

# TIMOTHY STAPLES

timothy.staples@uqconnect.edu.au

+61 412 506 078

timothylstaples.net

Gehrmann Building (60), University of Queensland, St Lucia 4072, Queensland, Australia

I am a community and quantitative ecologist, with extensive experience in the formation, processing and analysis of large ecological datasets. My research focus is broad, but I am interested in informing how communities form, function and change over time using datasets with wide spatial or temporal replication.

## EXPERIENCE

|             |                          |   |
|-------------|--------------------------|---|
| 2018 -      | Post-doctoral fellowship | ARC Centre of Excellence for Coral Reef Studies & University of Queensland                  |
| 2014 - 2018 | PhD                      | <a href="#">Designing productive and diverse carbon forests</a><br>University of Queensland |
| 2013        | Honours                  | Potential mechanisms of coexistence in closely related forbs<br>University of Queensland    |
| 2010 - 2012 | Bachelor of Science      | Ecology Major<br>University of Queensland   |

## PUBLICATIONS

**Staples, T.L.**, Mayfield, M.M., England, J.R., Dwyer, J.M. (2019). Comparing the recovery of richness, structure and biomass in naturally regrowing and planted reforestation. *Restoration Ecology*. [10.1111/rec.13077](#)

» Generated research questions, collected and analysed data, created all figures, primary writer

Ola, A., **Staples, T.L.**, Robinson, N., Lovelock, C.E. (2019). Plasticity in the above- and below-ground development of mangrove seedlings in response to variation in soil bulk density. *Coasts and Estuaries*. In Press

» Contributed some data analysis and assistance with figure design

**Staples, T.L.**, Dwyer, J.M., England, J.R., Mayfield, M.M. (2019). Productivity does not correlate with species and functional diversity in Australian reforestation plantings across a wide climate gradient. *Global Ecology and Biogeography*. [10.1111/geb.12962](#)

» Altmetrics: 22.9 (90th percentile for same-age papers)

» Generated research questions, collected and analysed data, created all figures, primary writer

**Staples, T.L.**, Dwyer, J.M., Wainwright, C.E., Mayfield, M.M. (2019). Applied ecological research is on the rise but connectivity barriers persist between four major subfields. *Journal of Applied Ecology*. [10.1111/1365-2664.13373](#)

» Citations: 1 (Google Scholar) | Altmetrics: 25.5 (90th percentile for same-age papers)

» Generated research questions, collected and analysed data, created all figures, primary writer

Gomez Cabrera, M.dC., Young, J.M., Roff, G., **Staples, T.L.**, Ortiz, J.C., Cooper, A. (2019). Broadening the taxonomic scope of coral reef paleoecological studies using ancient DNA. *Molecular Ecology*. [10.1111/mec.15038](#)

» Citations: 2 (Google Scholar) | Altmetrics: 18.0 (89th percentile for same-age papers)

» Contributed some data analysis and figure creation

Wainwright, C.E., **Staples, T.L.**, Charles, L.S., Flanagan, T.C., Lai, H.R., Mayfield, M.M. (2018). Links between community ecology theory and ecological restoration are on the rise. *Journal of Applied Ecology*. [10.1111/1365-2664.12975](#)

» Citations: 16 (Google Scholar) | Altmetrics: 57.1 (95th percentile for same-age papers)

» Contributed review design, some data collection, data analysis and figure creation

**Staples, T.L., Dwyer, J.M., Loy, X., Mayfield, M.M. (2016).** Potential mechanisms of coexistence in closely related forbs. *Oikos*. [10.1111/oik.03180](https://doi.org/10.1111/oik.03180)

» Citations: 7 (Google Scholar) | Altmetrics: 13.6 (88th percentile for same-age papers)

» Generated research questions, collected and analysed data, created all figures, primary writer

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## GRANTS & AWARDS

|      |   |          |
|------|---|----------|
| 2017 | UQ Alumni Friends Golden Jubilee Award:<br>Libbie Wilson Bursary            | \$1,000  |
| 2016 | Best Student Conference Paper,<br>New Zealand Ecological Society conference | -        |
| 2016 | People's Choice, School of Biological Sciences<br>3 Minute Thesis           | -        |
| 2014 | UQ-CSIRO Integrated Natural Resource<br>Management PhD Program grant        | \$30,000 |

