

## SCOTT VERNON CHARLES GROOM

School of Agriculture, Food and Wine – The University of Adelaide  
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### EDUCATION

- 26 Sept 2014**     **Doctor of Philosophy**     **Flinders University, Adelaide**  
*Bees of the SW Pacific: Evolution of an island pollinator group*  
Analysis of mtDNA revealed simultaneous responses of *Lasioglossum* (*Homalictus*) populations across archipelagos coincide with glaciation. Megachilidae and Apidae species arrived very recently.
- 18 April 2008**     **Bachelor of Science (Honours)**     **Flinders University, Adelaide**  
GPA: 6.91/7.0 (First Class)  
*Origin of Homalictus: Phylogenetics of a halictine bee subgenus*  
DNA analyses infer a northeast Australia origin of *Lasioglossum* (*Homalictus*) with subsequent radiation to SW Australia and NE to Indonesia.
- 20 April 2007**     **Bachelor of Science**     **Flinders University, Adelaide**  
GPA: 5.68/7.0

### PAST APPOINTMENTS

- Jan 17 – Present**     **Postdoctoral Fellow**  
AgriFutures Securing Pollination Project  
*School of Agriculture, Food & Wine, University of Adelaide – South Australia*  
Determining the role of floral resources in supporting native pollinators
- Nov 14 – Nov 16**     **Postdoctoral Fellow**  
Japan Society for the Promotion of Science  
*Centre for Ecological Research, Kyoto University – Kyoto, Japan*  
Understanding the evolution of social behaviour through gene expression
- Feb 09 – Feb 10**     **Evolution and Conservation Biologist**  
AusAid Australian Youth Ambassador for Development  
*Kunming Institute of Zoology, CAS – Yunnan Province, China*  
DNA sequencing and data analysis, English editor of *Zoological Research*
- Aug 08 – Feb 09**     **Primary Research Officer**  
Fruit Fly Project – Eradication of Queensland and Mediterranean fruit fly  
*South Australian Research and Development Institute (SARDI)*  
Method development, testing, and implementation of sterile insect technique
- May 08 – Aug 08**     **Technical Officer**  
Research and Development Unit  
*ForestrySA - Lucas Regional Services*  
On-ground support of plantation establishment and monitoring
- Jan 08 – May 08**     **Administrative Support/Acting Secretary**  
Native Vegetation Council  
*Dept. of Water, Land, & Biodiversity Conservation – South Australia*  
Vegetation clearance assessment, database redevelopment

### AWARDS

- Aug 2015**     **Finalist: 1 of 5**  
PhD Research Excellence, South Australian Science Excellence Awards
- May 2015**     **Recipient**  
Vice-Chancellor's Prize for Doctoral Thesis Excellence: Biological Sciences
- Apr 2008**     **Recipient**  
Chancellor's Letter of Commendation – First Class Honours

