




FRANCISCO XAVIER CASTELLANOS INSUASTI

I am Master of Science in Biology student at the Ray Lab. My research focuses on the characterization and use of a particular type of Transposable Element to be used in phylogenetic hypotheses across the Chiropteran (bat) clade. I am also fascinated by bat immunity, specifically the innate immune response.







EDUCATION

- Present
|
2021
- **MS Student, Biology**
Texas Tech University. The Ray Laboratory.  Lubbock, USA
 - **B.S. Genetics**
Laboratorio de Genética Evolutiva, Universidad Nacional de Misiones  Posadas, Argentina
 - Thesis: Cytogenetic and molecular studies in some species of the Genus *Myotis* (Chiroptera: Vespertilionidae: Myotinae) in Northern Argentina.

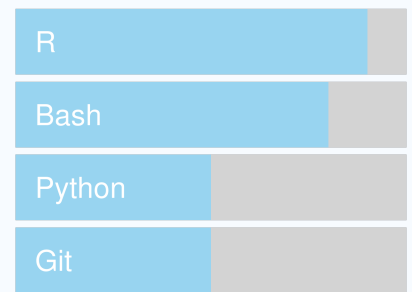
RESEARCH EXPERIENCE

- Present
|
2021
- **Collaborator**
The Ray Laboratory, Texas Tech University  Lubbock, USA
 - RAPID: Immunological adaptations in bats to moderate the effect of coronavirus infection.
 - RoL: FELS: EAGER: Collaborative Research: Genomics of exceptions to scaling of longevity to body size.
 - **Research Assistant**
Andean Bear Foundation  Quito, Ecuador
 - Large Mammals Project in Parque Nacional Cayambe Coca, Zona Alta.

CONTACT

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 frcastel.com
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 linkedin.com/frcastel

TECH SKILLS



LANGUAGES



Download as a PDF
Made w/ [pagedown](#).
Source code: [Github repo](#).
Last updated on 2022-09-01.

Present
|
2020



Associated Researcher

INABIO

📍 Quito, Ecuador

- I lead projects that seek to study the behavior of large mammals by means of analyzing tracking data.
- I am looking to understand how large mammals make use of their natural habitat and what variables impact on how they move across their home ranges.



PROFESSIONAL EXPERIENCE

2021



Thesis Evaluating Committee

Universidad Distrital Francisco José de Caldas

📍 Bogotá, Colombia

- Thesis: "Biological knowledge status of the subfamily Stenodermatinae (Gervais, 1856): a cytogenetic revision within an evolutionary framework"

2018
|
2015



Field Assistant

Laboratorio de Genética Evolutiva, Universidad Nacional de Misiones

📍 Posadas, Argentina

- Primarily working with large EHR and Biobank datasets.
- Developing network-based methods to investigate and visualize clinically relevant patterns in data.



TEACHING EXPERIENCE

Present



Introduction to Telemetry and Ecology of Large Mammals

Andean Bear Foundation

📍 Online

- Covered introduction to R language and basic Stats
- Medium level

Fall 2021
& 2022



BIOL 1403 (BIOL I)

Department of Biological Sciences,
Texas Tech University

📍 Lubbock, USA

- Laboratory TA

Spring
2022



BIOL 1403 (BIOL II)

Department of Biological Sciences,
Texas Tech University

📍 Lubbock, USA

- Laboratory TA
- Graduate level class

Summer
2022



BIOL 3416 (Genetics)

Department of Biological Sciences,
Texas Tech University

📍 Lubbock, USA

- Laboratory TA
- Topics covered from Mendelian genetics, Morgan's experiments
- Highest level course offered in department



SELECTED PRESS (ABOUT)

2021



Estudio reporta patrones de movimiento y estimaciones de rango de hogar del zorro andino

[INABIO News](#)



PUBLICATIONS

2021



A pilot study on the home range and movement patterns of the Andean Fox *Lycalopex culpaeus* (Molina, 1782) in Cotopaxi National Park, Ecuador.

Castellanos, A., Castellanos, F. X., Kays, R. and Brito, J. (2021). *A pilot study* on the home range and movement patterns of the Andean Fox *Lycalopex culpaeus* (Molina, 1782) in Cotopaxi National Park, Ecuador. *Mammalia* 86(1), 22-26. <https://doi.org/10.1515/mammalia-2020-0195>

2020



Tapirus pinchaque in Western Ecuador

Castellanos, A., Brito, J. and Castellanos, F. X.. (2020). *Tapirus pinchaque* in Western Ecuador. Museum of Zoologic Research IASA, Technical Bulletin, Zoologic Series 16:1-4.

2019



Glyphonycteris, O. Thomas, 1896 (Chiroptera: Phyllostomidae: Glyphonycterinae), a new genus of bats for Argentina, with commentary on its karyotype.

Sánchez, M.S., Labaroni C.A., Castellanos, F. X. and Baldo, D.J. *Glyphonycteris*, O. Thomas, 1896 (Chiroptera: Phyllostomidae: Glyphonycterinae), a new genus of bats for Argentina, with commentary on its karyotype. *Mastozoología Neotropical*, 26(2):420-429. <https://doi.org/10.31687/saremMN.19.26.2.0.12>

2019



Panthera onca

Castellanos, A., Castellanos, F. X., and Vallejo, A.F. 2019. *Panthera onca* In: Brito, J., Camacho, M. A., Romero, V. Vallejo, A. F. (eds). *Mamíferos del Ecuador*. Version 2018.0. Zoology Museum, Pontificia Universidad Católica del Ecuador. Online access: <https://bioweb.bio/faunaweb/mammaliaweb/FichaEspecie/Panthera%20onca>



CONFERENCE PRESENTATIONS

August
2022

- **deAMPlifying the Immune Response: Antimicrobial Peptides Evolution in Chiroptera**

Castellanos, F. X., Moreno-Santillán, D., Corthals, A., Martin, K., Moore, M.S., Lim, M., Lama, T.M., Paulat, N., Sipperly, N., Davalos, L.M., Ray, D.A.
19th IBCR - 50th NASBR.

📍 Austin, USA

October
2018

- **Chromosomal studies in some species of the genus *Myotis* (Chiroptera: Vespertilionidae) from Northern Argentina.**

Castellanos, F. X., Labaroni C.A., Ferro, J.M., Taffarel, A., Baldo, D.J, and Sánchez, M.S. XXXI Argentine Conference of Mastozoology.

📍 La Rioja, Argentina



AWARDS

2019

- **Science and Technology Scholarship**

Laboratorio de Genética Evolutiva, Universidad Nacional de Misiones

📍 Posadas, Argentina

Fall 2022

- **Study Abroad Competitive Scholarship**

The Ray Laboratory, Texas Tech University

📍 Lubbock, USA

Summer
2022

- **General Fellowships for New and Continuing Graduate Students**

The Ray Laboratory, Texas Tech University

📍 Lubbock, USA