

RACHEL SLATYER

Curriculum Vitae

CONTACT DETAILS

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EDUCATION

- 2016 Doctor of Philosophy, School of Biosciences, *University of Melbourne*
Geographic Range and the Mountain Niche: Ecology, Adaptation and Environmental Change
- 2010 Bachelor of Science (Honours), *Australian National University*
Majors: Genetics; Ecology and Evolution
Honours topic: Direct and indirect benefits of multiple mating
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RESEARCH APPOINTMENTS

- May 2016 – present Postdoctoral Fellow, University of Wisconsin-Madison, Department of Entomology
- January 2016 Research assistant, NSW Government, Office of Environment and Heritage
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TEACHING APPOINTMENTS

- 2016 Field studies in functional ecology, *Australian National University*, co-convenor
- 2016 Advanced field studies in functional ecology, *Australian National University*, co-convenor
- 2013, 2015 Ecology, *University of Melbourne*, demonstrator
- 2012 Biology, *University of Melbourne*, demonstrator
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GRANTS

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|------|---|----------|
| 2014 | Holsworth Wildlife Research Endowment student grant
<i>Distribution limits and genetic structure in Australian alpine grasshoppers</i> | \$7000 |
| | Ecological Society of Australia conference travel grant | \$580 |
| | National Geographic Society young explorer's grant
<i>Heating up in the high country: predicting the impacts of climate change on alpine beetles</i> | \$4,900 |
| | Norman Wettenhall Foundation small environmental grant
<i>Alpine insects of Australia: developing a field guide for Australia's high country insects</i> | \$5,000 |
| | Ecological Society of Australia student research grant
<i>Testing the effects of reduced snow cover on alpine invertebrate communities</i> | \$1,500 |
| 2013 | Georgina Sweet Award
<i>Measuring the impacts of reduced snow on alpine invertebrates</i> | \$6,000 |
| | Hermon Slade Foundation grant (with N. Tatarinic and H. Song; 2013-2016)
<i>Speciation in the mountains: phylogenomics of the alpine grasshopper genus Kosciuscola</i> | \$51,000 |
| | Holsworth Wildlife Research Endowment student grant
<i>Distribution limits and genetic structure in Australian alpine grasshoppers</i> | \$7,500 |
| | Orthopterists' Society student research grant
<i>Getting colder in a warmer world: snow cover and egg hatching success in an Australian alpine grasshopper</i> | \$950 |

	VEAC Bill Borthwick Scholarship <i>Estimating population connectivity in the Victorian high country</i>	\$1,950
2012	Holsworth Wildlife Research Endowment student grant <i>Distribution limits and genetic structure in Australian alpine grasshoppers</i>	\$6,000
2009	Australasian Society for the Study of Animal Behaviour student research grant <i>Polyandry in the fiddler crab Uca mjoebergi</i>	\$1,000

SCHOLARSHIPS AND AWARDS

2016	Sir Keith Murdoch Fellowship, <i>American Australian Association</i>
2014	Overseas Research Experience Scholarship, <i>University of Melbourne</i>
2011	Australian Postgraduate Award, <i>University of Melbourne</i> Helen Macpherson Smith Scholarship (Science), <i>University of Melbourne</i>
2010	University Medal in Botany & Zoology, <i>Australian National University</i> Anjeli Nathan Memorial Scholarship for Honours, <i>Australian National University</i>
2008	L.D. Pryor prize for 3 rd -year zoology, <i>Australian National University</i> Antonella Salpietro prize for marine ecology, <i>Australian National University</i>
2007	Field Naturalists Association of Canberra Prize for 2 nd -year zoology, <i>Australian National University</i>
2005	Distinguished Scholar Program in Science, <i>Australian National University</i>

