

CURRICULUM VITAE

Andrés Valenzuela Sánchez



I am a conservationist, veterinarian, and PhD in Conservation Medicine. I am also the co-founder and president of Ranita de Darwin NGO, a non-profit organization working in the conservation of Chilean amphibians and their habitats. I am member of the IUCN SSC Amphibian Specialist Group and co-chair of its Communication & Education Working Group. I am particularly interested in the broad fields of conservation biology and translational ecology, and in applied studies in population and disease ecology. During the last six years I have secured +180,000 USD as principal investigator.

Contact information can be found at the end of this resume.

Formal education

2013-2017	PhD in Conservation Medicine (<i>summa cum laude</i>), Faculty of Ecology and Natural Resources, Universidad Andrés Bello, Chile and Institute of Zoology, Zoological Society of London, United Kingdom (Overseas PhD Student).
2016	Internship at the Department of Evolutionary Biology and Environmental Studies, University of Zurich with Dr. Benedikt Schmidt (http://www.ieu.uzh.ch/en/research/ecology/amphibians.html)
2006-2011	Veterinary degree, School of Veterinary Medicine, Universidad Andrés Bello, Chile.

Awards and Grants as principal investigator

2020	Support to publish the second edition of the science pop book: “Descubriendo la Ranita de Darwin” (Discovering the Darwin’s Frog). Ministerio de las Culturas, las Artes y el Patrimonio, Gobierno de Chile. (7,100 USD)
2018-2020	Postdoctoral Fellowship FONDECYT de postdoctorado (No. 3180107): Spatial and temporal dynamics of an emerging multi-species host-parasite system. Fondo Nacional de Desarrollo Científico y Tecnológico, Gobierno de Chile. (103,000 USD)
2019-2020	Grant Recovery of Species on the Brink of Extinction (No. NGS-61629C-19): Leaping into action: saving southern Darwin’s frogs with evidence-based conservation, National Geographic Society, USA. (41,000 USD)
2018-2019	Rufford Booster Grant (No. 23952-B): Leaping into action: research and mitigation against chytridiomycosis in the Darwin's frog. The Rufford Foundation, United Kingdom. (13,000 USD)
2016-2017	Rufford Small Grant (No. 19017-2): Chytridiomycosis in the endangered Darwin's frogs: developing models for their conservation. The Rufford Foundation, United Kingdom. (6,500 USD)
2017	Future For Nature Award nominee, Future For Nature Foundation, The Netherlands.

2016	Partial scholarship (food and accommodation) to attend with an oral presentation the 8th World Congress of Herpetology 2016, China, provided by the organizing committee of the congress to selected students.
2016-2017	Grant for the writing of the science pop book: “Descubriendo la Ranita de Darwin” (Discovering the Darwin’s Frog). Ministerio de las Culturas, las Artes y el Patrimonio, Gobierno de Chile. (3,000 USD)
2014-2015	Rufford Small Grant (No. 14460-1): Is Chytridiomycosis a Threat to the Mouth-Brooding Darwin’s Frog (<i>Rhinoderma darwinii</i>)? : A Disease Risk Assessment. The Rufford Foundation, United Kingdom. (6,500 USD)
2014-2015	PhD Student Research Grant (No. DI-582-14/I): Is Chytridiomycosis a Threat to the Mouth-Brooding Darwin’s Frog (<i>Rhinoderma darwinii</i>)? : A Disease Risk Assessment. Vicerrectoría de Investigación y Doctorados, Universidad Andrés Bello, Chile. (5,000 USD)

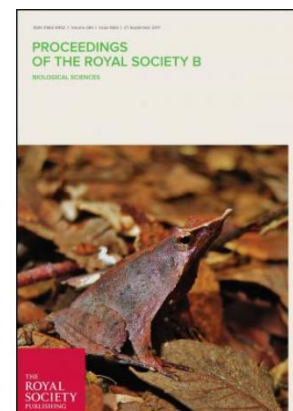
Academic and professional activity

2018- present	Postdoctoral researcher, Instituto de Ciencias Ambientales y Evolutivas, Facultad de Ciencias, Universidad Austral de Chile.
2015- present	President and co-founder, Ranita de Darwin NGO (www.ranitadedarwin.org).
2019-present	Co-chair (global), Communication & Education Working Group, IUCN SSC Amphibian Specialist Group.
2019- present	Member, Chilean section IUCN SSC Amphibian Specialist Group (ASG).
2018- present	Associate researcher, Centro de Investigación para la Sustentabilidad, Universidad Andrés Bello, Chile.
2012-2017	Academic, “Zoonoses and Emerging Diseases” course, Veterinary Medicine School, Universidad Andrés Bello, Chile.
2012-2013	Instructor, “Zoology” course, Department of Ecology and Biodiversity, Universidad Andrés Bello, Chile.

