Camilo Rodríguez, PhD.
Curriculum vitae

+(43) 660 2306056
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Djerassiplatz 1, 1030, Vienna - Austria

Profile: an enthusiastic, critical and hardworking behavioural biologist in both, the lab and the field. Interested in endocrinology, animal behaviour and bioacoustics. Passionate about herps and data science in R.

Research interest: behavioural ecology, behavioural endocrinology, data science, bioacoustics.

Expertise: hormones quantification/analysis, sound recording/analysis, behavioural experiments, experimental design, data analysis and visualization, research expeditions, scientific writing.

Languages: fluent in Spanish (mother tongue) and English. Basics in Portuguese.

Education

11/06/2017 – 02/23/2022	**PhD. in Biology**, doctoral program *"Cognition and Communication"*, thesis "*Examining the mechanisms underlying territorial trade-offs in a Neotropical poison frog: behavioural flexibility and sexual hormones*" under supervision of Prof. W. Hödl, University of Vienna, Austria.
08/01/2013 – 03/18/2016	**M.Sc. in Biology,** thesis "*Does testosterone correlate with the aposematic syndrome in Amazonian poison frogs?*" under supervision of Prof. A. Amézquita, Universidad de los Andes, Colombia.
02/02/2006 – 04/20/2012	**B.Ed. in Biology**, thesis "*Correlación entre el uso de perchas, propagación de cantos y tamaño del territorio en Allobates femoralis y Ameerega trivittata*", under supervision of Prof. A. García, Universidad Distrital Francisco José de Caldas, Colombia.

Professional experience

Research experience

April 2022 – Current	Collaborator, "*Nutritional tuning of tadpole behaviour*", Dr. M.-T. Fischer & Prof. L. O'Connell, Laboratory of Organismal Biology, Stanford University, USA. Current.
December 2021 – Current	Collaborator, "*Contrasting parental roles shape sex differences in poison frog space use but not navigational performance*", Dr. A. Pašukonis et al., Laboratory of Organismal Biology, Stanford University, USA. Current.
May 2021 – Current	Collaborator, *"Empathy in an early vertebrate, pair bonding poison frogs"*, Dr. J. Nowicky, BSc. J. Lee & Prof. L. O'Connell, Laboratory of Organismal Biology, Stanford University, USA. Current.
October 2019 – Current	PI, "*Testosterone correlates: the role of aromatase in poison frog aggression*", Laboratory of Organismal Biology (hosted by Prof. L. O'Connell), Stanford University, USA. 2019-current. Funded by the Company of Biologists.
October 2019 – Current	PI, *"Behavioural syndromes of steroid hormones: a non-invasive endocrinological approach to assess animal personalities in poison frogs"*, Natural reserve 'Les Nouragues', French Guiana, France. 2019-2020. Funded by ÖFFH (Austria) and CNRS (France).
April 2015 – July 2015	**Research assistant,** Grupo de Ecofisiología, Comportamiento y Herpetología (GECOH). Universidad de los Andes, Colombia.
December 2014 – December 2015	**Principal researcher,** project "*Chitridiomycosis and vocal effort: testosterone immunoredistribution hypothesis in Dendropsophus labialis*", Asociación Colombiana de Herpetología, Colombia.
May 2014 – July 2014	**Research assistant,** Grupo de Ecofisiología, Comportamiento y Herpetología (GECOH). Universidad de los Andes, Colombia.

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Teaching experience

January 2019	**Statistics Course for PhD's,** Department of Cognitive Biology, University of Vienna, Austria.
January -June 2017	**Professor-master's degree I,** course "*Statistical methods",* Universidad de la Salle, Colombia.
	Professor-master's degree I, course "*Experimental design",* Universidad de la Salle, Colombia.
	Professor-master's degree I, course "*Descriptive statistics",* Universidad de la Salle, Colombia.
August 2013 – November 2015	**Master's teaching assistant,** laboratory course "*Biopsychology",* Universidad de los Andes, Colombia.

