

# Rowan Horace McGinley

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## EDUCATION & EMPLOYMENT

- 2016-present Postdoctoral Research Associate, University of Nebraska-Lincoln, NE, USA
- 2016 Endeavour Postdoctoral Research Fellow, University of Nebraska-Lincoln, NE, USA
- 2010-2015 PhD in Biological Sciences, Macquarie University, NSW, Australia
- 2006-2009 BSc with First Class Honours in Biological Sciences, Macquarie University, NSW, Australia

## PUBLICATIONS

- 10 Choi N, Bern M, Elias DO, **McGinley RH**, Rosenthal MF & Hebets, EA. *IN PRESS*. A mismatch between signal transmission efficacy and mating success calls into question the function of complex signals. *Animal Behaviour*.
- 9 Rosenthal MF, Hebets EA, Kessler B, **McGinley RH**, Elias DO. 2019 The effects of microhabitat specialization on mating communication in a wolf spider. *Behavioral Ecology*, arz091.
- 8 Hebets EA & **McGinley RH**. 2018. Multi-modal signalling. In Choe, J. (Ed.) *Encyclopedia of Animal Behavior 2nd Edition*. Cambridge, MA, USA, Academic Press.
- 7 Mendez V, **McGinley RH**, & Taylor PW. 2017. Mating-induced sexual inhibition in the jumping spider *Servaea incana* (Araneae: Salticidae): a fast-acting and long-lasting effect. *PLoS ONE* 12(10): e0184940.
- 6 Mendez V, **McGinley RH**, & Taylor PW. 2017. Seasonal variation in sexual opportunities of *Servaea incana* jumping spiders. *Ethology Ecology & Evolution*, 1-13.
- 5 **McGinley RH** & Taylor PW. 2016. Video playback experiments support a role for visual assessment of opponent size in male-male contests of *Servaea incana* jumping spiders. *Behavioral Ecology and Sociobiology*, **70**, 821-829.
- 4 Soley F, **McGinley RH**, Collins SR & Taylor PW. 2016. Natural history observations of a long-legged jumping spider, *Megalostia mainae* (Araneae: Salticidae). *New Zealand Journal of Zoology*, **43**, 65-83.
- 3 **McGinley RH**, Mendez V & Taylor, PW. 2015. Natural history and display behaviour of *Servaea incana*, a common and widespread Australian jumping spider (Araneae, Salticidae). *Australian Journal of Zoology*, **63**, 300-319.
- 2 **McGinley RH**, Prenter J & Taylor PW. 2015. Assessment strategies and decision-making in male-male contests of *Servaea incana* jumping spiders. *Animal Behaviour*, **101**, 89-95.
- 1 **McGinley RH**, Prenter J & Taylor PW. 2013. Whole-organism performance in a jumping spider, *Servaea incana* (Araneae: Salticidae): links with morphology and between performance traits. *Biological Journal of the Linnean Society*, **110**, 644-657.

## FUNDING

- 2018 University of Nebraska-Lincoln Postdoc Travel Grant (\$750)
- 2016 Endeavour Postdoctoral Research Fellowship, Australian Government (\$23,000)
- 2013 Macquarie University Postgraduate Research Fund Travel Grant (\$5,000)
- 2010-2014 Australian Postgraduate Award PhD Scholarship (~\$82,500)
- 2009 Brain Behaviour & Evolution Honours Scholarship, Macquarie University (\$4,000)
- 2008 Biology Summer Research Scholarship, Macquarie University

- 2007 Chemistry Summer Research Scholarship, Macquarie University  
 2007 Biology Summer Research Scholarship, Macquarie University  
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## AWARDS

- 2018 Runner-Up Best Outreach Activity at SciComm 2018 Community Science Festival  
 2009 Runner-Up Best Student Talk, Australian Society for the Study of Animal Behaviour  
 2008 Vice-Chancellor's Commendation for Academic Excellence, Macquarie University

