

CV Jenna Crowe-Riddell

Email: jmcroweriddell@gmail.com
Website: www.jennacroweriddell.com
Nationality: Australian

Academic Qualifications

- 2015 - 2019 **Doctor of Philosophy (Dean's Letter of Commendation for Doctoral Thesis Excellence)**
University of Adelaide,
Conferral date: 7 March 2019
Graduation date: 29 April 2019
Thesis entitled "*The evolution of cutaneous senses in marine snakes (Hydrophiinae)*"
- 2014 **Bachelor of Science (Class I Honours)**
University of Adelaide
Thesis entitled "*Sensory sensillae: the transition from land to sea in elapid snakes*"
- 2008 - 2012 **Bachelor of Science (Evolution & Ecology)**
Australian National University
GPA 6.3/7

Publications

- Crowe-Riddell, JM**, Simões, BR, Partridge, JP, Schwerdt, JG, Breen, J, Ludington, A, Gower, DG and Sanders, KL (2019) Phototactic tails: Evolution and molecular basis of a novel sensory trait in sea snakes. *Molecular Ecology* **28**, 2013–2028. DOI: 10.1111/mec.15022
- Crowe-Riddell, JM**, D'Anastasi, B, Nankivell, JH, Rasmussen, AR, Sanders, KL (2019) First records of sea snakes (Elapidae: Hydrophiinae) diving to the mesopelagic zone (>200 m). *Austral Ecology Natural History Notes* **44**, 752–754. DOI: 10.1111/aec.12717
- Crowe-Riddell, JM**, Williams, R, Chapuis, L, Sanders, KL. (2019) Ultrastructural evidence of a mechanosensory function of scale 'sensilla' in sea snakes (Hydrophiinae). *Royal Society Open Science* **6**, 182022. DOI: 10.1098/rsos.182022
- Crowe-Riddell, JM**, Jolly, C, Sanders, KL (in prep) The role of enlarged scale organs in tactile courtship of turtle-headed sea snakes (*Emydocephalus annulatus*). *TBd*
- Lillywhite, HB, Sheehy, CM, Sandfoss, MR, **Crowe-Riddell, JM**, Grech, A (2019) Drinking by sea snakes from oceanic freshwater lenses at first rainfall ending seasonal drought. *PLoS One* **14**, 1–11. DOI: doi.org/10.1371/journal.pone.0212099
- Udyawer V, Barnes P, Bonnet, X, **Crowe-Riddell, JM et al.** (2018) Future directions in the research and management of marine snakes. *Frontiers in Marine Science* **5**, 399. DOI: 10.3389/fmars.2018.00399.
- Crowe-Riddell, JM**, Snelling, EP, Watson, A, Kyuseop Suh, A, Partridge, JC, Sanders, KL (2016) The evolution of scale sensilla in the transition from land to sea in elapid snakes. *Open Biology* **2016**, 160054. DOI: 10.1088/rsob.160054
- Langmore, NE, Feeney, WE, **Crowe-Riddell, JM**, Luan, H, Louwrens, KM, Cockburn, A (2012) Learned recognition of brood parasitic cuckoos in the superb fairy-wren *Malurus cyaneus*. *Behavioral Ecology* **23**, 798–805.

Recent Employment

- Current:** Postdoctoral researcher, *Department of Ecology and Evolutionary Biology, University of Michigan*
2019: Laboratory assistant, *Glenunga High School, South Australia*
2019: Practical demonstrator, *Zoology II, University of Adelaide*
2018: University ambassador, *University of Adelaide*
2016/17: Administrative assistant, *School of Biological Sciences, University of Adelaide*

2014: Practical demonstrator, Evolutionary Biology, *University of Adelaide*

Research Grants

2017: *Gregory Swartz Award*, Australian American Fulbright Commission. \$1000 grant to attend SICB conference in New Orleans, USA (Jan).

2016: *Fulbright Postgraduate Scholarship*, Australian American Fulbright Commission. \$42,000 for 9 months exchange to the USA.

2016: *Gans Travel Award*, Gans Collections and Charitable Fund. \$1000 to attend 8th WCH conference in Hangzhou, China. *Student Travel Award*, Australian Herpetology Society, \$200 to attend ASH conference in Launceston, TAS.

2015: “*Tail photoreception: Discovering a novel sensory system in Australian sea snakes*”, contributed to winning grant for my PhD research. \$10,860 Environment Institute Small Research Grants Scheme

2015: “*Tail photoreception: Discovering a novel sensory system in Australian sea snakes*”, contributed to winning grant for my PhD research. \$42,100 Hermon Slade Foundation

2015: *Australian Postgraduate Scholarship*, Australian Federal Government. \$25,900 / 3 years.

2015: *6-week Summer Scholarship*, University of Adelaide, research project with Kate Sanders (Jan – Feb)

2012: *ANUTROP Scholarship*, Australian National University / Charles Darwin University, participated in sea turtle and sea snake surveys with Mick Guinea on offshore coral reefs in North West Shelf.

Awards & Nominations

2019: *Finalist PhD Research Excellence*, South Australian Science Excellence Awards, winners announced in August 2019.

2019: *Dean’s Letter of Commendation for Doctoral Thesis Excellence*, University of Adelaide

2018: *Finalist for University of Adelaide STEM Award*, Channel 9 Young Achiever Awards for South Australia, the awards encourage, acknowledge and reward the contributions of young people throughout SA.

