

Dr Crystal Graham (née Kelehear)

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W: https://www.researchgate.net/profile/Crystal_Kelehear/

FACULTY POSITIONS HELD

2017- **Assistant Professor.** *Department of Biology, Geology, and Physical Sciences, Sul Ross State University, Alpine, Texas, USA.*

POSTDOCTORAL POSITIONS HELD

2015-17 **George E. Burch Fellow in Theoretic Medicine and Affiliated Theoretic Science.** *Smithsonian Institute, Smithsonian Tropical Research Institute, Panama City, Republic of Panama.*

2013 **A. Stanley Rand Fellow.** *Smithsonian Tropical Research Institute, Panama City, Republic of Panama.*

TERTIARY EDUCATION

2008-12 **Doctor of Philosophy in Biology.** *The University of Sydney, Sydney, Australia*

2006-07 **First Class Honors (91%) in Biology.** *The University of Sydney, Sydney, Australia*

2003-05 **Bachelor of Advanced Science.** *The University of Sydney, Sydney, Australia*

TEACHING EXPERIENCE

Full Semester Graduate Courses (Self-developed)

Spring 2017/2019: *Invasion Ecology, Sul Ross State University, Alpine, Texas, USA.*

Summer 2017: *Hemoparasitology, Sul Ross State University, Alpine, Texas, USA.*

Full Semester Undergraduate Courses

Spring & Fall 2017/2018/2019/2020: *Anatomy and Physiology, Sul Ross State University, Alpine, Texas, USA.*

Spring 2018/2020: *Readings in Tropical Diseases, Sul Ross State University, Alpine, Texas, USA.*

Spring 2017/2018/2019/2020: *Microbiology for Science Majors, Sul Ross State University, Alpine, Texas, USA.*

Fall 2017/2019: *Human Nutrition, Sul Ross State University, Alpine, Texas, USA.*

Fall 2017: *General Zoology, Sul Ross State University, Alpine, Texas, USA.*

Summer 2017: *Parasite Microscopy, Sul Ross State University, Alpine, Texas, USA.*

Spring 2014: *Parasitology, The University of Findlay, Findlay, Ohio, USA.* Aided the course coordinator in the running of a journal article discussion class.

Short Courses

9/2016: *Tropical Biology on a Changing Planet, Duke University, Organization for Tropical Studies, La Selva, Costa Rica*

1/2015: *Integrative Graduate Education & Research Traineeship, Smithsonian Tropical Research Institute, Gamboa, Panama, Republic of Panama.*

1-2/2006 & 2/2013: *Tropical Wildlife Biology & Management, The University of Sydney, Mary River, Northern Territory, Australia. Australia.*

1-2/2013: *Bridging Course in Biology, The University of Sydney, Sydney, New South Wales, Australia.*

STUDENT MENTORSHIP

2020: Primary advisor. *1 x undergraduate honors student. Sul Ross State University, USA*

2019: Independent research advisor. *2 x undergraduate research students. Sul Ross State University, USA.*

2019: Primary advisor. *2 x undergraduate honors students. Sul Ross State University, USA.*

2018-: Major professor. *1 x Master's student. Sul Ross State University, USA.*

2018: Primary advisor. *2 x undergraduate honors students. Sul Ross State University, USA.*

2017: Independent research advisor. *1 x undergraduate research student & 1 x postgraduate research student. Sul Ross State University, USA.*

2017: Primary advisor. *1 x undergraduate honors student. Sul Ross State University, USA.*

PEER-REVIEWED PUBLICATIONS *NB all published under maiden name

34) Kelehear, C. & Shine, R (2020). Tradeoffs between dispersal and reproduction at an invasion front of cane toads in tropical Australia. **Scientific Reports** 10: 486.

