

# Dr Daniel Falster – Curriculum Vitae

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**Contact & profiles** A: Evolution & Ecology Research Centre, and School of Biological, Earth and Environmental Sciences, University of New South Wales, NSW 2052, Australia

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**Summary of research outputs** **Articles:** 55 articles in leading international journals such as *Nature*, *PNAS*, *Nature Plants*, *Trends in Ecology & Evolution*, *Biological Reviews*, *New Phytologist*, *Methods in Ecology & Evolution*, *Journal of Ecology*, *American Naturalist*.

**Citations:** > 10200 total citations, > 1000 citations yr<sup>-1</sup>, 13 papers cited > 100 times each, H-index of 31 [Google Scholar].

**Datasets:** I have produced and made publicly available two global compilations: the Biomass and Allometry Database, and the Coral Traits Database, as well as other datasets.

**Software:** I have produced and made publicly available important software packages, including the statistical package SMATR (used in over 1250 publications) and the growth model, **plant**.

**Reproducible science:** I am making my publications entirely reproducible, enabling others to reproduce, adapt, apply and extend my results.

**Research highlights** **Global shift towards trait-based ecology:** My research has enabled global quantification and comparison of plant strategies by i) proposing four leading traits to capture global plant diversity, now quantified for many of the world's species (Westoby *et al* 2002, 2316 cites); ii) Developing methods enabled comparison of light capture among species (Falster *et al* 2003, 416 cites); iii) Quantifying a global trade-off in how conductive tissue in stems is arranged (Zanne *et al* 2010, 295 cites).

**Trait-based community assembly:** My work shows how tradeoffs in plant function mediate species coexistence and how we can predict trait mixtures from first principles (Falster *et al* 2017, 40 cites).

**Global rules of plant competition:** Using growth data from > 3 million trees in plots across the world, Kunstler *et al* 2016 (369 cites) shows how functional traits influence competitive interactions.

**The Biomass and Allometry Database:** Synthesises data collected in 176 different studies to create the world's largest, public database on individual plant allometry (Falster *et al* 2015, 76 cites).

**How traits influence plant growth:** My work explains why the effect of traits on growth changes with size, via models (Falster *et al* 2011, 2016, 2018, 132 cites) & meta-analysis (Gibert *et al* 2016, 52 cites).

**Why do large parents have large offspring?:** I showed how size-asymmetric competition among rival offspring explains this phenomena, unifying theory across taxa (Falster *et al* 2008, 76 cites).

**Education** PhD (Ecology) Macquarie University (2010), “*Towards a general theory of plant trait diversity*” (Supervisor: M Westoby)  
MSc (Hons. I) Macquarie University (2003), “*Plant height strategies*” (Supervisor: M Westoby)  
BSc (Ecology) University of New South Wales (2000)

**Positions** 2017-2022 ARC Future Fellow (Level C, 0.8 FTE) – University of New South Wales Sydney  
2011-2014 Post-doctoral visiting scientist (hosted by Dr Joe Wright, 4 yr 0.1 FTE) – Smithsonian Tropical Research Institute (Panama)  
2016 Research Fellow (Level C, 1 yr) – Macquarie University  
2011-2015 ARC Australian Post-doctoral Fellow (Level B, 3.5 yr) – Macquarie University  
2010-2011 ARC Laureate Post-doctoral Fellow (Level A, 1 yr) – Macquarie University  
2006-2009 IT & web support for ARC-NZ Research Network for Vegetation Function (2.5 yr, 0.1 FTE) – Macquarie University  
2006-2009 Summer Scholar (0.5 FTE) – International Institute for Applied Systems Analysis

- 2004-2005 Research Assistant with Prof. Jarle Breivik (1.3yr 0.5 FTE) – Medical Faculty, University of Oslo (Norway)
- 2004-2005 Research Assistant with Prof. Nils Chr. Stenseth (1yr 0.5 FTE) – Centre for Ecological and Evolutionary Synthesis, University of Oslo (Norway)
- 2000-2002 Research Assistant with Prof. M Westoby (2 yr) – Macquarie University
- 2005 Research Assistant, ARC-NZ Research Network for Vegetation Function (6 mo) – Macquarie University
- 2004 Visiting Researcher with Prof. Göran Ågren (3 months) – Swedish Agricultural University, Sweden
- 2000 Summer student with Dr Brad Murray (3 months) – CSIRO Plant Industry

**Honours & awards (2006-)**

- 2019 **Fenner Medal** – Australian Academy of Sciences
- Research Impact Award** – UNSW Evolution & Ecology Research Centre
- 2015 **Next Generation Ecologist** – Ecological Society of Australia
- 2014 **Creativity and contributions to teaching award** – Department of Biological Sciences, Macquarie University
- 2012 **Award for Programs that enhance learning** – Office of Learning and Teaching, Macquarie University
- 2011 **Early Career Researcher (Highly commended)** – Macquarie University
- 2009 **Outstanding student presentation** – Australasian Evolution Society conference (ANU)
- 2008 **Fresh Science Media Course (1 of 16 invited)** – Science in Public
- Outstanding presentation in evolutionary ecology at annual conference** – University of New South Wales Evolution & Ecology Research Centre
- 2006 **Aurelio Peccei Award for “outstanding achievement” during Summer Program** – International Institute of Applied Systems Analysis, Austria
- 2004 **Vice-Chancellor’s Commendation for MSc Thesis** – Macquarie University
- 2000 **Students in Free Enterprise UNSW team (National runners up)** – Enactus Australia

