

Zachariah Wylde | Evolutionary Ecologist

www.wyldescience.com

Qualifications

PhD candidate in Evolutionary Ecology (2015-2020) University of New South Wales

Thesis title: *The role of the environment in the evolution of reproductive strategies*

Master of Science in Biology (MSc First class honours) 2013-2014 at the University of Auckland

Thesis title: *The Community Ecology, Behaviour and Biology of New Zealand Carrion Flies.*

Postgraduate Diploma (PGDipSci with merit) 2012-2013 at the University of Auckland

Advanced study and specialisation in biological sciences including a dissertation/ thesis proposal.

Bachelor of Science (BSc major in biological sciences) 2007-2012 at the University of Auckland

Conference Presentations

Australasian Society for the study of Evolution (2019 Sydney, AUS). "Integration and condition-dependence of genitalic and somatic traits in male and female neriid flies."

Australasian Society for the Study of Evolution (2018 Tasmania, AUS). "Self-perceived dominance hierarchy effects on Cuticular hydrocarbon profiles in *Telostylinus angusticollis* (Diptera)."

Biology of spermatozoa 14 BoS (2017 Sheffield, UK). Poster presentation: "Male condition and mating sequence effects on ejaculate storage and use in the Neriid fly, *Telostylinus angusticollis*."

The Australasian Society for the study of Animal Behaviour joint conference with Behaviour (2015 Cairns, AUS). "Grandparental effects of breeding age on lifespan in the neriid fly, *T. angusticollis*."

Professional Employment

Tutor/demonstrator at the University of New South Wales (2015-2019):

BIOS1101 *Evolution & Functional Biology*; BIOS1301 *Ecology, Sustainability and Environmental Science*; BIOS2011 *Evolutionary and Physiological Ecology*; BIOS3171 *Evolution*.

Postdoctoral researcher at the University of New South Wales (current): In Professor Russell Bonduriansky's group I am currently working as a postdoctoral researcher setting up the clonal species of springtail, *Falsomia candida* to examine environmental effects that are passed on non-genetically to offspring to influence the process of ageing. I am also working on a native carrion fly, *Piophilina vitrea* that has not been studied in any detail, apart from taxonomic classification.

Reviewing editor for the *Journal of Evolutionary Biology*: I have recently been appointed a 4 year position with this society-based journal on the editorial board.

Publications

Wylde, Z., & Bonduriansky, R. (2020). Condition dependence of phenotypic integration and the evolvability of genitalic traits in a neriid fly. *Biology Letters* 16: 20200124.

<http://dx.doi.org/10.1098/rsbl.2020.0124>.

Wylde, Z., Spagopoulou, F., Hooper, A.K., Maklakov, A.A., Bonduriansky, R. (2019). Parental breeding age effects on descendants' longevity interact over 2 generations in matriline and patriline. *PLoS Biology* 17(11): e3000556. <https://doi.org/10.1371/journal.pbio.3000556>

Wylde, Z., Crean, A. and Bonduriansky, R. (2019). Effects of condition and sperm competition risk on sperm allocation and storage in neriid flies. *Behavioural Ecology*, ar2178.

<https://doi.org/10.1093/beheco/ar2178>

Wylde, Z., Adler, L., Crean, A. and Bonduriansky, R. (2019). Perceived dominance status affects chemical signalling in the neriid fly *Telostylinus angusticollis*. *Animal Behaviour* 158: 161-174.

<https://doi.org/10.1016/j.anbehav.2019.10.013>

Hooper, A.K., Spagopoulou, F., Wylde, Z., Maklakov, A.A. and Bonduriansky, R. (2017). Ontogenetic timing as a condition-dependent life history trait: high-condition males develop quickly, peak early and age fast. *Evolution* 71: 671-685. <https://doi.org/10.1111/evo.13172>

Outreach

Wylde, Z. Australasian Evolution Society blog; April 11th 2016. "The ties that bind; Grand-parental qualities affect the lifespan of descendants." <https://austevol.wordpress.com/2016/04/11/the-ties-that-bind-grand-parental-qualities-affect-the-lifespan-of-descendants/>

References

Professor Russell Bonduriansky (PhD supervisor at UNSW).

<http://www.bonduriansky.net/index.htm>

email: bonduriansky@gmail.com

Dr Angela Crean (PhD co-supervisor at UNSW)

<https://sydney.edu.au/science/about/our-people/academic-staff/angela-crean.html>

Email: angela.crean@sydney.edu.au

Dr Hayley Bates (Course coordinator & Senior Lecturer UNSW: employer for tutoring work at UNSW (see courses above))

<https://www.bees.unsw.edu.au/hayley-bates>

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Memberships

ASSAB- Australasian Society for the Study of Animal Behaviour

ESEB- European Society of Evolutionary Biology

SSE- Society for the Study of Evolution

RZS NSW- Royal Zoological Society of New South Wales

AES- Australasian Evolution Society