33) Kelehear, C., Ibáñez, R., Rodríguez, C., Buitrago, S., Durant-Archibold, A. (2020). Sarcophagid myiasis in the bufonid *Rhinella alata* in Panama. **Journal of Wildlife Diseases: online first.**

32) Walker, D. M., Hill, A. J., Albecker, M. A., McCoy, M. W., Grisnik, M., Romer, A., Grajal-Puche, A., Camp, C., Kelehear, C., Wooten, J., Rheubert, J., & Graham, S. P. (2019). Variation in the slimy salamander (*Plethodon* spp.) skin and gut-microbial assemblages is explained by geographic distance and host affinity. **Microbial Ecology** 79: 985-997.

31) Kelehear, C. & Shine, R. (2019). Non-reproductive male cane toads (*Rhinella marina*) withhold sex-identifying information from their rivals. **Biology Letters** 15: 20190462.

30) Sakla, A. J., Detwiler, J. T., Caballero, I. C., Kelehear, C., Criscione, C. D. (2019). Recognizing the causes of parasite morphological variation to resolve the status of

- a cryptogenic pentastome. **Journal of Parasitology** 105: 432-441.
- 29) **Kelehear, C.,** Saltonstall, K. & Torchin, M. E. (2019). Negative effects of parasitic lung nematodes on the fitness of a Neotropical anuran (*Rhinella horribilis*). **Parasitology**: 928-936.
- 28) Graham, S. P., Kline, R., Steen, D. A., & **Kelehear, C.** (2018). Description of an extant salamander from the Gulf Coastal Plain of North America: the Reticulated Siren, *Siren reticulata*. **PLoS ONE** 13: e0207460.
– Article reported on in *National Geographic, New York Times, Live Science, Huffington Post, Revelator, Science Alert, BGR, Earther, Motherboard, Earth.com & others* –
- 27) **Kelehear, C.,** Keightley, S. J., & Ritzi, C. M. (2017). First record of *Amblyomma dissimile* infesting the South American Common Toad (*Rhinella margaritifera*) in French Guiana. **Comparative Parasitology** 84: 163-164.
- 26) Selechnik, D., Rollins, L.A., Brown, G.P., **Kelehear, C.,** & Shine, R. (2017). The things they carried: the pathogenic effects of old and new parasites following the intercontinental invasion of the Australian Cane Toad (*Rhinella marina*). **International Journal for Parasitology: Parasites & Wildlife** 6: 375-385.
– Invited submission –
- 25) **Kelehear, C.,** Graham, S. P., & Langkilde, T. (2017). Defensive strategies of the Puerto Rican Dwarf Geckos (*Sphaerodactylus macrolepis*) against invasive Fire Ants. **Herpetologica** 73: 48-54.
- 24) **Kelehear, C.,** Hudson, C. M., Mertins, J. W., & Shine, R. (2017). First report of exotic ticks (*Amblyomma rotundatum*) parasitizing invasive Cane Toads (*Rhinella marina*) on the island of Hawai'i. **Ticks and Tick-borne Diseases** 8: 330-333.
– Article reported on in the *Smithsonian Insider* –
- 23) Brown, G. P., **Kelehear, C.,** Pizzatto, L. & Shine, R. (2016). The impact of lungworm parasites on rates of dispersal of their anuran host, the invasive Cane Toad. **Biological Invasions** 18: 103-114.
- 22) Walker, D. M., Lawrence, B. R., Esterline, D., McAndrew, M., Edelbroch, J., Graham, S. P. & **Kelehear, C.** (2015). A novel protocol for washing environmental microbes from amphibian skin. **Herpetological Review** 46: 349-353.
- 21) **Kelehear, C.,** Jones, H. I., Wood, B. A. & Shine, R. (2015). Wild Cane Toads (*Rhinella marina*) expel foreign matter from the coelom via the urinary bladder in response to internal injury, endoparasites and disease. **PLoS ONE** 10: e0134036.
- 20) Brown, G. P., **Kelehear, C.,** Shilton, C. M., Phillips, B. L. & Shine, R. (2015). Stress and immunity at the invasion front: a comparison across Cane Toad (*Rhinella marina*) populations. **Biological Journal of the Linnean Society** 116: 748-760.
- 19) Stevenson, D. J., Jenkins, C. L., Stohlgren, K. M., Jensen, J. B., Bechler, D. L., Deery, I., Duff, D., Graham, S. P., Herrington, R., Higgins, P., Horan, R. V., **Kelehear, C. et al.** (2015). Significant new records of amphibians and reptiles from Georgia, USA. **Herpetological Review** 46: 597-601.
- 18) **Kelehear, C.,** Saltonstall, K. & Torchin, M. E. (2015). An introduced pentastomid parasite (*Raillietiella frenata*) infects native Cane Toads (*Rhinella marina*) in Panama. **Parasitology** 142: 675-679.