**Grants**

**Total funding as lead = AUD 1.98m, Total (domestic) funding = AUD 7.38m.**

- 2019 **Falster D**, Vesk PA “Escalating the arms race: understanding when and how trees get really tall” ARC Discovery Project **AUD 483,977**
- Falster D** “High Quality Research Papers Scheme” UNSW **AUD 1,000**
- Falster D** “AusTraits: a curated plant trait database for the Australian flora” Australian Research Data Commons Discovery Activity program **AUD 49,999**
- Vesk P, **Falster D**, De Kauwe M, Gallagher R, Guillera-Arroita G “Eucalypt futures: using functional traits to predict species distributions and responses to environmental change” Eucalypt Australia Multiyear Project **AUD 450,000**
- Falster D**, Nakagawa S, Cornwell W, Navarro D, Richmond J, Warton D, Lyons M, Abramowitz G, Ukkola A, Kauwe M, Betbeder-Matibet L, Micheaux P, Laffan S “Building quality software packages in R” UNSW Research Infrastructure Grant **AUD 235,453**
- Falster D**, De Kauwe M “Boden Conference” Australian Academy of Sciences **AUD 10,000**
- 2018 Kingsford R, Finlayson C, Alexander L, Murray N, **Falster D** & 12 others “A global standard for the status of wetlands of international importance” ARC Linkage **AUD 779,000**
- 2017 Gallagher R, **Falster D** “Collaborative trait research and data: a round table discussion” National Climate Change Adaptation Research Facility **AUD 10,000**
- Abramowitz G, De Kauwe M, England M, Evans J, **Falster D**, Johnson F, Marshall L, Pitman A, Sharma A “Model evaluation web application” UNSW Research Infrastructure Grant **AUD 74,776**
- 2016 **Falster D** “Niche 2.0 - Australian and global plant diversity from first principles” ARC Future Fellow **AUD 802,332**
- 2013 Wright I, Medlyn B, Prentice C, Westoby M, Zeppel M, Leishman M, Atwell B, **Falster D** “Ecophysiological instrumentation to measure leaf, stem and whole-plant CO<sub>2</sub> and water use” Macquarie University Research Infrastructure **AUD 82,000**

- Durrant-Whyte H, Westoby M, **Falster D**, Müller R, Landgrebe T, Kane D, Smith P, Caetano T “Big data knowledge discovery: machine learning meets natural science” Science Industry Endowment Fund **AUD 4e+06**
- 2012 Brännström Å, **Falster D**, Franklin O, Holmgren J, Lindroos O, Nilsson U “Precision forestry for the future: enhanced forest management by optimized tree selection in thinning operations” Swedish formas **SEK 4,258,000**
- 2010 **Falster D** “Putting adaptation into vegetation models: towards a predictive theory of trait diversity and stand structure” ARC Discovery Project (Postdoctoral Fellowship) **AUD 310,000**
- 2009 **Falster D** “International travel grant (Vice-Chancellor’s commendation)” Macquarie University Postgraduate Research Fund **AUD 4,500**
- 2006 **Falster D** “Aurelio Peccei Travel Award” International Institute of Applied Systems Analysis (Austria) **EUR 7,000**  
**Falster D** Australian Postgraduate Award **AUD 70,000**
- 2002 **Falster D** “Research support grant” Macquarie University Postgraduate Research Fund **AUD 8,800**
- 1999 **Falster D** “Summer student research scholarship” Centre for Plant Biodiversity (CSIRO) **AUD 5,000**

## Teaching

### Undergraduate

Bees 4517 BEES Honours, University of New South Wales Sydney: 1 of 2 examiners for all students in cohort “*Thesis Examiner*”, 2020

Bios 3601 Advanced Field Biology, University of New South Wales Sydney: Wrote & delivered new field module (40hrs) “*Estimating forest biomass and carbon content*”, 2018-2020

Bees 3041 Big Data in BEES, University of New South Wales Sydney: Wrote & delivered new module for new course (40hrs) “*Big data in forest ecology*”, 2019-2020

Honours Professional Skills, University of New South Wales Sydney: Co-wrote & delivered (w Lee Rollins) new lecture “*How to build an academic CV*”, 2019 T1-T3; 2020 T1-T2

Bios 2051 Flowering Plants, University of New South Wales Sydney: Wrote & delivered new lecture & tutorial (2hrs) “*Life history strategies*”, 2019

Advanced Science Program, James Cook University: Wrote & delivered new lecture (1 hr) “*New knowledge (often) demands new methods*”, 2019