Supervision

January 2020 – March 2020	**Training/supervision of field assistant B.Sc. L.F. Arcíla-Pérez** (Uniquindio, Colombia) in French Guiana: *Hormonally mediated social interactions: individual variation and the Challenge Hypothesis in Allobates femoralis*.
January 2019 – July 2019	**Training/supervision of field & research assistant B.Sc. G. Raboisson** in French Guiana and the University of Vienna: *Behavioural syndromes of steroid hormones: a non-invasive endocrinological approach to assess animal personalities in poison frogs*.

Recent fieldwork

2018 – 2020	**3 Field expeditions** (Approx. 9 months) on behavioural ecology and endocrinology in Neotropical poison frogs, CNRS Nouragues Ecological Research Station, French Guiana.

Consulting

May 2021 – current	**Data Scientist.** Laboratory of Organismal Biology, Stanford University. California, USA.
August 2016 – January 2017	**Herpetologist.** CORPOAMAZONIA & Universidad Distrital, Colombia.
April 2015 – September 2017	**Biostatistician.** Fundación Guayacanal, Colombia.

Grants

2019-2020	**PI**, Travelling Fellowship by the Company of Biologists: "Testosterone correlates: the roll of aromatase in poison frog aggression.", **2500£**.
2018-2019	**PI**, Austrian Research Grant for Herpetology (ÖFFH): "Behavioural syndromes of steroid hormones: a non-invasive endocrinological approach to assess animal personalities in poison frogs.", **3440€**.
2018-2019	**PI**, Nouragues Travel Grant by the French National Center of Scientific Research (CNRS): "Behavioural syndromes of steroid hormones: a non-invasive endocrinological approach to assess animal personalities in poison frogs.", **8340€**.
2014 – 2016	**PI**, Botas al campo Scholarship by Asociación Colombiana de Herpetología (ACH): "Chitridiomycosis and vocal effort: testosterone immunoredistribution hypothesis in *Dendropsophus labialis*.", **$2000000 COP**.
2014	**PI**, Seed project - Research Scholarship by Universidad de los Andes: "Effecto de la testosterona en la territorialidad y desempeño locomotor en dendrobatidos", **$3696000 COP**.

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2013 **PI**, Seed project - Research Scholarship by Universidad de los Andes: "Correlación entre el uso de perchas, propagacion de cantos y tamaño del territorio en *Allobates femoralis* y *Ameerega trivittata*", **$3537000 COP**.

Communication skills

- **Rodríguez, C.**, Fusani, L., Raboisson, G., Hödl, W., Ringler, E. and Canoine, V. (*2020*) "Androgen responsiveness to simulated territorial intrusions in *Allobates femoralis* males: evidence supporting the challenge hypothesis in a territorial frog." Video poster, COGSCI 2021 conference, July 26 – 28, 2021.
- **Rodríguez, C.**, Fusani, L., Raboisson, G., Hödl, W., Ringler, E. and Canoine, V. (*2020*) "Androgen responsiveness to simulated territorial intrusions in *Allobates femoralis* males: evidence supporting the challenge hypothesis in a territorial frog." Video poster, Virtual Meeting of the Society for Behavioural Endocrinology, June 28 – July 2, 2021.
- **Rodríguez, C.,** Amézquita, A., Ringler, M., Pašukonis, A. & Hödl W. "Perch higher and be quieter: acoustic adaptation and sound radiation patterns in *Allobates femoralis*." Oral presentation, Behaviour conference, Chicago, Illinois – USA, July 23-27, 2019.
- **Rodríguez, C.,** Amézquita, A., Ringler, M., Pašukonis, A. & Hödl W. "Perch higher and be quieter: acoustic adaptation and sound radiation patterns in *Allobates femoralis*." Oral presentation, 20th European Congress of Herpetology, Milan – Italy, September 2-7, 2019.
- **Rodríguez, C.** & Beltran, I. "Quitridiomicosis y esfuerzo vocal: Hipótesis de la inmunoredistribución de la testosterona en *Dendropsophus labialis* (Anura: Hylidae)." Oral presentation, I Colombian Congress of Herpetology, Medellin – Colombia, November 20-24, 2016.
- **Rodríguez, C.** & Amézquita, A. Perch heights, calls and neighbours: "Correlates in *Allobates femoralis* and *Ameerega trivittata* (Anura: Dendrobatidae)." Oral presentation, X Latin-American Congress of Herpetology, Cartagena – Colombia, December, 1-5, 2014
- Amézquita, A., Hödl, W., P. Lima, A., **Rodríguez, C.** & Starnberger, I. "The adaptative value of conspicuous coloration in anurans: selection preasures and asociated phenotypic traits." Oral presentation at the X Latin-American Congress of Herpetology in Cartagena - Colombia.

