. A. & Ramón-Cabrera, G. M., 2021, In: *Neotropical Biodiversity*. 7, 1, p. 523-529 7 p.

Towards automatic classification of mosquito species based on wing geometrical features

Carrillo, D., Benitez, D. S., Ramon, G. & Perez, N., 2020, *2020 IEEE ANDEAN CONFERENCE, Proceedings*. Piscataway, NJ: Institute of Electrical and Electronics Engineers (IEEE), p. 502-507 6 p.

Francisco Campos-Rivadeneira y Roberto Levi-Castillo: sus vidas y contribuciones al estudio de los mosquitos (Diptera: Culicidae) en Ecuador

Ramón, G. M., Pérez, R. & Jarrín, P., 1 May 2019, In: *Biomedica*. 39, Suppl. 1, p. 172-198 27 p.

Argia mauffrayi n. sp. from Ecuador (Odonata: Coenagrionidae)

Garrison, R. W. & Ramón Cabrera, G. M., Jan 2019, In: *Zootaxa*. 4545, 2, p. 286-292 7 p.

Movement of *Aedes aegypti* following a sugar meal and its implication in the development of control strategies in Durán, Ecuador

Qualls, W. A., Naranjo, D. P., Subía, M. A., Ramon, G., Cevallos, V., Grijalva, I., Gómez, E., Arheart, K. L., Fuller, D. O. & Beier, J. C., Dec 2016, In: *Journal of Vector Ecology*. 41, 2, p. 224-231 8 p.

Composition of a high diversity leaf litter ant community (hymenoptera: Formicidae) from an ecuadorian pre-montane rainforest

Donoso, D. A. & Ramón, G., 2009, In: *Annales de la Societe Entomologique de France*. 45, 4, p. 487-499 13 p.

Short term response of dung beetle communities to disturbance by road construction in the Ecuadorian Amazon

Carpio, C., Donoso, D. A., Ramón, G. & Dangles, O., 2009, In: *Annales de la Societe Entomologique de France*. 45, 4, p. 455-469 15 p.