- 17) Kelehear, C., Spratt, D. M., O'Meally, D. & Shine, R. (2014). Pentastomids of wild snakes in the Australian tropics. **International Journal for Parasitology: Parasites & Wildlife** 3: 20-31.
- 16) Pizzatto, L., Kelehear, C. & Shine, R. (2013). Seasonal dynamics of the lungworm, *Rhabdias pseudosphaerocephala*, in recently colonized Cane Toad (*Rhinella marina*) populations in tropical Australia. **International Journal for Parasitology** 43: 753-761.
- 15) Kelehear, C., Brown, G. P. & Shine, R. (2013). Invasive parasites in multiple invasive hosts: the arrival of a new host revives a stalled prior parasite invasion. **Oikos** 122: 1317-1324.
- 14) Brown, G. P., Kelehear, C. & Shine, R. (2013). The early toad gets the worm: Cane Toads at an invasion front benefit from higher prey availability. **Journal of Animal Ecology** 82: 854-862.
- 13) Pizzatto, L., Kelehear, C., Dubey, S., Barton, D. & Shine, R. (2012). Host-parasite relationships during a biologic invasion: 75 years postinvasion, Cane Toads and sympatric Australian frogs retain separate lungworm fauna. **Journal of Wildlife Diseases** 48: 951-961.
- 12) Kelehear, C., Cabrera-Guzmán, E. & Shine, R. (2012). Inadvertent consequences of community-based efforts to control invasive species. **Conservation Letters** 5: 360-365.
- 11) Kelehear, C., Brown, G. P. & Shine, R. (2012). Size and sex matter: infection dynamics of an invading parasite (the pentastome *Raillietiella frenatus*) in an invading host (the Cane Toad *Rhinella marina*). **Parasitology** 139: 1596-1604.
- 10) Graham, S. P., Kelehear, C., Brown, G. P. & Shine, R. (2012). Corticosterone-immune interactions during captive stress in invading Australian Cane Toads (*Rhinella marina*). **Hormones & Behavior** 62: 146-153.
- 9) Kelehear, C., Brown, G. P. & Shine, R. (2012). Rapid evolution of parasite life history traits on an expanding range-edge. **Ecology Letters** 15: 329-337.
- 8) Brown, G. P., Kelehear, C. & Shine, R. (2011). Effects of seasonal aridity on the ecology and behaviour of invasive Cane Toads (*Rhinella marina*) in the Australian wet-dry tropics. **Functional Ecology** 25: 1339-1347.
- 7) Kelehear, C., Webb, J. K., Hagman, M. & Shine, R. (2011). Interactions between infective helminth larvae and their anuran host. **Herpetologica** 64: 378-385.
- 6) Kelehear, C., Spratt, D. M., Dubey, S., Brown, G. P. & Shine, R. (2011). Using combined morphological, allometric and molecular approaches to identify species of the genus *Raillietiella* (Pentastomida). **PLoS ONE** 6: e24936.
– Article reported on in *Scientific American* –
- 5) Kelehear, C., Brown, G. P. & Shine, R. (2011). Influence of lung parasites (*Rhabdias pseudosphaerocephala*) on the growth rates of free-ranging and captive adult Cane Toads (*Bufo marinus*). **Oecologia** 165: 585-592.
– Article reported on in *FrogLog* –
- 4) Kelehear, C. & Jones, H. I. (2010). Nematode larvae (Order Spirurida) in gastric tissues of Australian anurans: a comparison between the introduced Cane Toad

and sympatric native frogs. **Journal of Wildlife Diseases** 46: 1126-1140.