Publication record

1. Pašukonis, A., Serrano-Rojas, S. J., Fischer, M-T., Loretto, M-C., Shaykevich, D. A., Rojas, B., Ringler, M., Roland, A. B., Marcillo-Lara, A., Ringler, E., **Rodríguez, C.,** Coloma, L. A., O'Connell, L.A., "*Contrasting parental roles shape sex differences in poison frog space use but not navigational performance*" bioRxiv 2022.05.21.492915; doi: https://doi.org/10.1101/2022.05.21.492915
2. **Rodríguez, C.**, Fusani, L., Raboisson, G., Hödl, W., Ringler, E. and Canoine, V. (*2022*) Androgen responsiveness to simulated territorial intrusions in *Allobates femoralis* males: evidence supporting the challenge hypothesis in a territorial frog. *General and Comparative Endocrinology*, 326 – 114046.
3. Bettoni, S., Stoeger, A., **Rodríguez, C.,** and Fitch, W.T. (*2021*) Airborne vocal communication in adult neotropical otters (*Lontra longicaudis*). *PLOS ONE*, 16: e0251974.
4. Chaloupka, S., and **Rodríguez, C.** (*2021*) Predation by *Leptophis ahaetulla* (Serpentes: Colubridae) on *Osteocephalus cabrerai* (Anura: Hylidae), with a description of its distress call. *Herpetology Notes*, 14: 209-213.
5. **Rodríguez, C.**, Amézquita, A., Ringler, M., Pašukonis, A. and Hödl, W. (*2020*) Calling amplitude flexibility and acoustic spacing in the territorial frog *Allobates femoralis*. *Behavioral Ecology and Sociobiology* 74: 76.
6. **Rodríguez, C.**, and Hödl, W. (*2020*). Sound radiation pattern of the advertisement call of the highly territorial poison frog *Allobates femoralis*. *Behavioural processes*, 170: 103996.
7. Yeager, J., Zarling, A. and **Rodríguez, C.** (*2019*) Successful multimodal amphibian defence, handling and recovery costs to would-be predators. *Herpetology Notes*, 12: 279-280.
8. Beltrán, I., Ramírez-Castañeda, V., **Rodríguez, C.**, Lasso, E. and Amézquita, A. (*2019*). Dealing with hot rocky environments: Critical thermal maxima and locomotor performance in *Leptodactylus lithonaetes* (Anura: Leptodactylidae). *Herpetological Journal*, 29: 155-161.

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9. Amézquita, A., Suárez, G., Palacios-Rodríguez, P., Beltran, I., **Rodríguez, C.**, Barrientos, L. S., Daza, J. M. and Mazariegos, L. (*2019*). A new species of *Pristimantis* (Anura: Craugastoridae) from the cloud forest of the Colombian Northwestern Andes. *Zootaxa*, 3: 537-548.

10. Amézquita, A., Ramos, Ó., González, M. C., **Rodríguez, C**., Medina, I., Simões, P. I. and Lima, A. P. (2017), Conspicuousness, colour resemblance, and toxicity in geographically diverging mimicry: The pan-Amazonian frog *Allobates femoralis*. *Evolution*, 71: 1039–1050.
11. **Rodríguez, C**., and D.M. Pinto. (2013). *Osteocephalus subtilis* Martins and Cardoso, 1987 (Anura: Hylidae): New distribution record. *Check List*, 9 (1): 116-117.

Academic references

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