

# Ian G. Brennan

PhD Biology · The Australian National University  
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## INTERESTS

I enjoy using and developing phylogenetic comparative methods to study macroevolutionary patterns and diversification dynamics. While I mostly study reptiles, I'm not picky about focal organisms. I'm comfortable building up from raw phylogenomic data, through tree estimation, and comparative modelling, and I work mostly in R. I also have a soft spot for making pretty figures.

## EDUCATION + AFFILIATIONS

<i>The Australian National University</i> , Ph.D. Biology	2015–2019
<i>Western Australian Museum</i> , Research Associate	2011–Present
<i>Villanova University</i> , M.Sc. Biology	2011–2014
<i>Union College</i> , B.Sc. Biology, Visual Arts	2005–2009

## MAJOR PUBLICATIONS

- Esquerré, D., **Brennan, I.G.**, Catullo, R.A., Torres-Pérez, F., Keogh, J.S. 2019. How mountains shape biodiversity: The role of the Andes in biogeography, diversification, and reproductive biology in South America's most species-rich lizard radiation. *Evolution* 73(2): 214–230
- Brennan, I.G.**, Keogh, J.S. 2018. Miocene biome turnover drove conservative body size evolution across Australian vertebrates. *Proceedings of the Royal Society B: Biological Sciences* 285: 20181474.
- Esquerré, D., **Brennan, I.G.**, Catullo, R.A., Torres-Pérez, F., Keogh, J.S. 2018. How mountains shape biodiversity: the role of the Andes in biogeography, diversification and reproductive biology in South America's most species rich lizard radiation (Squamata: Liolaemidae). *Evolution* 72(12).
- Pepper, M., Sumner, J., **Brennan, I.G.**, Hodges, K., Lemmon, A.R., Lemmon, A.M., Peterson, G., Rabosky, D.L., Schwarzkopf, L., Scott, I.A.W., Shea, G., Keogh, J.S. 2018. Speciation in the mountains and dispersal by rivers: Molecular phylogeny of the Australian Eulamprus water skinks and the biogeography of Eastern Australia. *Journal of Biogeography* 2018; 45:2040-2052.
- Brennan, I.G.**, Oliver, P.M. 2017. Mass turnover and recovery dynamics of a diverse Australian continental radiation. *Evolution* 71 (5):1352-1365.
- Brennan, I.G.**, Bauer, A.M., Van Tri, N., Wang, Yy., Wang, Wz., Zhang, YP., Murphy, R.W. 2017. Barcoding utility in a mega-diverse, cross-continental genus: keeping pace with *Cyrtodactylus* geckos. *Scientific Reports* 7:5592.
- Brennan, I.G.**, Bauer, A.M., Jackman, T.R. 2016. Mitochondrial introgression via ancient hybridization, and systematics of the Australian endemic pygopodid gecko genus *Delma*. *Molecular Phylogenetics and Evolution* 94 (2016): 577-590.

## NEW SPECIES + NATURAL HISTORY PUBLICATIONS

- Brennan, I.G.**, Bauer, A.M. 2017. Notes on hemipenial morphology and its implications in the Pygopodidae (Boulenger, 1884). *Bonn zoological Bulletin* 66 (1): 15-28.
- Ziegler, T., Botov, A., Nguyen, T.T., Bauer, A.M., **Brennan, I.G.**, Ngo, H.T., Nguyen, T.Q. 2016. First molecular verification of *Dixonius vietnamensis* Das, 2004 (Squamata: Gekkonidae) with the description of a new species from Vinh Cuu Nature Reserve, Dong Nai Province, Vietnam. *Zootaxa* 4136 (3):553-566.
- Botov, A., Trung, P.M., Truong, Q.N., **Brennan, I.G.**, Bauer, A.M., Ziegler, T. 2015. A new species of *Dixonius* (Squamata: Gekkonidae) from Phu Quy Island, Vietnam. *Zootaxa* 4040 (1):048-058.

- Maryan, B., **Brennan, I.G.**, Adams, M., Aplin, K.P. **2015**. Molecular and morphological assessment of *Delma australis* (Squamata: Pygopodidae) with description of a new species from the biodiversity 'hotspot' of southwestern Western Australia. *Zootaxa* **3946** (3): 301-330.
- Jono, T., Bauer, A.M., **Brennan, I.G.**, Mori, A. **2015**. A new species of *Blaesodactylus* (Squamata: Gekkonidae) from Tsingy karstic outcrops in Ankarana National Park, Madagascar. *Zootaxa* **3980** (3): 406-416.
- Brennan, I.G.** **2012**. Natural History Notes. Osteophagy by Agassiz's Desert Tortoise *Gopherus agassizii*. *Herpetological Review* **43** (4):638-639.

## GRANTS + AWARDS

2018	The Society of Systematic Biologists: <i>Ernst Mayr Award</i>	\$1,000
2018	The Australian National University: <i>Vice Chancellor's Higher Degree Research Grant</i>	\$1,500
2017	Australian Department of Environment (ABRS): <i>International Travel Grant</i>	\$1,500
2015	Idea Wild: <i>Student Research Equipment Grant</i>	\$1,100
2015	Australian Department of Environment (ABRS): <i>Taxonomy Research Grant</i>	\$825
2015	The American Australian Association: <i>Sir Keith Murdoch Fellowship</i>	\$7,840
2012	Villanova University: <i>Graduate Research Fellowship</i>	\$18,000
2012	Villanova University: <i>Summer Research Fellowship</i>	\$4,500

## SCHOLARSHIPS + ASSISTANTSHIPS

2015	The Australian National University: <i>International Postgraduate Research Fellowship</i>	\$184,500
2011	Villanova University: <i>Tuition Scholarship and Teaching Assistantship</i>	\$128,000

## INVITED SEMINARS

2019	Evolution Meeting: Macroevolutionary Inferences Symposium <i>Integrating uncertainty is essential to macroevolutionary inferences: Evidence from kangaroos</i>	Providence, USA
2018	Centre for Macroevolution & Macroecology <i>Assessing intra- and inter-clade competition on the evolution of monitor lizard body size</i>	Canberra, Australia
2018	II Joint Congress on Evolutionary Biology: Mayr Award Symposium <i>Incorporating fossils and competition into monitor lizard macroevolution.</i>	Montpellier, France
2017	Centre for Biodiversity Analysis <i>Beyond the tree: Phylogenetic comparative methods for evolutionary inference of phenotypic data</i>	Canberra, Australia

## TEACHING

The PhD program at the Australian National University doesn't include any formal teaching component, but I like to keep in touch with students by frequently guest lecturing for my supervisor Scott Keogh. This generally includes talks and labs on Australian biodiversity, evolution, and ecology.

2012 & 2013	<i>Comparative Vertebrate Anatomy</i> at Villanova University	Teaching Assistant
2012	<i>Evolution</i> at Villanova University	Teaching Assistant
2011	<i>Introduction to Biology</i> at Villanova University	Teaching Assistant

## REFERENCES

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**Dr. Scott Keogh**

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