2017: *South Australian Fresh Scientist*, Science in Public, selected as one of 10 Fresh Scientists, a national science communication competition that helps early-career researchers share their science stories.

2017: *Fulbright Postgraduate Scholarship*, Australian American Fulbright Commission, visiting researcher to Harvey Lillywhite Lab, University of Florida, USA (Nov 2016 – July 2017).

2009: *Chancellors Letter of Commendation*, Australian National University, acknowledging a high grade point average during undergraduate degree.

Conference presentations

2018: Poster, International Congress of Neuroethology, Brisbane, QLD, Australia (July); Talk, Australian Society of Herpetology (ASH), Redland Bay, QLD, Australia (Dec).

2017: Talk, JMIH, Austin, Texas, USA (July); Invited lecture, University of Florida, Gainesville, USA (June); Talk SICB New Orleans, USA (Jan).

2016: Talk, 8th World Congress of Herpetology, Hangzhou, China (Aug); Poster, Fulbright Scholar Presentation Evening, Melbourne, VIC (Feb); Talk, ASH, Launceston, Tasmania (Feb).

Science Communication

Ongoing: Online articles and blog posts, I maintain a science blog www.jennacroweriddell.com/blog, most popular content includes “What went wrong in communicating the Tassie tiger genome paper” (Jan 10, 2018) received >1000 reads in first week of publication & “How to apply for a Fulbright scholarship” (May 22, 2016). Invited blog posts: Interview with the author, Molecular Ecology Blog (May 24 2019) Environment Institute Blog, e.g. “Beyond the elevator pitch: How do we engage people in science?” (Dec 27, 2018).

2018: *Panellist* for Science Nation events, South Australia

2018: *Perform your PhD*, Inspiring South Australia. \$2000 to devise and perform a collaborative show with comedians, musicians and fashion designers, scheduled to be performed during National Science Week (Aug).

2018: *Science presenter*, CSIRO ASSETS, an educational program for high achieving Year 10 Aboriginal and Torres Strait Islander students with an interest in science. Working with student groups to create a scientific project based on my research (Jan).

2017: *South Australian Fresh Scientist*, Science in Public, provided two days of media training culminating in a Science in the Pub event (Feb).

2016: *RAW Comedy State Finalist*, RAW Comedy Australia, an annual Australian competition for emerging stand-up comedians (Feb).

2015: *Open Day Presenter*, University of Adelaide, invited talk to prospective high school students about my university experience, presented at Elder Hall to an audience of >400 people (Aug).

2015: *Science Presenter*, South Australian Certificate of Education Research Expo, engaging one-on-one with high school students about my research (Aug).

Field Experience

2019: Field assistant on 2-week field trip to Noumea, New Caledonia to observe sea snake behaviour in the wild.

2017: Volunteer – 3-week field trip to Guanacaste, Costa Rica to collect sea snakes for behavioural and drinking experiments. Volunteer – invasive reptile collection in Florida (*Anolis*, *Leiocephalus* lizards). Volunteer – survey cottonmouths & terrapins on Seahorse Key, Florida.

2015: PhD research 1-week trip (Mar 2015) to collect & export sea snakes from Broome, WA to University of Adelaide, SA. Team leader on other collection trips to export snakes to University of Western Australia for collaborative project on snake hearing.

2014: Honours research student - 2 trips (total 3 weeks) for sea snake tissue collection, Dampier/Port Headland/Broome, WA. Volunteer – 2-week venomous animals collection trip central Queensland and Gulf of Carpentaria, University of Queensland.

2012/13: Field assistant – sea turtle and sea snake survey, Ashmore, Browse, Cartier, Hibernia, Scott, Seringapatam reef trips, North West Shelf, Australia.

2011: Volunteer – sea turtle tagging, Bare Sand Island, NT, Volunteer – fairy wren behavioural experiments, *Australian National University*.

Attained First Aid Certificate (CBD College, No. 270615) and Tropical Basic Offshore Safety Induction & Emergency Training (TBOSIET, Accrete). Certified advanced SCUBA diver and completed Course in Reptile & Venomous Snake Control (Snake Handler, 21962VIC Course)

Community Engagement

2018: Moderator – Australian Sea Snakes Facebook Group

2017: Volunteer – facilitator for Bragging Rites Event, *Global Learning Centre / University of Adelaide*

2016: Volunteer – usher, *The Producers Comedy*

2015: Student representative – Open Day Committee, *University of Adelaide*. Volunteer – bartender, *WOMADelaide Festival*. Volunteer – usher at Night Lab, *South Australian Museum*.

2013: Volunteer – native plant restoration, *Conservation Volunteers NSW*

2012: Volunteer – bartender, *Red Rattler Live Music Venue*

2011: Student representative for SCUBA club, *Australian National University*

Appointments & Societies

Sea Snake Symposium, World Congress of Herpetology, organizing committee member

Red List Authority Coordinator, IUCN Sea Snake Specialist Group

Australian Herpetology Society

American Society of Ichthyologists and Herpetologists

International Society for Neuroethology

Australian Science Communicators

Interests

Yoga, running, standup comedy, snorkeling & SCUBA diving, hiking & board games.