



Publications: some summary statistics

I have (co-)authored 24 peer-reviewed publications, for which ISI Web of Science reports the following, last updated August 31, 2009:

- Papers in journals currently ranked in the top 10% for their field: 9.
- Total number of citations: 506, plus over 120 software citations.
- Most highly cited article: [16], 128 citations.
- *h*-index: 10 (*i.e.* 10 papers have been cited at least 10 times).

Publications: full listing

- [24] Moles A.T., Warton D.I., Warman L., Swenson N.G., Laffan S.W., Zanne A.E., Pitman A., Hemmings F.A. & Leishman M.R. (2009). [Global patterns in plant height](#). *Journal of Ecology* **97**(5), 923–932.
- [23] Warton D.I. (2008). [Which Wald statistic? Choosing a parameterisation of the Wald statistic to maximise power in *k*-sample generalised estimating equations](#). *Journal of Statistical Planning and Inference*, **138**(10), 3269–3282.
- [22] Warton D.I. (2008). [Raw data graphing: an informative but under-utilized tool for the analysis of multivariate abundances](#). *Austral Ecology* **33**(3), 290–300.
- [21] Warton D.I. (2008). [Penalized normal likelihood and ridge regularization of correlation and covariance matrices](#). *Journal of the American Statistical Association* **103**, 340–349.
- [20] Forster M.A. & Warton D.I. (2007). [A metacommunity-scale comparison of species-abundance distribution models for plant communities of eastern Australia](#). *Ecography* **30**(4), 449–458.
- [19] Lusk C.H. & Warton D.I. (2007). [Global meta-analysis shows that relationships of leaf mass per area with species shade tolerance depend on leaf habit and ontogeny](#). *New Phytologist* **176**(4), 764–774.
- [18] Warton D.I. (2007). [How many words do you know? An integrated assessment task for introductory statistics students](#). *Journal of Statistics Education* **15**(3).

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- [17] Warton D.I. (2007). [Robustness to failure of assumptions of tests for a common slope amongst several allometric lines – a simulation study](#). *Biometrical Journal* **49**(2), 286–299.
- [16] Warton D.I., Wright I.J., Falster D.S. & Westoby M. (2006). [Bivariate line-fitting methods for allometry](#). *Biological Reviews* **81**(2), 259–291.
- [15] Weisbecker V. & Warton D.I. (2006). [Evidence at hand: Diversity, functional implications, and locomotor prediction in intrinsic hand proportions of diprotodontian marsupials](#). *Journal of Morphology* **267**(12), 1469–1485.
- [14] Ramp D., Caldwell J., Edwards K.A., Warton D. & Croft D.B. (2005). [Modelling of wildlife fatality hotspots along the Snowy Mountain Highway in New South Wales, Australia](#). *Biological Conservation* **126**(4), 474–490.
- [13] Warton D.I. (2005). [Many zeros does not mean zero inflation: comparing the goodness-of-fit of parametric models to multivariate abundance data](#). *Environmetrics* **16**(3), 275–289.
- [12] Wright I.J., Reich P.B., Cornelissen J.H.C., Falster D.S., Garnier E., Hikosaka K., Lamont B.B., Lee W., Oleksyn J., Osada N., Poorter H., Villar R., Warton D.I. & Westoby M. (2005). [Assessing the generality of global leaf trait relationships](#). *New Phytologist* **166**(2), 485–496.
- [11] Wright I.J., Reich P.B., Cornelissen J.H.C., Falster D.S., Groom P.K., Hikosaka K., Lee W., Lusk C.H., Niinemets U., Oleksyn J., Osada N., Poorter H., Warton D.I. & Westoby M. (2005). [Modulation of leaf economic traits and trait relationships by climate](#). *Global Ecology & Biogeography* **14**(5), 411–421.
- [10] Moles A.T., Warton D.I., Stevens R. & Westoby M. (2004). [Does a latitudinal gradient in seedling survival favour larger seeds in the tropics?](#) *Ecology Letters* **7**(10), 911–914.
- [9] Vesk P.A., Warton D.I. & Westoby M. (2004). [Sprouting by semi-arid plants: testing a dichotomy and predictive traits](#). *Oikos* **107**(1), 72–89.
- [8] Warton D.I. & Hudson H.M. (2004). [A MANOVA statistic is just as powerful as distance-based statistics, for multivariate abundances](#). *Ecology* **85**(3), 858–874.
- [7] Moles A.T., Warton D.I. & Westoby M. (2003). [Do small-seeded species have higher survival through seed predation than large-seeded species?](#) *Ecology* **84**(12), 3148–3161.
- [6] Moles A.T., Warton D.I. & Westoby M. (2003). [Seed size and survival in the soil in arid Australia](#). *Austral Ecology* **28**(5), 575–585.
- [5] Warton D.I. & Wardle G.M. (2003). [Site-to-site variation in the demography of a fire-affected perennial, *Acacia suaveolens*, at Ku-ring-gai Chase National Park, New South Wales, Australia](#). *Austral Ecology* **28**(1), 38–47.

- [4] Warton D.I. & Hudson H.M. (2002). Hypothesis testing of multivariate abundance data. In: C. Gulati, Y. Lin, S. Mishra & J. Rayner (eds.), *Advances in Statistics, Combinatorics and Related Areas*, pp. 349–360. World Scientific, Singapore.
- [3] Warton D.I. & Weber N.C. (2002). [Common slope tests for errors-in-variables models](#). *Biometrical Journal* **44**(2), 161–174.
- [2] Westoby M., Warton D. & Reich P.B. (2000). [The time value of leaf area](#). *American Naturalist* **155**(5), 649–656.
- [1] Pattinson G.S., Warton D.I., Misman R. & McGee P.A. (1997). [The fungicides Terrazole and Terraclor and the nematicide Fenamiphos have little effect on root colonisation by *Glomus mosseae* and growth of cotton seedlings](#). *Mycorrhiza* **7**(3), 155–159.

Research grants

2009-2011 ARC Discovery Project \$282,000.

“Advances in statistical methods for analysing high dimensional count data”

2009-2011 ARC Discovery Project \$300,000. Joint with Nigel Andrew (UNE) and Heloise Gibb (La Trobe).

“Predicting the effect of climate change on community structure and function: an assessment using temperate grassland invertebrates”

2008 UNSW Goldstar Award \$30 000.

“Advances in statistical methods for analysing community abundance data in the environmental sciences”

2007-2009 ARC Linkage Project \$450 000. Joint with R.T. Kingsford, S.W. Laffan, J.A. Merson, R.A. Bradstock, R. Mulley, T.D. Auld and R.S. Chapple.

“Managing Ecosystem Change in the Greater Blue Mountains World Heritage Area”

2007 UNSW Goldstar Award \$40 000.

“Advances in statistical methods for analysing community abundance data in the environmental sciences”

Sydney Water Catchment Authority \$150 000, 2007-2008. Partner Investigator, joint with D. Leonte and S. Penev.

“Statistical Analysis of Water Quality Data”

2006 UNSW Early Career Researchers Award \$10 184.

“Advances in statistical methods for community and comparative ecology”

2005 UNSW Learning and Teaching Award \$7 500.

“Evaluating assessment strategies for student engagement in statistics service courses”

2005 UNSW Faculty Research Grant Program \$6 000+\$3 770.

“Advances in hypothesis testing for multivariate abundance data in ecology”

2004 UNSW Early Career Researcher Award \$3 450.

Start-up grant \$20000. UNSW, 2003.

Links to related resources:

[David Warton's webpage](#) / [EcoStats Research Group](#) / [Potential Student Projects](#) / [Stats Software](#)