

Oliver Patrick Stuart, Ph.D.

Post-Doctoral Researcher

University College Cork

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EDUCATION

- 2019-2024 **Doctor of Philosophy**, Australian National University.
Thesis: *“Genetic and phenotypic evolution in the critically endangered Dryococelus australis (Montrouzier, 1855) in captivity.”*
Supervisors: Alexander (Sasha) Mikheyev (Australian National University), Michael Magrath (Zoos Victoria, University of Melbourne).
- 2017-2018 **Master of Science**, University of Melbourne.
Thesis: *“Behaviour and identity of earwigs (Dermaptera) in southern Australian grain landscapes.”*
Supervisors: Matthew Binns (CSIRO), Paul Umina (cesar, University of Melbourne), Ary Hoffmann (University of Melbourne).
- 2012-2016 **Bachelor of Arts/Science**, Monash University.
Majors: French language and culture, ecology and conservation biology.

PROFESSIONAL EXPERIENCE

- 2024- **Post-Doctoral Researcher**, University College Cork.
- 2023-2024 **Data Analyst**, Evolutionary Genomics Lab, Australian National University.
- 2023-2024 **Laboratory Officer**, Diversity Arrays Technology.
- 2017-2019 **Research Assistant**, cesar Pty. Ltd.
- 2017-2018 **Research Assistant**, Pest, Environment, and Adaptation Research Group, University of Melbourne.
- 2014-2016 **Laboratory Assistant**, ChownLab, Monash University.
- 2015-2016 **Summer Research Intern**, Australian Cotton Research Institute, CSIRO.

GRANTS AND AWARDS

- 2023 **Student Travel Grant**, AU\$200, Australasian Evolution Society.
- 2022-2023 **Covid-19 PhD Extension Scholarship**, AU\$28,854 per annum for 0.5 years, Australian National University.
- 2022 **Runner Up Best Student Talk**, AU\$100, Australasian Evolution Society Conference.

- 2022 **Division of Ecology and Evolution Award for Service**, AU\$400, Australian National University.
- 2022 **Vice-Chancellor's Research Travel Grants**, AU\$1,500, Australian National University.
- 2019-2022 **Holsworth Wildlife Research Endowment**, AU\$12,945 total in three installments, Ecological Society of Australia.
- 2021 **College of Science Award for Service**, Australian National University.
- 2021 **Genetics Society of Australasia-Illumina Student Grant Scheme**, AU\$15'000, Genetics Society of Australasia.
- 2020 **Dovetail Genomics Tree of Life Award**, US\$20'000, Dovetail Genomics.
- 2019 **Student Travel Grant**, AU\$620, Australian Entomological Society.
- 2019 **First Runner-Up, Three-Minute Thesis Competition**, AU\$100, Research School of Biology, Australian National University.
- 2019-2023 **Australian Government Research Training Program Stipend Scholarship**, AU\$28,854 per annum for 3.5 years.
- 2019-2023 **Australian Government Research Training Program Fee-Offset Scholarship**, AU\$41'280 per annum for 4 years.
- 2015 **Dean's List Award**, Bachelor of Science, Monash University.

