

Sofía C. Garrido-Villegas

MSc Student
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Education

Master of Science, Psychology **2024-**
University of Alberta

Bachelor of Arts with First Class Honors, Biology **2020-2024**
Universidad del Rosario, Colombia

- Minors in Ecology and Psychology
- *Thesis*: “Social integration of new individuals to stable social groups” directed by Dr. Adriana Maldonado-Chaparro
- *Cumulative Grade Point Average*: 4.77/5

Research experience

Behavioural Ecology & Conservation research group **2022-2024**
Universidad del Rosario, Colombia

Bachelor's thesis: “Social integration of new individuals to stable social groups” in guinea pigs.

- Conducted a critical literature review and wrote the scientific article manuscript.
- Collected behavioural data and scored affiliative and aggressive behaviours in guinea pigs.
- Data analysis in R with an emphasis in social networks, learning and dominance hierarchies.

Animal Behaviour & Ecology incubator research group **2022-2024**
Universidad del Rosario, Colombia

Projects: Impact of artificial light on the behaviour of fireflies, Impact of urban pollution on the anti-predatory response of guinea pigs, Impacts of noise pollution on vocalizations of *Zonotrichia capensis*

- Formulated projects and contributed to their methodology design.
- Wrote scientific manuscripts and successful grant proposals.
- Planned outreach activities for other students to join the group, including informational videos, games and poster presentations.

Cognitive Ecology incubator research group **2022**
Universidad del Rosario, Colombia

- Designed experiments in relation to learning and cognition in bees (*Apis mellifera*).

- Support and development of laboratory skills.
- Carried out laboratory work with bees including brain dissections, preparation of specimens and training individuals using Pavlovian conditioning.

Teaching Experience

Teaching Assistant for Functional Biochemistry **2021-2022**

Universidad del Rosario, Colombia

- Designed tutoring sessions to reinforce the theoretical component and do practical exercises.
- Provided students with the necessary learning tools to become stronger problem solvers.
- Communicated with professors as needed to make sure the sessions were aligned with the curriculum.

Awards, Grants & Fellowships

Graduate Recruitment Scholarship **2024**

University of Alberta, Faculty of Graduate and Postdoctoral Studies
\$5000 CAD

IB (International Baccalaureate) Scholarship 100% **2020-2024**

Universidad del Rosario, Colombia
 Covered the tuition for the entirety of the undergraduate program

Honorable mention for academic merit **2020/22/23**

Universidad del Rosario, Colombia

Grant for research incubator groups **2023**

Universidad del Rosario, Colombia
 *Awarded collectively to the Animal Behaviour incubator research group.

Peer-reviewed publications

1. Hillón-Salas, J. S., Pineda-Dueñas, J. D., Romero-Chacón, A. M., Fonseca-Tellez, J., Cardona-Restrepo, M., **Garrido-Villegas, S. C.**, Mejía-Tovar, D., Arenas-Ríos, C., Gaitán-Botero, L., Barón-Garzón, Z. S., Robayo-Salek, A. F., Pulido-Guarín, H., Ovalle-Barrera, J. J., Macías-González, A. D., Bernal-Guatibonza, N., & Maldonado-Chaparro, A. A. (2024). Artificial Light at Night Reduces Flashing in Photinus and Photuris Fireflies During Courtship and Predation. *Journal of Insect Behavior*, 37(1), 49–57. <https://doi.org/10.1007/s10905-024-09849-8>

Conference Posters

- 2022** Hillón-Salas, J. S., Pineda-Dueñas, J. D., Romero-Chacón, A. M., Fonseca-Tellez, J., Cardona-Restrepo, M., **Garrido-Villegas, S. C.**, Mejía-Tovar, D., Arenas-Ríos, C., Gaitán-Botero, L., Barón-Garzón, Z. S., Robayo-Salek, A. F., Pulido-Guarín, H., Ovalle-Barrera, J. J., Macías-González, A. D., Bernal-Guatibonza, N., & Maldonado-Chaparro, A. A. Artificial Light at Night Reduces Flashing in Photinus and Photuris Fireflies During Courtship and Predation. *International Firefly Symposium*, Avintes, Portugal

Training & Certifications

Bias in Peer Review	2024
Canadian Institutes of Health Research	
Gender Based Analysis Plus (GBA+)	2024
Women and Gender Equality Canada	
Basic Animal Care & Use Part I	2024
University of Alberta	

Languages

Fluent in English and Spanish.

Other Activities

Student Council of Natural Sciences	2023
Universidad del Rosario, Colombia	
- Helped as delegate of the communications and social media axis. - Planned wellness activities for the students and faculty.	
Social volunteering	2018
Colegio Nueva Zelandia, Colombia	
Taught English classes to primary level students.	