## ORIGINAL REFEREED JOURNAL ARTICLES

#Equal author contributions

- 2018 **Groom SVC** & SM Rehan ‘Climate-mediated behavioural variability in facultatively social bees’ *Biological Journal of the Linnean Society* Vol. 125, pp. 165–170 doi:10.1093/biolinnean/bly101
- 2017 **Groom SVC**, Stevens MI, Ramage T, & MP Schwarz ‘Origins and implications of apid bees (Hymenoptera: Apidae) in French Polynesia’ *Entomological Science* Vol. 20, pp. 65-75 doi:10.1111/ens.12230  
Silva DP#, **Groom SVC**#, da Silva CRB, Stevens MI, & MP Schwarz ‘Potential pollination maintenance by an exotic allodapine bee under climate change scenarios in the Indo-Pacific region’ *Journal of Applied Entomology* Vol. 141, Iss. 1-2, pp. 122-132 doi: 10.1111/jen.12337
- 2016 da Silva CRB, **Groom SVC**, Stevens MI, & MP Schwarz ‘Current status of the introduced allodapine bee *Braunsapis puangensis* (Apidae: Xylocopinae: Allodapini) in Fiji’ *Austral Entomology* Vol. 55, pp. 43-48 doi:10.1111/aen.12149
- 2015 **Groom SVC**, Tuiwawa MV, Stevens MI, & MP Schwarz ‘Recent introduction of an allodapine bee into Fiji: a new model system for understanding biological invasions by pollinators’ *Insect Science* Vol. 22, Iss. 4, pp. 532-540 doi:10.1111/1744-7917.12136
- 2014 **Groom SVC**, Stevens MI, & MP Schwarz ‘Parallel responses of bees to past climate change in three isolated archipelagos of the south western Pacific’ *Proceedings of the Royal Society B: Biological Sciences* Vol. 281, Iss. 1785 doi:10.1098/rspb.2013.3293  
**Groom SVC**, Hayes SE, Ngo HT, Stevens MI, & MP Schwarz ‘Recipe for disruption: multiple recent arrivals of megachilid bees in Pacific archipelagos’ *Journal of Insect Conservation* Vol. 18, Iss. 4, pp. 613-622 doi:10.1007/s10841-014-9665-1  
**Groom SVC**, Ngo HT, Rehan SM, Skelton P, Stevens MI, & MP Schwarz ‘Multiple recent introductions of apid bees into Pacific archipelagos signify potentially large consequences for both agriculture and indigenous ecosystems’ *Biological Invasions* Vol. 16, Iss. 11, pp. 2293-2302 doi:10.1007/s10530-014-0664-7
- 2013 **Groom SVC**, Stevens MI, & MP Schwarz ‘Diversification of Fijian halictine bees: insights into a recent island radiation’ *Molecular Phylogenetics and Evolution* Vol. 68, Iss. 3, pp. 582-594 doi: 10.1007/s10841-014-9665-1  
Davies OK#, **Groom SVC**#, Ngo HT, Stevens, MI, & MP Schwarz ‘Diversity and origins of Fijian Leafcutter bees (Megachilidae)’ *Pacific Science* Vol. 67, No. 4, pp. 561-570. doi: 10.2984/67.4.7
- 2011 **Groom SVC** & MP Schwarz ‘Bees in the southwest Pacific: origins, diversity and conservation’ *Apidologie* Vol. 42, No. 6, pp.759-770 doi: 10.1007/s13592-011-0079-8

## BOOK CHAPTERS

- 2016 Taylor M, Lal P, Atumurirava F, Sukal A, Solifa D, Nonga N, **Groom SVC** and Starz C. ‘Chapter 3 Agriculture and climate change: an overview’ In: Taylor, M., McGregor, A., and B. Dawson B, (eds.) **Vulnerability of Pacific Agriculture and Forestry to Climate Change**. Noumea: Secretariat of the Pacific Community.

**EXTERNAL FUNDING**

<b>2017</b>	<b>UA-DAAD Joint Research Co-Operation Scheme</b> Species-specific susceptibility of native bees to honeybee RNA viruses <u>Groom SVC</u> , Fung E, Hogendoorn K, and Paxton R	<b>\$23 040</b>
<b>2014</b>	<b>JSPS Postdoctoral Fellowship (2y Salary)</b> Kyoto University, Japan	<b>\$115 500</b>
	<b>JSPS Grant-in-aid for Scientific Research (2y)</b> Evolution of sociality: A comparative transcriptomics approach <u>Groom SVC</u> , Kawakita A	<b>\$23 000</b>
	<b>The Australia and Pacific Science Foundation (3y)</b> Assessing impacts of two major new exotic pollinators in Fiji Schwarz MP, Stevens MI, <u>Groom SVC</u> , M Tuiwawa and P Skelton	<b>\$45 000</b>
<b>2012</b>	<b>Flinders University Postgraduate Travel Grant</b>	<b>\$1 400</b>
<b>2011</b>	<b>NSW-DPI Farrer Trust Travelling Scholarship</b>	<b>\$4 800</b>
	<b>Museum Victoria 1854 Student Travel Scholarship</b>	<b>\$1 000</b>
<b>2010</b>	<b>Endeavour Research Fellowship (6m Salary)</b> University of the South Pacific, Fiji	<b>\$23 500</b>
	<b>Rufford Small Grants Trust (2y)</b> Bees of Samoa: Identifying Threats and Developing Strategies <u>Groom SVC</u> , Schwarz MP, Stevens MI, Tuiwawa M and Skelton P	<b>\$10 000</b>
	<b>Nature Conservation Society Grant</b>	<b>\$1 000</b>
	<b>NCCARF Travel Grant</b>	<b>\$2 800</b>
	<b>The Australia and Pacific Science Foundation (3y)</b> Native bees in the South Pacific – conservation and roles in agriculture Schwarz MP, <u>Groom SVC</u> , Stevens MI, Taylor M, and Skelton P	<b>\$45 000</b>
	<b>Australian Postgraduate Award (3y Salary)</b> Flinders University, Adelaide	<b>\$70 500</b>
<b>2009</b>	<b>AusAid: Youth Ambassador for Development (1y Salary)</b> Kunming Institute of Zoology, China	<b>\$23 500</b>

