

Timothy Andrew Hammer

Curriculum Vitae

School of Biological Sciences, The University of Western Australia
35 Stirling Hwy, Crawley, WA, Australia 6009
E-mail: timothy.hammer@research.uwa.edu.au
Website: <http://www.tim-hammer.com>

EDUCATION

PhD expected 2019, Biological Sciences, The University of Western Australia

Thesis: *Molecular systematics and evolution of Ptilotus (Amaranthaceae)*

Supervisors: Kevin Thiele, Ladislav Mucina, Megan Ryan & Ian Small

Master of Science, 2014, Biology, Old Dominion University

Bachelor of Science, 2012, Biology, Old Dominion University, *summa cum laude*

PEER-REVIEWED PUBLICATIONS

- Hammer TA**, Macintyre PD, Nge FJ, Davis RW, Mucina L & Thiele KR. **2018**. The noble and the exalted: A multidisciplinary approach to resolving a taxonomic controversy within *Ptilotus* (Amaranthaceae). *Australian Systematic Botany* 31(3): 262–280. <https://doi.org/10.1071/SB17062>
- Davis RW & **Hammer TA**. **2018**. *Ptilotus yapukaratja* (Amaranthaceae), a new species from the Gascoyne bioregion of Western Australia. *Nuytsia* 29: 157–160. <https://florabase.dpaw.wa.gov.au/nuytsia/article/893>
- Hammer TA** & Davis RW. **2018**. *Ptilotus actinocladus* (Amaranthaceae), a new and rare species from the Gascoyne bioregion, Western Australia. *Nuytsia* 29: 145–149. <https://florabase.dpaw.wa.gov.au/nuytsia/article/877>
- Hammer TA**, Davis RW & Thiele KR. **2018**. The showy and the shy: reinstatement of two species from *Ptilotus gaudichaudii* (Amaranthaceae). *Australian Systematic Botany* 31: 1–7. <https://doi.org/10.1071/SB17026>
- Davis RW & **Hammer TA**. **2017**. *Ptilotus benlii* (Amaranthaceae), a new species from Western Australia. *Nuytsia* 28: 299–302. <https://florabase.dpaw.wa.gov.au/nuytsia/article/853>
- Hammer TA**, Davis RW & Thiele KR. **2017**. *Wadithamnus*, a new monotypic genus in Amaranthaceae. *Phytotaxa* 295(2): 173–184. <https://doi.org/10.11646/phytotaxa.295.2.5>
- Hammer TA** & Davis RW. **2017**. Synonymisation of three Western Australian taxa within *Ptilotus* (Amaranthaceae). *Nuytsia* 28: 133–134. <https://florabase.dpaw.wa.gov.au/nuytsia/article/821>
- Davis RW, **Hammer TA** & Thiele KR. **2016**. A new and rare species of *Nymphoides* (Menyanthaceae) from the North West of Western Australia. *Nuytsia* 27: 245–252. <https://florabase.dpaw.wa.gov.au/nuytsia/article/794>
- Hammer T**, Davis R & Thiele K. **2015**. A molecular framework phylogeny for *Ptilotus* (Amaranthaceae): Evidence for the rapid diversification of an arid Australian genus. *Taxon* 64(2): 272–285. <http://dx.doi.org/10.12705/642.6>
- Davis R.W, **Hammer TA** & Thiele KR. **2014**. Two new and rare species of *Ptilotus* (Amaranthaceae) from the Eneabba sandplains, Western Australia. *Nuytsia* 24: 123–129. <https://florabase.dpaw.wa.gov.au/nuytsia/article/712>

MANUSCRIPTS

Hammer TA. submitted. The *Ptilotus murrayi* species group: synonymisation of *P. petiolatus* under *P. murrayi* and description of the new Western Australian species *P. unguiculatus* (Amaranthaceae). *Swainsona*.

OTHER SELECTED PUBLICATIONS

Hammer TA & Davis RW. 2017. Pollination biology in *Ptilotus*. *Landscape* 32(4): 45.

Hammer TA, Davis RW & Thiele KR. 2017. Species of *Ptilotus*, in: KeyBase: Flowering plants of Australia. <http://keybase.rbg.vic.gov.au/keys/show/6609>

Hammer TA, Davis RW & Thiele KR. 2017. Species of *Ptilotus*, in: KeyBase: Flowering plants of Western Australia. <http://keybase.rbg.vic.gov.au/keys/show/6627>

AWARDS, GRANTS AND HONOURS

- 2017 Australasian Systematic Botany Society Student Travel Award
- 2015 Forrest Research Foundation PhD Scholarship
- 2014 American Society of Plant Taxonomists Student Travel Award
- 2014 Best oral presentation by a Master's student, Biology Graduate Student Organization Spring Symposium, Old Dominion University
- 2012 Outstanding Undergraduate in Biological Sciences, Old Dominion University
- 2011–2012 Dean's List and Dean's Perfect Scholar, Old Dominion University

RESEARCH EXPERIENCE

- 2015– PhD candidate, The University of Western Australia
 - Taxonomy/systematics – Supervisor: Dr. Kevin Thiele
 - Biogeography – Supervisor: Prof. Ladislav Mucina
 - Plant physiology – Supervisor: Assoc/Prof. Megan Ryan
 - Molecular biology – Supervisor: Prof. Ian Small
- 2012–2014 Master's student, Old Dominion University
 - Molecular systematics – Supervisors: Drs. Tim Motley & Kevin Thiele