- 3) Phillips, B. L., **Kelehear, C.**, Pizzatto, L., Brown, G. P., Barton, D. & Shine, R. (2010). Parasites and pathogens lag behind their host during periods of host range-advance. **Ecology** 91: 872-881.
- 2) **Kelehear, C.**, Webb, J. K. & Shine, R. (2009). *Rhabdias pseudosphaerocephala* infection in *Bufo marinus*: lung nematodes reduce viability of metamorph Cane Toads. **Parasitology** 136: 919-927.
– Article reported on in: *The Sydney Morning Herald, The Daily Telegraph, The Herald Sun, and The Brisbane Times* –
- 1) **Kelehear, C.** & Webb, J. K. (2006). Effects of tail autotomy on anti-predator behavior and locomotor performance in a nocturnal gecko. **Copeia** 2006: 803-809.

PEER-REVIEWED NATURAL HISTORY NOTES

- 22) **Kelehear, C.** & Graham, S. P. (2018). *Pseudoboa newwiedii* (Neuwied's False Boa). Ectoparasite. **Herpetological Review** 49: 762-763.
- 21) **Kelehear, C.** & Graham, S. P. (2018). *Leptodactylus knudseni* (Knudsen's Thin-Toed Frog). Ectoparasite. **Herpetological Review** 49: 304.
- 20) Graham, S. P., **Kelehear, C.** (2017). *Leptodeira annulata* (Banded Cat-eyed Snake). Diet. **Herpetological Review** 48: 675-676.
- 19) Seiler, M., Graham, S. P., **Kelehear, C.** (2017). *Spea multiplicata* (New Mexico Spadefoot). Predation. **Herpetological Review** 48: 615.
- 18) **Kelehear, C.**, Seiler, M., Graham, S. P. (2017). *Gastrophryne olivacea* (Western Narrow-mouthed Toad). Predation. **Herpetological Review** 48: 606-607.
- 17) Seiler, M., Graham, S. P., **Kelehear, C.** (2017). *Thamnophis marcianus* (Checkered Gartersnake). Predation. **Herpetological Review** 48: 459.
- 16) Seiler, M., Graham, S. P., **Kelehear, C.** (2017). *Heterodon kennerlyi* (Mexican Hog-nosed Snake). Predation. **Herpetological Review** 48: 450.
- 15) **Kelehear, C.**, Benjamin, J., Honorio, A. R. & Graham, S. P. (2017). *Rhinella martyi*. Clutch Size. **Herpetological Review** 48: 417.
- 14) **Kelehear, C.** (2016). *Cubophis caymanus* (Cayman Racer). Diet. **Herpetological Review** 47: 680-681.
- 13) **Kelehear, C.**, Levy, D. & Saulo, D. (2016). *Litoria infrafrenata* (White-lipped Tree Frog). Diet. **Herpetological Review** 47: 280.
- 12) Graham, S. P. & **Kelehear, C.** (2016). *Holbrookia maculata* (Lesser Earless Lizard). Predation. **Herpetological Review** 47: 137-138.
- 11) Graham, S. P. & **Kelehear, C.** (2016). *Aspidoscelis inornata* (Trans Pecos Striped Whiptail). Predation. **Herpetological Review** 47: 132.
- 10) **Kelehear, C.** (2016). *Trachemys scripta elegans* (Red-eared Slider). Predation. **Herpetological Review** 47: 129-130.
- 9) Graham, S. P. & **Kelehear, C.** (2015). *Sonora semiannulata* (Western Groundsnake).

Predation. **Herpetological Review** 46: 650.

