

Senior Lecturer in Evolutionary Biology
Laboratory of Evolutionary Ecology of Adaptations
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BRIEF SUMMARY

Evolutionary biologist interested in selection theory, adaptive evolution, speciation, macroecology, climate change biology and conservation. Author of 60+ papers and 3 books. My research has been featured in the media globally. I hold a Visiting Professorship of Evolutionary Ecology at the Universidade Vale Rio dos Sinos (Brazil).

APPOINTMENTS AND EDUCATION

2014- **Senior Lecturer in Evolutionary Biology**, School of Life Sciences, University of Lincoln, UK.
2015- **Visiting Professor of Evolutionary Ecology**, Universidade Vale Rio dos Sinos (Brazil)
2012-2014 **Lecturer in Evolutionary Biology**, School of Life Sciences, University of Lincoln, UK.
2009-2012 **Leverhulme Postdoctoral Research Fellow**, University of Exeter, UK
2009 **NERC Postdoctoral Researcher**, University of Exeter, UK
2008-2009 **NERC Postdoctoral Researcher**, University of Exeter, UK
2005-2008 **PhD (Evolutionary Biology)**, University of Exeter, United Kingdom.
Thesis: *Adaptive radiation and speciation in Liolaemus lizards* (With Tom Tregenza & David Hodgson).
2003-2005 **Junior Research Associate in Zoology**, National Museum of Natural History of Chile.
2003 **BSc (Hons) Biology**, University of Concepcion, Chile.

AWARDS AND HONOURS

I have got several awards/honours, including Plenary Talks and an Annual Named Lecture, a recognition as “*one of the 55 most distinguished and internationally renowned reptile experts in the world*” (biography appeared in a book), Honorary Research Fellowships (e.g., National Museum of Natural History of Chile), the Fellowship of British Higher Education Academy, the “Department of Zoology Prize” University of Concepcion, Chile (Best young researcher 2003), among others.

RESEARCH FUNDING

I have been granted over **US\$480,000** for research from a range of Research Funding bodies, including the Leverhulme Trust, NERC Mass Spectrometry Facility, Internal Competitive Funding from Univ of Lincoln, Universities UK, and others.

PUBLICATIONS

Books

Pincheira-Donoso, D. (In Prep). *The Law Code of Nature*. In Preparation – Expected early 2016
Pincheira-Donoso, D. (2012). *Selection and Adaptive Evolution*. PUC Press. 448 pp.
Pincheira-Donoso, D. & H. Núñez. (2005). *Liolaemus Lizard Species of Chile. Taxonomy, Systematics and Evolution*. National Museum of Natural History of Chile Press, 486 pp.
Ramírez, G.M. & **D. Pincheira-Donoso.** (2005). *Fauna of the High Andes and Atacama Desert*. Phrynosaura Press, 396 pp.

Journal Papers (refereed) (15 selected out of 60+)

Pincheira-Donoso, D., Harvey, L.P. & Ruta, M. (2015). What defines an adaptive radiation? Macroevolutionary diversification dynamics of an exceptionally species-rich continental lizard radiation. **BMC Evolutionary Biology**, 15: 153. ([Highly Accessed Paper](#))
Scharf, I., Feldman, A., Novosolov, M., **Pincheira-Donoso, D.**, Das, I., Bohm, M., Uetz, P., Torres-Carvajal, O., Bauer, A., Roll, U. & Meiri, S. (2015). Late bloomers and baby boomers: an analysis of ecological drivers of lepidosaur longevity. **Global Ecology & Biogeography**, 24, 396-405.
Meiri, S., Kadison, A., Novosolov, M., Pafilis, P., Fouvopoulos, J., Itescu, Y., Raia, P. & **Pincheira-Donoso, D.** (2014). The number of competitor species is unlinked to sexual dimorphism. **Journal of Animal Ecology**, 83, 1302-1312.
Pincheira-Donoso, D., Tregenza, T., Witt, M.J. & Hodgson, D. J. (2013). The evolution of viviparity opens opportunities for lizard radiation but drives it into a climatic cul-de-sac. **Global Ecology & Biogeography**, 22, 857-867.
Meiri, S., Bauer, A., Chirio, L., Colli, G., Das, I., Doan, T., Feldman, A., Castro-Herrera, F., Novosolov, M., Pafilis, P., **Pincheira-Donoso, D.**, Powney, G., Torres-Carvajal, O., Uetz, P. & Van Damme, R. (2013). Are lizards feeling the heat? A tale of ecology and evolution under two temperatures. **Global Ecology & Biogeography**, 22, 834-845.
Pincheira-Donoso, D., Bauer, A., Meiri, S. & Uetz, P. (2013). Global taxonomic diversity of living reptiles. **PLoS One**, 8, e59741.
Pincheira-Donoso, D. & Meiri, S. (2013). An intercontinental analysis of climate-driven body size clines in reptiles: no support for patterns, no signals of processes. **Evolutionary Biology**, 40, 562-578.
Pincheira-Donoso, D. (2011). Predictable variation of range sizes across an extreme environmental gradient in a lizard adaptive radiation: evolutionary and ecological inferences. **PLoS One**, 6, e28942.