## CONFERENCE PRESENTATIONS

- 2019 **McGinley RH**, Bond JE, Starrett JR & Hebets EA. Links between circadian rhythms, light environments and courtship success in *Schizocosa* wolf spiders. *Behaviour2019*, Chicago, IL, USA.
- 2019 **McGinley RH**, Ramnarayan K, Taylor PW. Hunger influences behaviour but not outcome in male-male contests of *Servaea incana* jumping spiders. *International Congress of Arachnology*, Christchurch, New Zealand. Poster.
- 2019 **McGinley RH**, Bond JE, Starrett JR & Hebets EA. Daily activity patterns match the most effective light environments for courtship in *Schizocosa* wolf spiders. *International Congress of Arachnology*, Christchurch, New Zealand. Oral Presentation.
- 2018 **McGinley RH**, Bond JE, Starrett JR & Hebets EA. Understanding the structure and function of complex signalling in *Schizocosa* wolf spiders. *Meeting of the International Society for Behavioral Ecology*, Minneapolis, MN, USA. Oral Presentation.
- 2018 **McGinley RH**, Bond JE, Starrett JR & Hebets EA. The evolution of visual signals with relation to daily activity patterns in the wolf spider genus, *Schizocosa*. *American Arachnological Society Meeting*, Ypsilanti, MI, USA. Poster.
- 2017 **McGinley RH**, Bond JE, Starrett JR & Hebets EA. A comparative approach to understanding complex signalling. *American Arachnological Society Meeting*, Querétaro, Mexico. Poster.
- 2017 **McGinley RH** & Hebets EA. A comparative approach to understanding complex signalling. *Animal Behavior Society Meeting*, Toronto, Canada. Poster.
- 2016 **McGinley RH** & Hebets EA. Relationships between whole-organism performance, morphology and behavior in spiders. *Animal Behavior Society Meeting*, Columbia, MO, USA. Oral Presentation.
- 2016 **McGinley RH**, Prenter J, Taylor PW. Assessment strategies in male-male contests of jumping spiders. *International Congress of Arachnology*, Golden, CO, USA. Oral Presentation.
- 2016 **McGinley RH**, Watts JC & Hebets EA. Relationships between whole-organism performance, morphology and behaviour in spiders. *International Congress of Arachnology*, Golden, CO, USA. Poster.
- 2015 **McGinley RH**, Prenter J & Taylor PW. Assessment strategies in jumping spider contests. *Behaviour2015*, Cairns, QLD, Australia. *Invited Symposium Talk*.

- 2014 **McGinley RH**, Prenter J & Taylor PW. Assessment strategies and decision-making in jumping spider contests. *Meeting of the Australasian Society for the Study of Animal Behaviour*, Blue Mountains, NSW, Australia. Oral Presentation.
- 2013 **McGinley RH**, Peckmezian T, Hebets EA, Taylor PW, Sovik E & Barron AB. Biogenic amines as mediators of spider behaviour. *Behaviour2013*, NewcastleGateshead, UK. Poster.
- 2013 **McGinley RH**, Peckmezian T, Hebets EA, Taylor PW, Sovik E & Barron AB. Biogenic amines as mediators of spider behavior. *Animal Behavior Society Meeting*, Boulder, CO, USA. Oral Presentation.
- 2013 **McGinley RH** & Taylor PW. Using video playback to determine the role of visual opponent assessment in a jumping spider (Salticidae). *Animal Behavior Society Meeting*, Boulder, CO, USA. Poster.
- 2013 Mendez V, **McGinley RH** & Taylor PW. Natural history and phenology of *Servaea incana*. *Animal Behavior Society Meeting*, Boulder, CO, USA. Poster.
- 2012 **McGinley RH**, Hebets EA, Taylor PW, Sovik E & Barron AB. Biogenic amines as mediators of spider behaviour. *Joint Meeting of the Australian Entomological Society & the Australasian Arachnological Society*, Hobart, Tasmania, Australia. Oral Presentation.
- 2012 Mendez V, **McGinley RH**, & Taylor PW. Phenology and life history of a jumping spider, *Servaea vestita*. *Joint Meeting of the Australian Entomological Society & the Australasian Arachnological Society*, Hobart, Tasmania, Australia. Poster.
- 2012 **McGinley RH** & Taylor PW. Using video playback to determine the role of visual opponent assessment in a jumping spider (Salticidae). *Australasian Society for the Study of Animal Behaviour*, Geelong, Victoria, Australia. Oral Presentation.
- 2010 **McGinley RH**, Prenter J, Taylor PW. Assessing Assessment in Salticid Contests. *Meeting of the Australian Society for the Study of Animal Behaviour*, Narrabri, NSW, Australia. **Awarded Runner-Up Best Student Talk.**