- 8) **Kelehear, C. & Graham, S. P. (2015).** *Anolis cristatellus* (Crested Anole). Diet. **Herpetological Review** 46: 431.
- 7) **Kelehear, C. & Graham, S. P. (2015).** *Thamnophis sirtalis* (Common Garter Snake). Diet. **Herpetological Review** 46: 277-278.
- 6) **Graham, S. P. & Kelehear, C. (2015).** *Coluber flagellum* (= *Masticophis flagellum*) (Coachwhip). Diet. **Herpetological Review** 46: 267.
- 5) **Graham, S. P. & Kelehear, C. (2015).** *Sistrurus tergeminus edwardsii* (Desert Massasauga). Diet. **Herpetological Review** 46: 107.
- 4) **Kelehear, C. (2014).** *Liotyphlops albirostris* (White-nosed Blind Snake). Predation. **Herpetological Review** 45: 339.
- 3) **Kelehear, C. (2013).** *Stegonotus cucullatus* (Slaty-grey Snake). Diet. **Herpetological Review** 44: 157-158.
- 2) **Kelehear, C. (2012).** *Demansia vestigiata* (Lesser Black Whip Snake). Diet. **Herpetological Review** 43: 659.
- 1) **Pizzatto, L., Somaweera, R., Kelehear, C. & Brown, G. P. (2012).** *Rhinella marina* (Cane Toad). Diet. **Herpetological Review** 43: 469-471.

PEER-REVIEWED GEOGRAPHIC DISTRIBUTION NOTES

- 13) **Graham, S. P., Stevens, S., & Kelehear, C. (2015).** *Craugastor augusti* (Barking Frog). Geographic Distribution. **Herpetological Review** 46: 558.
- 12) **Graham, S. P. & Kelehear, C. (2015).** *Sistrurus tergeminus edwardsii* (Desert Massasauga). Geographic Distribution. **Herpetological Review** 46: 221.
- 11) **Graham, S. P. & Kelehear, C. (2014).** *Spea bombifrons* (Plains Spadefoot). Geographic distribution. **Herpetological Review** 45: 656.
- 10) **Graham, S. P. & Kelehear, C. (2014).** *Ambystoma tigrinum* (Tiger Salamander). Geographic distribution. **Herpetological Review** 45: 650.
- 9) **Graham, S. P. & Kelehear, C. (2014).** *Ambystoma tigrinum* (Tiger Salamander). Geographic distribution. **Herpetological Review** 45: 456.
- 8) **Kelehear, C. & Graham, S. P. (2014).** *Storeria occipitomaculata* (Red-bellied Snake). Geographic Distribution. **Herpetological Review** 45: 286.
- 7) **Graham, S. P. & Kelehear, C. (2014).** *Scaphiopus holbrookii* (Eastern Spadefoot). Geographic distribution. **Herpetological Review** 45: 279.
- 6) **Graham, S. P. & Kelehear, C. (2014).** *Pseudacris crucifer* (Spring Peeper). Geographic distribution. **Herpetological Review** 45: 278.
- 5) **Kelehear, C. & Graham, S. P. (2014).** *Hemidactylium scutatum* (Four-toed Salamander). Geographic Distribution. **Herpetological Review** 45: 274.
- 4) **Graham, S. P. & Kelehear, C. (2014).** *Ambystoma tigrinum* (Tiger Salamander). Geographic distribution. **Herpetological Review** 45: 273.

- 3) Graham, S. P. & Kelehear, C. (2014). *Ambystoma talpoideum* (Mole Salamander). Geographic distribution. **Herpetological Review** 45: 273.
- 2) Brooks, G. C., Graham, S. P. & Kelehear, C. (2012). *Opheodrys aestivus* (Rough Greensnake). Geographic Distribution. **Herpetological Review** 43: 622.
- 1) Brooks, G. C., Graham, S. P. & Kelehear, C. (2012). *Crotalus horridus* (Timber Rattlesnake). Geographic Distribution. **Herpetological Review** 43: 620.

