

# TIMOTHY STAPLES

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

## 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*. [10.1007/s12237-019-00660-9](#)

» 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: Libbie Wilson Bursary	\$1,000
2016	Best Student Conference Paper, New Zealand Ecological Society conference	-
2016	People's Choice, School of Biological Sciences 3 Minute Thesis	-
2014	UQ-CSIRO Integrated Natural Resource Management PhD Program grant	\$30,000

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## INVITED PRESENTATIONS & SYMPOSIA

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

Journal reviews	<i>Ecography</i> (2017); <i>Global Change Biology</i> (2018, 2019); <i>Global Ecology and Biogeography</i> (2018, 2019 x 2); <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

2017	Analysis and Communication of Biological Data Statistical workshops (R), writing workshops and marking
2017	Macroecology and Biogeography Statistical workshops (R) and marking
2015 - 2016	Biostatistics & Experimental Design Statistical workshops (R) and marking
2015 - 2016	Ecology 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

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 Prepared data analysis reports for senior executive staff Developed and maintained procedure documents for focused, collaborative team

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## REFERENCES

**Professor John Pandolfi**  
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Post-doctoral supervisor

**Professor Margaret Mayfield**  
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Doctoral thesis advisor

**Dr John Dwyer**  
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