## TEACHING EXPERIENCE

- 2018 Lecturer, BIOS 462/862 *Animal Behavior*, Univeristy of Nebraska-Lincoln
- 2015 Guest Lecturer, BIOL260: *The Science of Sex*, Macquarie University
- 2015 Unit Convenor SCI140: *Introduction to Brain, Behaviour & Evolution*, Macquarie University (offered online via Open Universities Australia)
- 2015 Teaching Assistant, BBE100: *Introduction to Brain, Behaviour & Evolution*, Macquarie University
- 2014 Teaching Assistant, SCI140: *Introduction to Brain, Behaviour & Evolution*, Macquarie University (offered online via Open Universities Australia)
- 2013 Head Teaching Assistant, BBE100: *Introduction to Brain, Behaviour & Evolution*, Macquarie University
- 2011 Teaching Assistant, BBE101: *Evolution and Human Behaviour*, Macquarie University
- 2011 Teaching Assistant, BBE100: *Introduction to Brain, Behaviour & Evolution*, Macquarie University

## STUDENTS MENTORED (\* indicates female or minority)

Student Name	University	
Ramnarayan Krishnan*	Macquarie University	Undergraduate
Jeanne Delor*	Macquarie University/Agrocampus Ouest	Undergraduate
Louise Crépeau*	Macquarie University/Agrocampus Ouest	Undergraduate
Thomas Stannard	Macquarie University/Agrocampus Ouest	Undergraduate
Fiona Shogren*	University of Nebraska-Lincoln	Undergraduate
Bridget Bickner*	University of Nebraska-Lincoln	Undergraduate
Dan Schoenberg	University of Nebraska-Lincoln	Undergraduate
Laura Segura*	UNL/Universidad de Costa Rica	Undergraduate
Micaela Raymond	University of Nebraska-Lincoln	Undergraduate
Ninian Tong*	University of Nebraska-Lincoln	Undergraduate
Miriam Beltran*	University of Nebraska-Lincoln	Undergraduate
Flinn O'Hara	UNL/Manchester University	Undergraduate Honors
Laura Gatch*	University of Nebraska-Lincoln	Undergraduate Honors
Colton Watts	University of Nebraska-Lincoln	Graduate
Tyler Corey	University of Nebraska-Lincoln	Graduate
Alissa Anderson*	University of Nebraska-Lincoln	Graduate
Noori Choi*	University of Nebraska-Lincoln	Graduate
Martha Patricia Torres*	UNL/Universidad de los Andes	Graduate

## PROFESSIONAL DEVELOPMENT

- 2018 Workshop: Writing and Using Learning Objectives, University of Nebraska-Lincoln
- 2018 Workshop: Principles of Learning, University of Nebraska-Lincoln
- 2018 Workshop: AAAS Science Communication Fundamentals Workshop at SciComm 2018
- 2017 Ecology & Evolution of Arachnids Course, Organization for Tropical Studies, Costa Rica

## OUTREACH

- 2018 *SciComm Community Science Festival*, University of Nebraska State Museum, NE, USA.  
Used arachnids for informal science education and community engagement as part of the SciComm conference's science festival. **Awarded Runner-Up Best Outreach Activity.**
- 2017 *Eight-Legged Encounters at BugFest*, Toledo Zoo, OH, USA.  
Participated in event using arachnids for informal science education and community engagement.
- 2016 *Eight-Legged Encounters at USA Science & Engineering Festival*, Washington DC, USA.  
Participated in event using arachnids for informal science education and community engagement.
- 2014 Collected and handled peacock spiders and assassin bugs to record footage for two BBC documentaries and an art exhibition (On the Origin of Art, Maria Fernando Cardoso).

**REVIEWER FOR**

American Naturalist  
Animal Cognition  
Animal Behaviour  
Behavioral Ecology

Behavioural Ecology and Sociobiology  
Ethology  
PLOS ONE  
Scientific Reports

**LANGUAGES**

Basic Spanish