- Gay, L., Brown, E., Tregenza, T., **Pincheira-Donoso, D.**, Eady, P., Vasudev, R., Hunt, J. & Hosken, D. (2011). The genetic architecture of sexual conflict: male harm and female resistance in *Callosobruchus maculatus*. **Journal of Evolutionary Biology**, 24, 449-456.
- Pincheira-Donoso, D.** & Tregenza, T. (2011). Fecundity selection and the evolution of reproductive output and sex-specific body size in the *Liolaemus* lizard adaptive radiation. **Evolutionary Biology**, 38, 197-207.
- Pincheira-Donoso, D.** (2010). The balance between predictions and evidence and the search for universal macroecological patterns: taking Bergmann's rule back to its endothermic origin. **Theory in Biosciences**, 129, 247-253.
- Pincheira-Donoso, D.**, D.J. Hodgson, J. Stipala & T. Tregenza. (2009). A phylogenetic analysis of sex-specific evolution of ecological morphology in *Liolaemus* lizards. **Ecological Research**, 24, 1223-1231.
- Pincheira-Donoso, D.**, D.J. Hodgson & T. Tregenza (2008). The evolution of body size in ectotherms: why should Bergmann's rule apply to lizards? **BMC Evolutionary Biology**, 8, 68-78. (*Highly Accessed Paper*)
- Pincheira-Donoso, D.**, D.J. Hodgson & T. Tregenza. (2008). Comparative evidence for strong phylogenetic inertia in precloacal signalling glands in a species-rich lizard clade. **Evolutionary Ecology Research**, 10, 11-28.
- Pincheira-Donoso, D.**, T. Tregenza & D.J. Hodgson. (2007). Body size evolution in South American *Liolaemus* lizards of the *boulengeri* clade: a contrasting reassessment. **Journal of Evolutionary Biology**, 20: 2067-2071.

INVITED SEMINARS AND TALKS

I have given **25 invited talks and lectures** at multiple institutions and countries, including: Oxford, Nottingham, Imperial College London, Tel Aviv, Lincoln, Academy of Sciences of the Czech Republic, Iberoamerican Univ of Science and Technology-Chile, Univ of Chile, Univ of La Republica-Uruguay, Catholic Univ of Ecuador, Concepcion-Chile, National Museum of Natural History-Chile, National Patagonian Centre-Argentina, among others.

PROFESSIONAL SERVICE

Editor: Review Editor, Section Macroecology & Biogeography, *Frontiers in Ecology and Evolution* (2015-), Associate Editor, Section Reptiles, for *Boletín de Biodiversidad de Chile* (2010-).

Referee: for **49 Journals**, including *Ecol Lett*, *Am Nat*, *Proc Royal Society B*, *Global Ecol Biogeog*, *Jour Anim Ecol*, *Jour Evol Biol*, *Biol Lett*, *Ecography*, *Jour Exper Zool*, *Evol Ecol*, among others.

Grant Reviewer: for **5 funding bodies**, including Austrian Science Fund (FWF, Austria), National Fund for Science and Technology (FONDECYT, Chile), National Council for Scientific and Technical Research (CONICET, Argentina), etc.

Other Services: Scientific Advisor, for BBC Natural History (2014), National Geographic Television Channel, Washington, USA (2010), for the book *A Wildlife Guide to Chile*, Princeton University Press (2008), etc.

ACADEMIC ROLES

I hold a number of academic/administrative roles at Lincoln, including Academic Lead for Development of International Research, Founder and Responsible for *PhD Evolution & Ecology*, and Member School Research Committee.

Courses Taught/Led (at Lincoln): *Evolutionary Ecology*, BIO3029M (3rd Year); *Evolution & Ecology*, BGY1007M (1st Year).

Contributed Lectures: **Lincoln** - *Current Issues in Biology* (BIO3022M); *Research Methods II* (BGY2004M); *Ecological Survey and Census* (BIO3012M); *Ecuador Field Course*; *Veterinary Parasitology* (BIO2018M); *Current Issues in Conservation Biology* (BIO3010M); *Research Methods I* (BGY1001M). **Exeter** - *Evolutionary Ecology*, (BIO 2414). **Concepcion-Chile** – *Zoology*; *Comparative Morphology and Anatomy*.

External Postgraduate Examiner: University of Nottingham (2015).

Postgraduate Panels: Examination Panel, MPhil-PhD (Evolutionary Biology), University of Lincoln; External Reviewer for PhD Projects: National University of Comahue in Bariloche, Argentina.

Supervision of Postdoctoral Fellows: One ongoing (Lincoln).

Supervision of Postgraduates: Two ongoing PhD students (Lincoln), Five MSc Students (Four ongoing).

Supervision of Undergraduates: 16 in total (five ongoing).

GLOBAL IMPACT AND MEDIA COVERAGE

My research has extensively been featured in the **global media across all five continents** in the form of **250+ Newspaper, TV, Radio, Magazines and Website appearances**. These include interviews and press releases appeared at Science Times, Discovery Channel News, Scientific American, Fox News, Earth Magazine USA, NBC News, Science Daily, Live Science News, United Press International, Newsroom America, The Observer UK, Radio New Zealand National, Nature World News, among others.