HERBARIUM RESEARCH AND CURATION

- 2015– Postgraduate, Western Australian Herbarium (PERTH)
- 2015– Postgraduate, the University of Western Australia Herbarium (UWA)
- 2017 Visitor, State Herbarium of South Australia (AD)
- 2016 Visitor, Northern Territory Herbarium, Alice Springs (NT)
- 2016 Visitor, State Herbarium of South Australia (AD)
- 2014 Visitor, United States National Herbarium (US)
- 2012–2014 Graduate student, Old Dominion University Herbarium (ODU)
- 2013 Visitor, Western Australian Herbarium (PERTH)

FIELD EXPERIENCE

- 2016 Nov Western Australia: Jarrah Forrest & Geraldton Sandplains
- 2016 Oct South Australia: Adelaide, Flinders Ranges & Stony Plains
- 2016 Sep Northern Territory: Finke and MacDonnell Ranges

- 2016 Sep Western Australia: Avon Wheatbelt & Murchison
 2015 Oct Western Australia: Jarrah Forrest, Esperance Plains & Stirling Ranges
 2015 Sep Western Australia: Avon Wheatbelt, Murchison & Geraldton Sandplains
 2015 Aug Western Australia: Carnarvon, Gascoyne, Murchison & Pilbara
 2013 Sep Western Australia: Central Ranges
 2013 Aug Northern Territory: MacDonnell Ranges & Central Ranges
 2013 Aug Western Australia: Southwest, Goldfields, Murchison & Gascoyne

TEACHING EMPLOYMENT

- 2018 Demonstrator – Plant Diversity and Evolution (PLNT 2204)
 The University of Western Australia, Australia (supervisor: Dr. K. Bell)
 2018 Tutor – Conservation Biology (BIOL 2261)
 The University of Western Australia, Australia (supervisors: Dr. P. Poot & Dr. N. Mitchell)
 2016 Demonstrator – Plant Diversity and Evolution (PLNT 2204)
 The University of Western Australia, Australia (supervisor: Dr. K. Thiele)
 2016 Demonstrator – Frontiers in Biology (BIOL 1130)
 The University of Western Australia, Australia (supervisor: Dr. S. Barker)
 2015 Demonstrator – Plant Diversity and Evolution (PLNT 2204)
 The University of Western Australia, Australia (supervisor: Dr. K. Thiele)
 2013 Graduate Teaching Assistant – Human Biology (BIO 109)
 Old Dominion University, USA (supervisor: Dr. T. Lobova)
 2012 Graduate Teaching Assistant – Environmental Science (BIO 108)
 Old Dominion University, USA (supervisor: Dr. T. Lobova)

CONFERENCE PRESENTATIONS

- Hammer T**, Zhong X, Colas des Francs-Small, C, Nevill, P, Small, I & Thiele K. **2018**. Mulling over the mulla mullas: resolving of the backbone of *Ptilotus* and establishing a new taxonomic framework for the aervoid clade (Amaranthaceae). Australasian Systematic Botany Society Conference 2018—Mind the Gap. Brisbane, Queensland: 4–6 December (Oral Presentation). [scheduled]
- Hammer T**, Brundrett, M, Macintyre P, Keighery G. **2018**. Recognising biodiversity hotspots at multiple overlapping scales in Western Australia. The Royal Society of Western Australia Symposium 2018. Crawley, Western Australia: 27–28 July (Poster Presentation).
- Hammer TA**, Macintyre P, Nge F, Davis R, Mucina L & Thiele K. **2017**. The noble and the exalted: resolving the relationships within *Ptilotus nobilis* (Amaranthaceae). Systematics 2017: Integrating Systematics for Conservation and Ecology. Adelaide, SA, Australia: 27–29 November (Oral Presentation).
- Hammer TA**, Davis RW & Thiele KR. **2015**. A molecular framework phylogeny for *Ptilotus* R.Br. (Amaranthaceae). Society of Australian Systematic Biologists 2015. Fremantle, WA, Australia: 6–9 December (Oral Presentation).
- Hammer TA**, Davis RW & Thiele KR. **2014**. A molecular framework phylogeny for *Ptilotus* R.Br. (Amaranthaceae): Implications for classifications within the aervoids. Botany 2014: new frontiers in botany. Boise, ID, USA: 26–30 June (Oral Presentation).

Hammer TA, Davis RW & Thiele KR. 2014. A molecular framework phylogeny for *Ptilotus* R.Br. (Amaranthaceae). Association of Southeastern Biologists: 75th annual meeting. Spartanburg, SC, USA: 2–5 April (Oral Presentation).

Hammer TA, Thiele KR, Davis RW & Motley TJ. 2013. Preliminary ITS phylogeny of the Australian genus *Ptilotus* (Amaranthaceae). Botany 2013: celebrating diversity. New Orleans, LA, USA: 27–31 July (Poster Presentation).

SERVICE TO PROFESSION

Refereed (peer-reviewed) for:

- *Taxon* (Journal of the International Association for Plant Taxonomy)
- *Austrobaileya* (Journal of the Queensland Herbarium)

Participated in collaborative workshop for the development of the *Decadal Plan for Taxonomy and Biosystematics in Australia and New Zealand 2018–2027*.

INVITED PUBLIC OUTREACH LECTURES

- 2018 Wildflower Society of Western Australia, Northern Suburbs Branch
Title: More than mulla mullas: the amazing diversity of *Ptilotus* and its amaranth relatives
- 2017 Wildflower Society of Western Australia, Perth Branch
Title: Exploring the diversity of *Ptilotus* (mulla mulla).
- 2015 Wildflower Society of Western Australia, Eastern Hills Branch
Title: Molecular systematics of *Ptilotus* (Amaranthaceae)

PROFESSIONAL MEMBERSHIPS

Australasian Systematic Botany Society, Inc.
International Association for Plant Taxonomy