PUBLICATIONS

PEER REVIEWED

- Stuart, O.P.**, Cleave, R., Pearce, K., Magrath, M.J.L., Mikheyev, A.S. (2025) Purging of deleterious mutations through an extreme bottleneck. *Molecular Biology and Evolution*, 42(4), msaf079. <https://doi.org/10.1093/molbev/msaf079>
- Harrison, L.M., **Stuart, O.P.**, Jennions, M.D. (2025) Winner-loser effects on life history traits. *Journal of Evolutionary Biology*, 38(4), voaf021. <https://doi.org/10.1093/jeb/voaf021>
- Stuart, O.P.**, Cleave, R., Pearce, K., Magrath, M.J.L., Mikheyev, A.S. (2024) Gene flow stimulates recovery of reproductive fitness in a captive bred insect. *Insect Conservation and Diversity*. <https://doi.org/10.1111/icad.12790>
- Stuart, O.P.**, Cleave, R., Magrath, M.J.L., Mikheyev, A.S. (2023) Genome of the Lord Howe Island stick insect reveals a highly conserved phasid X chromosome. *Genome Biology and Evolution*, 15(6), evad104. <https://doi.org/10.1093/gbe/evad104>
- Kirkland, L.S., Maino, J., **Stuart, O.**, Umina, P.A. (2020) Ontogeny in the European earwig (*Forficula auricularia*) and grains crops interact to exacerbate feeding damage risk. *Journal of Applied Entomology*, 144(7), 605-615. <https://doi.org/10.1111/jen.12767>
- Stuart, O.P.**, Binns, M., Umina, P.A., Holloway, J., Severtson, D., Nash, M., Heddle, T., van Helden, M., Hoffmann A.A. (2019) Morphological and molecular analysis of Australian earwigs (Dermaptera) points to unique species and regional

endemism in the Anisolabididae family. *Insects*, 10(3), 72.
<https://doi.org/10.3390/insects10030072>

PRESENTATIONS

- 2022 *****Invited seminar***: Centre for Biodiversity Analysis SLiM Workshop**, *"Modeling complex mating systems and demography in SLiM."*
- 2022 **Genetics Society of Australasia, Australasian Evolution Society**, *"The impact of recent demographic history on the mutation spectrum of Dryococelus australis."*
- 2021 **Genetics Society of Australasia, Australasian Evolution Society, Australian Entomological Society**, *"Genome structure and inheritance in Australia's most endangered insect, Dryococelus australis."*
- 2019 **Australian Entomological Society, Australasian Evolution Society**, *"Glacier genetics: placement of the Rocky Mountain locust, Melanoplus spretus, using glacier-preserved specimens."*
- 2019 **Victorian Biodiversity Conference**, *"Diversity of Australian Anisolabididae: Testing morphological taxonomy with genetic techniques."*
- 2018 **Australian Entomological Society**, *"Diversity of earwigs (Dermaptera) in Australian grain landscapes."*
- 2018 **Victorian Biodiversity Conference**, *"Cryptic diversity in Australian invertebrates."*

POSTERS

- 2023 **International Congress of Genetics**, *"Reconstructing pedigrees with mixed reproductive mode in the critically endangered Lord Howe Island stick insect (Dryococelus australis)".*

TEACHING

- 2025 **Guest Lecturer**, BL3008 Evolution 2—Diversity and Extinction, University College Cork.
- 2023 **Tutor**, BIOL6200 Quantitative Biology, Australian National University.
- 2021 **Lab Demonstrator**, Theoretical and Applied Genetics, Shandong University.
- 2020 **Lab Demonstrator**, BIOL2151 Genetics, Australian National University.
- 2019-2023 **Head Field and Lab Demonstrator**, BIOL2131 Ecology, Australian National University.
- 2019 **Lab Demonstrator**, BIOL2022 Experimental Design and Analysis in Biology, Australian National University.
- 2018 **Lab Demonstrator**, BIOL10004 Biology of Cells and Organisms, University of Melbourne.

MENTORING

2024-2025 Caitlin Murray, William Chrisman, fourth-year Bachelor of Genetics project students.

PARTICIPATION: WORKSHOPS

2022 **Workshop on Population and Speciation Genomics**, Český Krumlov, Czechia.
2019 **Workshop on Ecological and Evolutionary Genomics**, Katoomba, Australia.

PARTICIPATION: WORKING/SYNTHESIS GROUPS

2025- Genetic Nature Observation and Action (GENOA), European Cooperation in Society and Technology (COST) Action.
2024- GeneFlow, European Maritime Fisheries and Aquaculture Fund (EMFAF), European Union.

PROFESSIONAL SERVICE

Ad hoc peer reviews for Scientific Data, Insects, Molecular Ecology.