



# Jeremy Wilson

BSc (Hons Class 1A)

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[https://researchgate.net/profile/Jeremy\\_Wilson8](https://researchgate.net/profile/Jeremy_Wilson8)

[http://scholar.google.com.au/citations?hl=en&user=YyCf0jsAAAAJ&view\\_op=list\\_works&gmla=AJsNF6TQIWTdXZCVJvRdzrVunF-e0H5KS9Zv40j5fualGDgY1GKqtb\\_f79uTOMCkKwc6yLReAoRof68c\\_ZmDyPTosYi0QR8Rg](http://scholar.google.com.au/citations?hl=en&user=YyCf0jsAAAAJ&view_op=list_works&gmla=AJsNF6TQIWTdXZCVJvRdzrVunF-e0H5KS9Zv40j5fualGDgY1GKqtb_f79uTOMCkKwc6yLReAoRof68c_ZmDyPTosYi0QR8Rg)

## Summary

The golden trapdoor spiders (Euoplos) occur throughout the mesic regions of Australia, but appear to be especially diverse in south-eastern Queensland. These spiders live in burrows with camouflaged 'trapdoor' entrances. Although they occur in high densities in many of the forests of eastern Australia, they can be highly cryptic. Currently, most species of golden trapdoor spider remain undescribed and we understand very little about the biology of the group. The goal of my Ph.D. is to study the morphology (physical appearance) of these spiders and combine this information with modern genetic analysis methods to investigate their evolutionary history and describe new species. This research is important because it contributes to our overall understanding of evolution and speciation, and also because it will aid in the conservation of an iconic group of Australian spiders.

### Publications:

**Wilson, J.D.**, Hughes, J.M., Raven, R.J., Rix, M.G. and Schmidt, D.J., 2018. Spiny trapdoor spiders (Euoplos) of eastern Australia: Broadly sympatric clades are differentiated by burrow architecture and male morphology. *Molecular phylogenetics and evolution*, 122, pp.157-165.

**Wilson, J.D.**, Rix, M.G., Raven, R.J., Schmidt, D.J. and Hughes, J.M., 2018. Systematics of the palisade trapdoor spiders (Euoplos) of south-eastern Queensland (Araneae: Mygalomorphae: Idiopidae): four new species distinguished by their burrow entrance architecture. *Invertebrate Systematics*, in press.

### Public Outreach:

**2016:** Weekend Australian Article: 'New spiders aren't so incy wincy'.

**2016:** Online news outlets including ABC online, News.com.au, Daily Mail in August 2016: New trapdoor spider discoveries.

**2016:** Featured on Channel 7 News, August 2016.

**2016-2017:** Television programs: Scope- 'Insects and Spiders' episode, Totally Wild- 'trapdoor spiders' episode 24/117.

**2016-2018:** Presenter for 'spiders live display' at World Science Festival, Brisbane.

**2017:** Group Leader, Mygalomorphae, Mt Tambourine BioBlitz, Wildlife Queensland Scenic Rim.

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## Research Expertise

- Arachnology
- Systematic Biology
- Molecular Phylogenetics
- Species Delimitation
- Australian Biogeography