Publications in indexed peer-reviewed journals

2020	Serrano JM, Penna M, Valenzuela-Sánchez A, Mendez MA & Azat C (2020) Monomorphic call structure and dimorphic vocal phenology in a sex-role reversed frog. Behavioral Ecology and Sociobiology 74: 1–13. Azat C, Valenzuela-Sánchez A, Delgado S, Cunningham AA, Alvarado-Rybak M, Bourke J, ... & Ariadne A (2020) A flagship for Austral temperate forest conservation: an action plan for Darwin's frogs brings key stakeholders together. Oryx 1-8. Cayuela H, Valenzuela-Sánchez A, Teulier L, Martínez-Solano Í, Léna J-P, Merilä J, Muths E, Shine R, Quay L, Denoël M, Clobert J, Schmidt BR (2020) Determinants and consequences of dispersal in vertebrates with complex life cycles: a review of pond-breeding amphibians. The Quarterly Review of Biology 95: 1–36.
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Journal Covers



2019

Niederle MV, Bosch J, Ale CE, Nader-Macías ME, Aristimuño Ficooseco C, Toledo LF, **Valenzuela-Sánchez A**, Soto-Azat C, Pasteris SE (2019) Skin-associated lactic acid bacteria from North American bullfrogs as potential control agents of *Batrachochytrium dendrobatidis*. PLoS ONE 14: e0223020.

Bacigalupe LD, Vásquez IA, Estay SA, **Valenzuela-Sánchez A**, Alvarado-Rybak M, Peñafiel-Ricaurte A, Cunningham AA, Soto-Azat C (2019) The amphibian-killing fungus in a biodiversity hotspot: Identifying and validating high-risk areas and refugia. Ecosphere 10: e02724.

Valenzuela-Sánchez A, Cayuela H, Schmidt BR, Cunningham AA, Soto-Azat C (2019) Slow natal dispersal across a homogeneous landscape suggests the use of mixed movement behaviours during dispersal in the Darwin's frog. Animal Behaviour 150: 77–86.

Valenzuela-Sánchez A, Schmidt BR, Pérez C, Altamirano T, Toledo V, Pérez Í, Teillier S, Cunningham AA, Soto-Azat C (2019) Assessing habitat quality when forest attributes have opposing effects on abundance and detectability: a case study on Darwin's frogs. Forest Ecology and Management 432: 942–948.

2018

Molina-Burgos BE, **Valenzuela-Sánchez A**, Alvarado-Rybak M, Klarian S, Soto-Azat C. (2018) Trophic ecology of the endangered Darwin's frog inferred by stable isotopes. Endangered Species Research 36: 269–278.

Fisher MC et al. (2018) Development and worldwide use of a non-lethal and minimal population-level impact protocols for the isolation of chytrids from amphibians. Scientific Reports 8: 7772.

O'Hanlon SJ, et al. 2018. Recent Asian origin of chytrid fungi causing global amphibian declines. Science 360: 621-627.

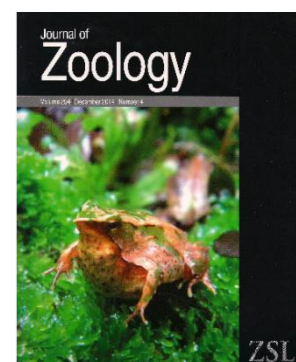
Mario Alvarado-Rybak, **Andrés Valenzuela-Sánchez**, Aitor Cevitanes, Alexandra Peñafiel-Ricaurte, David E. Uribe-Rivera, Edgardo Flores, Andrew A. Cunningham, Claudio Soto-Azat (2018) High prevalence of chigger mite infection in a forest-specialist frog with evidence of parasite-related granulomatous myositis. Parasitology Research 117: 1643–1646.

Valenzuela-Sánchez A, O'Hanlon S, Alvarado-Rybak M, Uribe-Rivera DE, Cunningham AA, Fisher MC, Soto-Azat C (2018) Genomic epidemiology of the emerging pathogen *Batrachochytrium dendrobatidis* from native and invasive amphibian species in Chile. Transboundary and Emerging Diseases 65: 309–314.