**TEACHING****Mar 10 – Nov 14 Flinders University: Faculty of Science and Engineering**

Demonstrator and Tutor (~600h) in topics covering:

Undergraduate: Evolution of Biodiversity (BIOL1101); Molecular Basis of Life (BIOL1102); Biology and Society (BIOL1112); Data Analysis (STAT1412); Genetics, Diversity, and Evolution (BIOL2702); Applied Statistics (STAT2700); Statistics for Biology (BIOL2701); Research in Animal Behaviour (BIOL3721);

Masters: Statistical Methods for Science (STAT5702)

**SUPERVISION**

<b>Undergraduate</b>	<b>2012 Ms Olivia Davies</b> Bachelor of Science - High Achievers Program Collaboration resulted in publication in <i>Pacific Science</i>	<b>Flinders University, Adelaide</b>
	<b>2013 Ms Sarah Hayes</b> Bachelor of Science, Bachelor of Behavioural Science Collaboration resulted in publication in <i>Journal of Insect Conservation</i>	<b>Flinders University, Adelaide</b>

## CONFERENCE PRESENTATIONS

- 1 July 2018** **1<sup>st</sup> Australian Native Bee Conference, Gold Coast**  
*Oral* *Effect of native vegetation proximity on native bee diversity in lucerne*
- 27 Nov 2017** **Systematics 2017: Society of Australian Systematic Biologists, Adelaide**  
*Invited* *Origins of the Australian Bee Fauna*
- 5 Nov 2017** **65th Entomological Society of America Meeting, Denver, Colorado**  
*Invited* *Comparative transcriptomic analysis of a socially polymorphic bee provides insight into the origins of sociality*
- 12 Sept 2017** **Genomics and Collections: Adaptation to Macroevolution, Canberra**  
*Oral* *“Buzziness as usual” taxonomic capacity limits future research capability*
- 11 July 2016** **Palaeo Down Under 2 Meeting, Adelaide**  
*Poster* *A Paleocene fossil bee hair from NZ: ancient evidence of small-flower pollination?*
- 18 Mar 2015** **62nd Meeting of the Ecological Society of Japan, Kagoshima**  
*Poster* *Apidae in French Polynesia - Ecological nightmare or agricultural dream?*
- 29 Sept 2013** **44th Australian Entomological Society Meeting, Adelaide**  
*Oral* *Parallel responses in halictine bees in the south western Pacific: Implications for early ecosystems*  
 Symposium Organiser: Pollination
- 27 Oct 2013** **5th International Barcode of Life Conference, Kunming, China**  
*Invited* *Parallel responses of bees to climate change in three isolated archipelagos of the SW Pacific*  
*Poster* *Megachilidae of the Southwest Pacific: Impacts of a recent bee fauna on ecosystem stability*
- 8 Jul 2013** **12th Pacific Science Inter Congress, Suva, Fiji**  
*Oral* *Parallel responses in halictine bees in the SW Pacific: Implications for early ecosystems*
- 21 Jan 2013** **VII Southern Connections Congress, Dunedin, New Zealand**  
*Oral* *Diversification of halictine bees in the SW Pacific: insights into a recent radiation*  
*Poster* *Diversity and origins of Melanesian Leaf-cutter bees*
- 20 Aug 2012** **XXIV International Congress of Entomology, Daegu, Korea**  
*Poster* *Halictine bees of the southwest Pacific: Dispersals and rapid radiations*
- 30 Nov 2011** **4th International Barcode of Life Conference, Adelaide**  
*Oral* *Halictine bees of the southwest Pacific: Implications of a rapid radiation*
- 13 Nov 2011** **59th Entomological Society of America Meeting, Reno, Nevada**  
*Poster* *Bees of the southwest Pacific: Implications of a rapid radiation*