INVITED EDUCATIONAL FACT SHEETS

- 10) Kelehear, C. (2016). Pentastomiasis in Australian Crocodylians. **Wildlife Health Australia**.
- 9) Kelehear, C., & Siah, S. (2016). Murray Valley Encephalitis. **Wildlife Health Australia**.
- 8) Kelehear, C., Millan, J., Williams, R., Siah, S., & Woods, R. (2016). West Nile and Kunjin Virus. **Wildlife Health Australia**.
- 7) Kelehear, C., Siah, S., & Woods, R. (2016). Japanese Encephalitis. **Wildlife Health Australia**.
- 6) Kelehear, C. (2016). Pentastomiasis in Australian Lizards. **Wildlife Health Australia**.
- 5) Graham, S. P. & Kelehear, C. (2016). Eastern Equine Encephalitis. **Wildlife Health Australia**.
- 4) Graham, S. P. & Kelehear, C. (2015). Western Equine Encephalitis. **Wildlife Health Australia**.
- 3) Kelehear, C., Bestall, A., Ross, T., Sanders, L., Shilton, C., Holtz, P. & Woods, R. (2015). Ross River Virus in Australian Wildlife. **Wildlife Health Australia**.
- 2) Kelehear, C. & Graham, S. P. (2015). Equine Influenza. **Wildlife Health Australia**.
- 1) Kelehear, C. (2014). Pentastomiasis in Australian Snakes. **Wildlife Health Australia**.

POPULAR ARTICLES

- 1) Kelehear, C. (2009). Nematodes *versus* toads: investigating the potential for parasites to lessen the impact of the cane toad invasion. **Australian Wildlife** 4: 35.

PRESENTATIONS

- 2020 Oral Presentation. Invited Speaker: *World Congress of Herpetology, New Zealand*
- 2019 Oral Presentation. *Texas Herpetological Society, USA*
- 2018 Oral Presentation. *Texas Academy of Sciences, USA*
- 2017 Oral Presentation. *Joint Meeting of Ichthyologists and Herpetologists, USA*

- 2017 Oral Presentation. *Fellows and Interns Symposium, Smithsonian Tropical Research Institute, Panama*
- 2016 Invited seminars. *Tropical Biology on a Changing Planet, Duke University, Organization for Tropical Studies, Costa Rica*
- 2016 Invited keynote speaker. *Animal Invasive Species in the Antilles: The Relevance of Scientific Research to Conservation, 1st Caribaea Initiative, Research & Conservation Workshop, Martinique*
- 2015 Invited seminar. *Ecology and Epidemiology of Parasites and Infectious Disease, Princeton University, Smithsonian Tropical Research Institute, Panama*
- 2014 Oral presentation. *Joint Meeting of Ichthyologists and Herpetologists, USA*
- 2012 Invited seminar. *Centre for Infectious Disease Dynamics, Pennsylvania State University, USA*
- 2012 Oral presentation. *World Congress of Herpetology, Canada*
- 2011 Oral presentation. *Annual Meeting of the Australian Society of Herpetologists, Australia*
- 2011 Oral presentation. *School of Biological Sciences – Postgraduate Excellence Award, The University of Sydney, Australia*
- 2011 Oral presentation. *Annual Meeting of the Invasive Animals Cooperative Research Centre, Australia*
- 2010 Invited seminar. *Department of Integrated Biology, University of South Florida, USA*
- 2010 Invited seminar. *Department of Biological Sciences, Auburn University, USA*
- 2010 Poster presentation. *International Congress for Parasitology, Australia*
- 2010 Oral presentation. *Emerging Amphibian Diseases International Conference, Australia*
- 2010 Oral presentation. *Annual Meeting and Review of the Invasive Animals Cooperative Research Centre, Australia*
- 2009 Oral presentation. *School of Biological Sciences, The University of Sydney, Australia*
- 2009 Oral presentation. *Annual Meeting of the Invasive Animals Cooperative Research Centre, Australia*