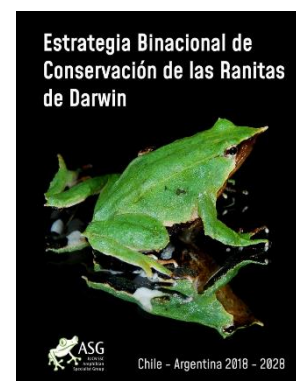
2017

Valenzuela-Sánchez A, Schmidt BR, Uribe-Rivera DE, Costas F, Cunningham AA, Soto-Azat C (2017) Cryptic disease-induced mortality may cause host extinction in an apparently stable host–parasite system. Proceedings of the Royal Society B 284: 20171176.

Uribe-Rivera DE, Soto-Azat C, **Valenzuela-Sánchez A**, Bizama G, Simonetti JA, Plischoff P (2017) Dispersal and extrapolation on the accuracy of temporal predictions from distribution models for the Darwin's frog. Ecological Applications 27: 1633–1645



Book covers



- 2015 **Valenzuela-Sánchez A**, Cunningham AA & Soto-Azat (2015) Geographic body size variation in ectotherms: effects of seasonality on an anuran from the southern temperate forest. *Frontiers in Zoology* 12:37.
- 2014 **Valenzuela-Sánchez A**, Harding G, Cunningham AA, Chirgwin C, Soto-Azat C (2014) Home range and social analyses in a mouth brooding frog: testing the co-existence of paternal care and male territoriality. *Journal of Zoology* 294:215-223.
- Valenzuela-Sánchez A** & Medina-Vogel G (2014) Importancia de las enfermedades infecciosas para la conservación de la fauna silvestre amenazada de Chile. *Gayana* 78(1):41-53.
- 2013 Soto-Azat C, **Valenzuela-Sánchez A**, Clarke BT, Busse K, Ortiz JC, Barrientos C & Cunningham AA (2013) Is chytridiomycosis driving Darwin's Frogs to extinction?. *PloS ONE* 8(11):e79862.
- Soto-Azat C, **Valenzuela-Sánchez A**, Collen B, Rowcliffe MC Veloso A & Cunningham AA (2013) The population decline and extinction of darwin's frogs. *PLoS ONE* 8(6):e66957.



Books, books chapters and other publications

- 2018 IUCN SSC Amphibian Specialist Group Chile (2018) Estrategia Binacional de Conservación de las Ranitas de Darwin. Santiago, Chile (In charge of the Species Status Review, and edition and design of the book).
- 2017 **Valenzuela-Sánchez A** & Delgado S (2017) Descubriendo a la ranita de Darwin. Acquarelas Nativas, Santiago, Chile.
- 2015 Soto-Azat C, **Valenzuela-Sánchez A**, Ortiz JC, Díaz-Páez H, Castro C, et al. (2015) ASG Chile Leads Update of the Extinction Risk of Chilean Amphibians for The IUCN Red List of Threatened Species. *FrogLog* 116:6-7.
- 2012 **Valenzuela-Sánchez A** & Soto-Azat, C (2012) Productividad y Redes de Colaboración de la Herpetología en Chile. *Boletín de Biodiversidad de Chile* 7: 1–11.
- Valenzuela-Sánchez A** & Soto-Azat, C (2012) Conservación de anfibios de Chile. Universidad Andrés Bello, Santiago, Chile.
- Valenzuela-Sánchez A** (2012) Cambio climático: efecto sobre los anfibios. En: Soto-Azat C & Valenzuela-Sánchez A (Eds.) pp:42-47
- Soto-Azat C, Cuevas C, Flores E & **Valenzuela-Sánchez A** (2012) Conservación de *Telmatobufo bullocki* (Sapo de Bullock) y su hábitat en los bosques amenazados de Nahuelbuta. In: Soto-Azat C & Valenzuela-Sánchez A (Eds.) Conservación de anfibios de Chile. Universidad Andrés Bello, Santiago, Chile. pp: 70-75.
- Soto-Azat C & **Valenzuela-Sánchez A** (2012) Conservación de anfibios y programa EDGE. In: Soto-Azat C & Valenzuela-Sánchez A (Eds.)

Conservación de anfibios de Chile. Universidad Andrés Bello, Santiago, Chile. pp: 3-17.

2010

Valenzuela-Sánchez A (2010) Lipidosis Hepática en Aves Exóticas y de Zoológico. Hospitales Veterinarios 2(3):3-8.

Other skills and information

Proficiency in: R (medium), BUGS language for Bayesian analyses (basic), graphic design (Photoshop, InDesign, Inkscape; medium).

Reviewer in journals and scientific meetings: Animal Conservation, Biological Conservation, Biotropica, PLoS ONE, Ecology and Evolution, Journal of Natural History, International Journal for Parasitology: Parasites and Wildlife, Zoologia, Corpoica Ciencia y Tecnología Agropecuaria, IX Congreso Chileno de Herpetología.

Contact information

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