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## INVITED PRESENTATIONS & SYMPOSIA

|      |                                    |  |
|------|------------------------------------|--|
| 2018 | Ecological Society<br>of Australia | Symposium organiser & chair<br>Marine ecology: new developments & human impacts  |
| 2017 | Queensland<br>Herbarium            | <b>Staples T, Dwyer J, England J, Mayfield M</b><br>No diversity-productivity relationship in Australian<br>forest plantings |

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## CONFERENCE PRESENTATIONS

**Staples T & Pandolfi J (2018).** Community dynamics and species co-occurrence over 3,000 years of coral reef development. Ecological Society of Australia, Brisbane, QLD. Contributed oral presentation.

**Staples T, Dwyer J, England J, Mayfield M (2017).** Acacia and Eucalyptus growth in multi-species reforestation. Ecological Society of Australia, Hunter Valley, NSW. Contributed oral presentation.

**Staples T, Dwyer J, England J, Mayfield M (2017).** No diversity-productivity relationship in Australian forest plantings. Ecological Society of America, Portland, Oregon. Contributed oral presentation.

**Staples T, Dwyer J, England J, Mayfield M (2016).** No diversity-productivity relationship in Australian forest plantings. Ecological Society of Australia, Freemantle, WA. Contributed oral presentation.

**Staples T, Dwyer J, England J, Mayfield M (2016).** Carbon-diversity co-benefits in Australian forest plantings, New Zealand Ecological Society and Society for Ecological Restoration Australasia, Hamilton, NZ. Contributed oral presentation.

**Staples T, Dwyer J, England J, Mayfield M (2015).** No productivity gain from diverse forest plantings. Ecological Society of Australia, Adelaide, SA. Poster presentation.

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## REVIEW EXPERIENCE

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| Journal reviews | <i>Ecography</i> (2017); <i>Global Change Biology</i> (2018, 2019); <i>Global Ecology and Biogeography</i> (2018, 2019); <i>Journal of Applied Ecology</i> (2018); <i>Oecologica</i> (2019); <i>Plants</i> (2019); <i>Science</i> (2019: joint review) |
| Other reviews   | Judge for <i>Ecological Society of Australia</i> Wiley Fundamental Ecology Award (value of \$5,000: 2019)  |

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## SELECTED TEACHING & MENTORSHIP

Teaching assistant, School of Biological Sciences, University of Queensland

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|-------------|---|
| 2017        | Analysis and Communication of Biological Data<br>Statistical workshops (R), writing workshops and marking |
| 2017        | Macroecology and Biogeography<br>Statistical workshops (R) and marking                                    |
| 2015 - 2016 | Biostatistics & Experimental Design<br>Statistical workshops (R) and marking                              |
| 2015 - 2016 | Ecology<br>Practical workshops, group discussions and marking   |

Informal workshops, School of Biological Sciences, University of Queensland

|      |  |
|------|--|
| 2019 | Code transparency, formatting and version control  |
| 2017 | Designing and interpreting statistical models in R |
| 2017 | Introduction to R programming                      |
| 2016 | Advanced techniques for figure design in R         |

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## OTHER NOTABLE ACHIEVEMENTS

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|-------------|----------------------------|--|
| 2019        | University of Queensland   | Provided data analysis and figure design to the School of Biological Sciences' strategic plan document   |
| 2010 - 2011 | Australian Taxation Office | Formal recognition of achievement from Assistant Commissioner<br>Prepared data analysis reports for senior executive staff<br>Developed and maintained procedure documents for focused, collaborative team |

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## REFERENCES

**Professor John Pandolfi**  
j.pandolfi@uq.edu.au; +61 7 3365 3050  
Post-doctoral supervisor

**Professor Margaret Mayfield**  
m.mayfield@uq.edu.au; +61 7 3365 1685  
Doctoral thesis advisor

**Dr John Dwyer**  
j.dwyer2@uq.edu.au  
Doctoral thesis advisor

Gehrmann Building (60)  
University of Queensland  
St Lucia QLD 4072

Goddard Building (8)  
University of Queensland  
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