PUBLICATIONS

10. **Slatyer, R. A.**, Schoville, S. D. (2016) Physiological limits along an elevational gradient in a radiation of montane ground beetles, *PLoS ONE*, 11: e0151959.
 9. **Slatyer, R. A.**, Nash, M. A., Hoffmann, A. A. (2015) Scale-dependent thermal tolerance variation in Australian mountain grasshoppers, *Ecography*, 38: 001-011.
 8. Schoville, S. D, **Slatyer, R. A.**, Bergdahl, J. C., Valdez, G. A. (2015) Conserved and narrow temperature limits in alpine insects: thermal tolerance and supercooling points of the ice-crawlers, *Grylloblatta* (Insecta: Grylloblattodea: Grylloblattidae), *Journal of Insect Physiology*, 78: 55-61.
 7. Endo, Y., Nash, M.A., Hoffmann, A.A., **Slatyer, R.A.**, Miller, A.D (2015) Comparative phylogeography of alpine invertebrates indicates deep lineage diversification and historical refugia in the Australian Alps, *Journal of Biogeography*, 42(1): 89-102.
 6. **Slatyer, R. A.**, Nash, M. A., Miller, A. D., Endo, Y., Umbers, D. L., Hoffmann, A.A. (2014) Strong genetic structure corresponds to small-scale geographic breaks in the Australian alpine grasshopper *Kosciuscola tristis*, *BMC Evolutionary Biology*, 14(1), 204. (Highly Accessed)
 5. **Slatyer, R.A.**, Hirst, M., Sexton, J.P. (2013) Niche breadth predicts range size: a general ecological pattern, *Ecology Letters*, 16:1104-1114.
 4. **Slatyer, R.A.**, Jennions, M.D., Backwell, P.R.Y. (2012) Polyandry occurs because females initially trade sex for protection, *Animal Behaviour*, 83:1203-1206.
 3. **Slatyer, R.A.**, Mautz, B., Backwell, P.R.Y., Jennions, M.D. (2012) Estimating the genetic benefits of cryptic female choice: a meta-analysis of polyandry experiments, *Biological Reviews*, 87: 1-33.
 2. **Slatyer, R.A.** (2010) Climate change impacts on Australia's alpine ecosystems, *ANU Undergraduate Research Journal*, 2: 81-98.
 1. **Slatyer, R.A.**, Fok, E.S.Y., Hocking, R., Backwell, P.R.Y. (2008) Why do fiddler crabs build chimneys?, *Biological Letters*, 4(6): 616-618.
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PRESENTATIONS

2015 Oral presentation. **Slatyer, R.A.**, Nash, M.A., Hoffmann, A.A. Measuring the effects of reduced snow cover on alpine arthropods: an Australian perspective. *Entomological Society of America annual meeting, Minneapolis, USA.*

Oral presentation. **Slatyer, R.A.**, Nash, M.A., Hoffmann, A.A. Measuring the effects of reduced snow cover on Australia's alpine invertebrates. *Ecological Society of Australia annual conference, Adelaide.*

2014 Oral presentation. **Slatyer, R.A.**, Nash, M.A., Hoffmann, A.A. Some like it hot, some like it cold: thermal tolerance in Australian alpine grasshoppers. *Entomological Society of America annual meeting, Portland, USA.*

Oral presentation. **Slatyer, R.A.**, Nash, M.A., Hoffmann, A.A. Inter- and intra-specific variation in thermal tolerance among Australian mountain grasshoppers. *Ecological Society of Australia annual conference, Alice Springs.*

2012 Poster presentation. **Slatyer, R.A.**, Nash, M.A., Hoffmann, A.A. Linking thermal tolerance traits to distribution limits and genetic structure in Australian alpine grasshoppers. *Ecological Society of Australia annual conference, Melbourne.*

Invited oral presentation. **Slatyer, R.A.** The evolution of niche width. *Ecological Society of Australia postgraduate workshop, Melbourne.*

PROFESSIONAL COMMUNITY CONTRIBUTIONS

Peer Review

I have reviewed for journals including: *Animal Behaviour*, *Austral Ecology*, *Current Zoology*, *Ecology*, *Ecology and Evolution*, *Global Ecology and Biogeography*, *Journal of Biogeography*, *Molecular Ecology* and *Oikos* (Publons profile: publons.com/a/1207306/).

Conference organization

2014 – Organizing committee, Melbourne Sustainability Perspectives and Ethics Conference