## SEMINARS

- 25 Sept 2015** **JSPS Science Dialogue: Kanonji Daiichi High School, Japan**  
*Invited* Presented my research to 29 students from a ‘Super Global’ school
- 28 Jan 2015** **JSPS Science Dialogue: Wakayama Prefectural High, Japan**  
*Invited* Presented my research to 85 students from a ‘Super Global’ school
- 3 Apr 2014** **College of Micronesia, Federated States of Micronesia**  
*Invited* Public forum presentation: Importance of pollinators in the Pacific
- 19 Jul 2013** **Samoa National Invasive Species Task Team Meeting, Apia, Samoa**  
*Invited* Brief Government committees on introduced pollinators
- 2 Feb 2011** **National Advisory Committee on Climate Change, Port Vila**  
*Invited* Potential impact of climate change on bees of Vanuatu

**PEER REVIEW**

**Journals** Austral Entomology; Australian Journal of Zoology; Biological Journal of the Linnean Society; Journal of Hymenoptera Research; Pacific Science  
**Reports** Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES) – Deliverable 3(a): Thematic assessment of pollinators, pollination and food production  
**Memberships** Entomological Society of America 2011 – 2015; Entomological Society of Japan 2016

**MEDIA**

**13 May 2017 ABC News Online**  
 “Komorebi” Produced by Emily McCallan – <http://www.abc.net.au/news/2017-05-13/smashed-wins-swag-of-awards-at-sa-screen-awards/8521474>  
**15 August 2016 RiAus Film**  
 “Komorebi” Produced by Emily McCallan – <https://youtu.be/MjzFxWEMD9Y>  
**15 July 2015 SA Government Online**  
<http://www.statedevelopment.sa.gov.au/science/science-excellence-awards-sa/finalists>  
**4 July 2015 InDaily Online**  
<http://indaily.com.au/news/2016/07/04/native-bees-abuzz-with-global-warming/>  
**7 May 2014 ABC News Online**  
<http://www.abc.net.au/news/2014-05-07/bees-key-climate-change-research-flinders-university/5435502>  
**7 May 2014 ABC News Online**  
<http://www.abc.net.au/news/2014-05-07/bees-key-climate-change-research-flinders-university/5435502>  
**8 May 2014 Radio Adelaide Radio**  
<https://radio.adelaide.edu.au/our-future-with-bees/>  
**9 May 2014 5AA Radio**  
[http://www.fiveaa.com.au/audio\\_how-bees-can-benefit-our-food-security\\_108532](http://www.fiveaa.com.au/audio_how-bees-can-benefit-our-food-security_108532)  
**23 May 2014 ABC Pacific Beat Radio**  
<http://www.radioaustralia.net.au/pacific/radio/program/pacific-beat/researchers-make-the-link-between-bees-and-climate/>

**PROFESSIONAL DEVELOPMENT**

<b>2015</b>	Japanese: Kyoto City International Foundation	Japan
<b>2014</b>	Workshop on Advanced Bayesian Phylogenetics	Adelaide
	ACAD Bioinformatics Workshop	Adelaide
<b>2013</b>	Bioinfosummer – Australian Mathematical Sciences Institute	Adelaide
	Bioinformatics 13: Advanced Bioinformatics Workshop	Adelaide
	Winter School in Mathematical and Computational Biology	Brisbane
<b>2011</b>	2nd National Postgraduate Training Workshop in Systematics	Adelaide
<b>2009</b>	Mandarin: Kunming College of Eastern Language and Culture	China
<b>2007</b>	FleetSA: Introductory 4WD	Adelaide

**REFEREES**

<b>Dr Katja Hogendoorn</b> Postdoctoral Supervisor Research Associate University of Adelaide +61 8 8313 6555 katja.hogendoorn@adelaide.edu.au	<b>Assoc. Prof. Michael Schwarz</b> PhD supervisor Senior Lecturer Flinders University +61 8 8201 3729 michael.schwarz@flinders.edu.au	<b>Assoc. Prof. Mark Stevens</b> PhD Adjunct supervisor Senior Research Scientist SA Museum +61 8 8207 7685 mark.stevens@samuseum.sa.gov.au
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