MEDIA COVERAGE OF RESEARCH

- 2018 Newspaper: A salamander of legend emerges from southern swamps. *New York Times*
- 2018 Online magazine: New species of giant salamander discovered in Florida. *National Geographic*
- 2018 Newspaper: Scientists discover giant leopard-spotted salamander living in Florida. *Huffington Post*
- 2018 News website: Scientists discover new species, reticulated siren, in Florida. *Earth.com*

- 2018 Online magazine: Scientists discover rare “siren” species in Florida. *Vice Motherboard*
- 2018 Blog: This salamander breathes through “Christmas Trees” growing from its head. *Live Science*
- 2018 News website: Nearly mythical 3-foot-long swamp salamander is officially a real species. *Earther*
- 2018 News website: Swampy thing: The giant new salamander species discovered in Florida and Alabama. *The Revelator*
- 2018 News website: Scientists have captured a giant, “mythical” siren species in Florida. *Science Alert*
- 2018 Online magazine: Scientists discover new species of giant salamander in Florida, and it looks like an alien. *BGR*
- 2017 Online magazine: Two invasive species have Hawaiian reunion after 80-year separation. *Smithsonian Insider*
- 2013 Blog: Parasite-swapping between two introduced species: The cane toad strikes again. *SciLogs*
- 2012 Newspaper: Parasites slow up cane toads. *Sunday Mail*
- 2011 News website: Hooks can be deceiving. *Scientific American*
- 2009 Documentary: Living with cane toads in Northern Australia. *NHK – Tokyo*
- 2008 News website: Biological weapons to control cane toad invasion in Australia. *Science Daily*
- 2007 Newspaper: Worm a chink in the cane toad’s armour. *The Sydney Morning Herald*
- 2007 Newspaper: Tiny worm canes toad. *The Daily Telegraph*
- 2007 Newspaper: How to kill a cane toad. *The Daily Telegraph*
- 2007 Newspaper: Worm may prove match for cane toad. *The Brisbane Times*
- 2007 Newspaper: Cane toad killer in the shape of a worm. *Herald Sun*

GRANTS, AWARDS, AND SCHOLARSHIPS

- 2016 Grant for Research and Exploration, National Geographic Society (\$18, 525)
- 2016 Postdoctoral Fellowship, Smithsonian Tropical Research Institute (\$20, 000)
- 2015-16 George E. Burch Fellowship in Theoretic Medicine and Affiliated Theoretic Science, Smithsonian Institution (\$50, 000)
- 2015 Researcher Exchange Award, Global Invasions Research Coordination Network (\$3, 250)
- 2015 Grant for Tropical Biodiversity Research in French Guiana, Laboratoire d’Excellence, Centre d’étude de la Biodiversité Amazonienne, Programmes Investissement d’Avenir of the French Government (\$7, 200)

