
RESEARCH INTERESTS

(Character Evolution, Evolutionary Biology, Phylogenetics, Genomics, Biogeography, Animal Behavior)

My research interests span evolutionary, ecological, and biogeographical approaches toward a better understanding of biodiversity, with a special emphasis on Andean ecosystems. Currently, I am working on evaluating the role that Andean orogeny has played in the diversification of three species groups of *Pristimantis* frogs distributed through altitudinal gradients, from cloud forest to páramo environments.

EDUCATION

Bachelor of Biological Sciences

March 2017

Pontificia Universidad Católica del Ecuador

Dissertation title: “Systematics of the *Pristimantis chloronotus* species group (Anura, Craugastoridae) with insights into their historic biogeography”

Available at: <http://repositorio.puce.edu.ec/handle/22000/12868>

Committee: Andrés Merino, PhD., Omar Torres-Carvajal, PhD., Santiago R. Ron, PhD. (Advisor)

PUBLICATIONS

Published & In Press.

Navarrete M.J., Venegas P.J., Ron S.R. 2016. Two new species of frogs of the genus *Pristimantis* from Llanganates National Park in Ecuador with comments on the regional diversity of Ecuadorian *Pristimantis* (Anura, Craugastoridae). *ZooKeys* 593: 139–162. <https://doi.org/10.3897/zookeys.593.8063>

Manuscripts In Press & In Prep.

Sánchez-Nivicela J.C., Urgiles V.L., **Navarrete M.J.**, Yáñez-Muñoz M., Ron S. *In press*. A bizarre new species of *Lynchius* (Amphibia, Anura, Strabomantidae) from the Andes of Ecuador and first report of *Lynchius parkeri* in Ecuador. *Zootaxa*.

Reyes-Puig C., Reyes-Puig J. P., Velarde-Garcés D., Dávalos N., Mancero E., **Navarrete M.J.**, Yáñez-Muñoz M.H., Cisneros-Heredia D. F., Ron S. R. *In press*. A new species of terrestrial frog *Pristimantis* (Anura, Strabomantidae) from the upper basin of the Pastaza River, Ecuador. *Zootaxa*.

Navarrete M.J., Páez-Rosales N., Yáñez-Muñoz M., García J., Ron S.R. *In prep*. Systematics of the *Pristimantis chloronotus* species group (Anura, Strabomantidae) with insights into their historic biogeography. *Molecular Phylogenetics and Evolution*.

PRESENTATIONS

Oral presentations

- V Colombian Congress of Zoology** **2018**
Bogotá, Colombia
Navarrete M. J., and Ron S. “Filogeografía comparada de dos clados andinos de *Pristimantis* (Anura, Strabomantidae) sugiere origen temprano de hábitats fríos”.
- XI Latin American Herpetology Congress** **2017**
Quito-Ecuador
Navarrete M. J., and Ron S. “Sistemática del grupo de especies de *Pristimantis chloronotus* (Anura: Craugastoridae) con comentarios en su historia biogeográfica”.
- XL National Conference of Biology** **2016**
Guayaquil-Ecuador
Navarrete M. J., and Ron S. “Sistemática del grupo de especies de *Pristimantis chloronotus* (Anura: Craugastoridae) con comentarios en sus tiempos de divergencia y origen altitudinal”.
- X Latin American Herpetology Congress** **2014**
Cartagena-Colombia
Navarrete M. J., and Ron S. “Resultados preliminares del trabajo: Sistemática del grupo de especies de *Pristimantis chloronotus* (Anura: Craugastoridae)”.

PEER REVIEW

- Zootaxa** — 2 reviews **2018**

FELLOWSHIPS

- Undergraduate Scholarship** **July, 2016 – March, 2017**
(\$1600)
Pontificia Universidad Católica del Ecuador

PRE-PROFESSIONAL EXPERIENCE

- Curatorial Assistant in Museum of Zoology QCAZ – Amphibian division, Pontificia Universidad Católica del Ecuador** **2016–2017**
Santiago R. Ron, PhD
- Field Assistant in the project “La diversidad funcional como mecanismo estratégico para la supervivencia y coexistencia de plantas en un bosque hiper-diverso dentro del Parque Nacional Yasuní”** **2016**
Rafael E. Cárdenas, PhD
- Student assistant and internship in Museum of Zoology QCAZ – Amphibian division, Pontificia Universidad Católica del Ecuador** **2014–2016**
Santiago R. Ron, PhD

PROFESSIONAL EXPERIENCE

Field Assistant in the course of Diversity of Amphibians and Reptiles in the Yasuni National Park by the program of Evolutionary Biology of University of Toronto 2018
Luke Mahler, PhD

Researcher assistant in Division of Herpetology- Museum of Zoology QCAZ, Pontificia Universidad Católica del Ecuador 2017–present
Tasks: Field collection of specimens, review and morphological characterization of the specimens deposited in the Museum of Zoology QCAZ. Molecular and morphological analyses of frogs (i.e. *Pristimantis*, *Lynchius*). Development of scientific publications. Description of new species.

TRAINING

“Fundamentos de programación en R”, Universidad San Francisco de Quito (USFQ), PhD Sebastián Tello. 15th–16th August, 2016

“Técnicas genómicas en biodiversidad”, Pontificia Universidad Católica del Ecuador, PhD Patricia Salerno. 28th February–present

SKILLS

Field

Field observation, data collection and sampling experience in herpetology. Scuba-diving certification (Open water).

Laboratory

Manipulating frogs (euthanasia of frogs, extraction of tissue), DNA extraction, PCR protocols

Computer and analysis

Mesquite, MrBayes, Garli, BEAST, BAMM, R statistics (basic proficiency), Python (basic proficiency), SPSS, JMP, ArcGis, Diva-Gis, Adobe Photoshop and Illustrator.

Languages

High proficiency in English (TOEFL certificate) and Spanish (native language).

INTERVIEWS

Secretaría Educación Superior Ec 2016
Interviewed by the Ecuadorian Department of Education about the description of two new species of *Pristimantis*. <https://www.youtube.com/watch?v=XE5uXSkmwjA>