

Oliver Patrick Stuart, Ph.D.

Post-Doctoral Researcher

University College Cork

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Links: [GoogleScholar](#) | [GitHub](#) | [ORCID](#)

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 APPOINTMENTS

- 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.

PUBLICATIONS

PEER REVIEWED

- Stuart, O.P.**, Cleave, R., Pearce, K., Magrath, M.J.L., Mikheyev, A.S. (2025) Gene flow stimulates recovery of reproductive fitness in a captive bred insect. *Insect Conservation and Diversity*, 18(5), 743-756. <https://doi.org/10.1111/icad.12790>

- 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., Magrath, M.J.L., Mikheyev, A.S. (2023) Genome of the Lord Howe Island stick insect reveals a highly conserved phasmid 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>

GRANTS AND AWARDS

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| 2025 | Staff Travel Bursary , €1,000, College of Science, Engineering and Food Science, University College Cork. |
| 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.

INVITED SEMINARS

- 2025 **Marine Institute: Science Break**, "*The genetic impacts of a long-term insect captive breeding program.*" Newport, Ireland.
- 2022 **Centre for Biodiversity Analysis SLiM Workshop**, "*Modeling complex mating systems and demography in SLiM.*" Canberra, Australia.

CONFERENCE AND MEETING PRESENTATIONS

- 2025 **Congress of the European Society of Evolutionary Biology**, "*A natural experiment in brown trout *Salmo trutta* demonstrates the impact of demography on linked selection.*" Barcelona, Spain.
- 2025 **Working Group on Application of Genetics in Fisheries and Aquaculture**, "*Establishing a genetic baseline to assess gene flow from salmon farms into wild Atlantic salmon populations in Ireland.*" Copenhagen, Denmark..
- 2022 **Genetics Society of Australasia, Australasian Evolution Society**, "*The impact of recent demographic history on the mutation spectrum of *Dryococelus australis*.*" Canberra, Australia.
- 2021 **Genetics Society of Australasia, Australasian Evolution Society, Australian Entomological Society**, "*Genome structure and inheritance in Australia's most endangered insect, *Dryococelus australis*.*" Online.
- 2019 **Australian Entomological Society, Australasian Evolution Society**, "*Glacier genetics: placement of the Rocky Mountain locust, *Melanoplus spretus*, using glacier-preserved specimens.*" Brisbane, Australia.
- 2019 **Victorian Biodiversity Conference**, "*Diversity of Australian Anisolabididae: Testing morphological taxonomy with genetic techniques.*" Melbourne, Australia.
- 2018 **Australian Entomological Society**, "*Diversity of earwigs (*Dermaptera*) in Australian grain landscapes.*" Alice Springs, Australia.
- 2018 **Victorian Biodiversity Conference**, "*Cryptic diversity in Australian invertebrates.*" Melbourne, Australia.

POSTERS

- 2025 **Congress of the European Society of Evolutionary Biology**, "*Purging of highly deleterious mutations through an extreme bottleneck.*" Barcelona, Spain.

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

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 (delivered online from Australian National 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/SUPERVISION

2025 Josh Barron, Master of Bioinformatics and Computational Biology, University College Cork.

2025 Lyle Raphael Novella-Talusan, Master of Marine Biology, University College Cork.

2024-2025 Caitlin Murray, William Chrisman, Bachelor of Genetics fourth year project, University College Cork.

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- Working Group on Application of Genetics in Fisheries and Aquaculture (WGAGFA), International Council for the Exploration of the Seas.

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 Heredity, Scientific Data, Insects, Molecular Ecology, Molecular Ecology Resources, Journal of Fish Biology.