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- 2015 Postdoctoral Fellowship, Smithsonian Institution (\$30, 000)
- 2013 A. Stanley Rand Fellowship, Smithsonian Tropical Research Institute (\$3, 900)
- 2013 Researcher Exchange, Training, and Travel Award, Australian Society for Parasitology Network (\$950)
- 2013 Researcher Exchange Award, Global Invasions Research Coordination Network (\$4, 500)
- 2013 Accomplishment with Distinction: Epidemics – The Dynamics of Infectious Diseases, The Pennsylvania State University
- 2012 Certificate of Achievement in Research Leadership and Management: The Balanced Scientist Program, The Invasive Animals Cooperative Research Centre
- 2008-12 Postgraduate Award, University of Sydney (\$70, 000)
- 2008-12 Top-up Scholarship, Invasive Animals Cooperative Research Centre (\$38, 500)
- 2011 Chief Executive Officer’s Prize for Achievement as a Student in the Invasive Animals Cooperative Research Centre (\$3, 000)
- 2011 Honorable Mention: Best PhD Student Presentation, Annual Meeting of the Australian Society of Herpetologists
- 2011 Finalist: School of Biological Sciences Postgraduate Excellence Award, The University of Sydney
- 2011 People’s Choice Award: Best PhD Student Presentation, Annual Meeting of the Invasive Animals Cooperative Research Centre
- 2011 Graduate Student Grant, Postgraduate Research Support Scheme, The University of Sydney (\$260)
- 2010 Finalist: ANZANG Nature and Landscape Photographer of the Year
- 2010 Researcher Exchange Award, ARC/NHMRC Research Network for Parasitology (\$2, 500)
- 2010 Student Travel Grant, Invasive Animals Cooperative Research Centre (\$2, 000)
- 2010 G. H. S. & I. R. Lightoller Scholarship, The University of Sydney (\$2, 200)
- 2010 Graduate Student Grant, Postgraduate Research Support Scheme, The University of Sydney (\$1, 000)
- 2010 Student Travel Grant, Australian Society for Parasitology (\$590)
- 2010 Student Research Grant, Frog and Tadpole Study Group of NSW (\$800)
- 2009 Student Research Grant, Wildlife Preservation Society of Australia (\$1, 000)
- 2009 Graduate Student Grant, Postgraduate Research Support Scheme, The University of Sydney (\$850)
- 2003-07 Undergraduate Scholarship, The University of Sydney (\$12, 000)

SHORT COURSES COMPLETED

- 2019- Effective Teaching Practices. *Association of College and University Educators.*
- 2013 Epidemics – The Dynamics of Infectious Diseases. *The Pennsylvania State University*
- 2011 Science Writer’s Workshop. *The University of Canberra*
- 2010 Risk Management and Biosafety (PC2 Laboratory). *The University of Sydney*
- 2010 Commercialization of Science Bootcamp. *Australian Institute for Commercialization*
- 2010 Emerging Amphibian Diseases – Skills Workshop. *James Cook University*

PROFESSIONAL ACTIVITIES

➤ **Editorial positions**

- Herpetological Review: Amphibian Natural History: Section Editor (2014-2019)

➤ **Journals refereed**

- Acta Ethologica
- Acta Herpetologica (x 2)
- Austral Ecology
- Biological Invasions (x 2)
- Comparative Parasitology (x 3)
- Ecosphere
- Emerging Infectious Diseases (x 3)
- Evolutionary Ecology
- Frontiers in Ecology and the Environment
- International Journal for Parasitology: Parasites and Wildlife (x 4)
- Journal of Applied Ecology (x 4)
- Journal of Herpetology
- Journal of Helminthology
- Journal of Zoology
- Journal of Parasitology (x 3)
- Journal of Pest Science (x 2)
- Herpetologica (x 2)
- Herpetological Conservation Biology
- Herpetological Review

- Molecular Ecology (x 2)
- Northeastern Naturalist
- Parasitology (x 4)
- Parasitology International (x 3)
- Parasitology Research
- Southeastern Naturalist
- Veterinary Parasitology (x 2)
- Wildlife Research

➤ **Society memberships**

- Association of Reptilian and Amphibian Veterinarians (2012, 2016-current)
- American Society of Ichthyologists and Herpetologists (2014-current)
- Australian Society of Herpetologists (2007-current)
- Australian Society for Parasitology (2010-current)
- International Reptile Conservation Foundation (2008-2012)
- Invasive Animals Cooperative Research Centre (2008-2012)
- National Geographic Explorer (2016-current)
- Sierra Club: Big Bend Regional Sierra Club: Executive Committee Member (2018-2019)
- Society for the Study of Amphibians and Reptiles (2014-current)
- Texas Academy of Science (2018-current)
- Texas Herpetological Society (2014-current)
- Wildlife Disease Association (2010-2013, 2018-)
- Wildlife Health Australia (2010-current)
- Wildlife Preservation Society of Australia (2009)