Biol 347: Plants and Ecosystems, Macquarie University: Wrote & delivered new lecture (1hr) “*Trait-based community assembly*”, 2015

Unit 301069 Research Stories, Western Sydney University: Wrote & delivered new lecture (1hr) “*From field plant ecology to computer modelling and big data*”, 2015

Biol 391: Biological Sciences Capstone, Macquarie Uni: Wrote & delivered 2hr lecture “*Biology in the age of data*”, 2014

### Short courses & skills workshops

BEES Coding and Statistics Course, University of New South Wales Sydney: Co-wrote & delivered (w W Cornwell) 2 day course for HDR students/staff “*Intermediate coding in R*”, 2020

BEES Coding and Statistics Course, University of New South Wales Sydney: Co-wrote & delivered (w W Cornwell, M Lyons) 2 day course for HDR students and staff “*Introduction to coding in R*”, 2018-2020

Annual conference, Ecological Society of Australia: Co-wrote & delivered (w S Windecker, J Yen, N Golding) 1 day course “*Taking your R skills to the next level: four great strategies for reproducible research*”, 2019

E&ERC Bag of Academic tricks, University of New South Wales Sydney: Co-wrote & delivered (w Lee Rollins) 1hr lecture “*How to build an academic CV*”, 2018

E&ERC Bag of Academic tricks, University of New South Wales Sydney: Wrote & delivered 1hr lecture “*Tips for improving quantitative skills*”, 2017

Software carpentry bootcamp, ResBaz, ResBaz/Software carpentry (University of Sydney): Co-wrote & delivered (w J Madin, D Noble, & 3 helpers) 2 day course “*Intermediate R*”, 2016

R users group, Macquarie University: Wrote & delivered new tutorial (1hr) “*Publication quality plots in R*”, 2016

Software carpentry bootcamp, University of NSW: Co-wrote & delivered (w R FitzJohn, D Barneche, 4 helpers) 2 day course “*Intermediate R*”, 2014

Software carpentry bootcamp, University of Technology Sydney: Co-wrote & delivered (w R FitzJohn, D Barneche, 4 helpers) 2 day course “*Intermediate R*”, 2014

Software carpentry bootcamp, Macquarie University: Participated as 1 of 4 helpers, assisting Greg Wilson 2 day course “*Introduction to Scientific Programming*”, 2013

Genes to GeoSciences outreach course, Macquarie University: Co-wrote & delivered (w R FitzJohn) 8 x 1.5 hr tutorials teaching programming skills “*Nice R code*”, 2013

Self study course, Umeå University Sweden: Wrote & delivered 8 reading topics designed for PhD student with background in mathematics “*Readings in plant ecology*”, 2013

Genes to GeoSciences outreach course, Macquarie University: Wrote & delivered 2 day course “*Modelling population dynamics: using first year math to model population growth rates, survival, and fitness*”, 2011

<b>Supervision</b>	Postdoc	Elizabeth Wenk, Macquarie University (2011-2015, 0.2 FTE), Supervisor : “ <i>Reproductive allocation in native plants.</i> ” Anaïs Gibert, Macquarie University (2014-2015), Co-supervisor : “ <i>Testing theory about plant growth.</i> ” James Camac, Macquarie University (2013-2015), Supervisor : “ <i>New methods for modelling mortality.</i> ” Rich FitzJohn, Macquarie University (2013-2015), Co-supervisor : “ <i>New software for simulation plant growth &amp; dynamics.</i> ”
	PhD	Charlie Hinchliffe, University of New South Wales Sydney (2017-present), joint supervisor : “ <i>Growth &amp; mortality of larval fish.</i> ” Dony Indiarso, University of New South Wales Sydney (2018-present), joint supervisor : “ <i>Effect of climate change on trait mixtures.</i> ” Scientia scheme Pietro Pollo, University of New South Wales Sydney (2019-present), secondary supervisor : “ <i>Understanding male mate choice.</i> ” Scientia scheme Emma Gray, Macquarie University (2014-2017), Co-supervisor : “ <i>Growth rates and functional traits of tropical rainforest and savanna species.</i> ” Magnus Lindh, Umeå University (Sweden) (2008-2012), International collaborator : “ <i>Evolution of Plants - a mathematical perspective.</i> ” Maud Combaut, IIASA (Austria) (2010), International collaborator : “ <i>Evolutionary and ecological impacts of disturbance regimes on vegetation structures.</i> ”
	MSc	Bo Liu, University of New South Wales Sydney (2020-present), Co-supervisor : “ <i>Fine-scale variation of growth rates of small pelagic larval fish in south-eastern Queensland, Australia.</i> ” Raffale Rani, Umeå University (Sweden) (2012-2014), Co-supervisor : “ <i>Plant growth &amp; architecture.</i> ”
	Honours	John Wilshire, Macquarie University (2019), Co-supervisor : “ <i>Tracking long-term changes in a floodplain vegetation community.</i> ” (1st class)
	Undergrad.	Ashleigh Ford, University of New South Wales Sydney (2019), Supervisor : “ <i>Summer research project: Tree rings in Australia.</i> ” Katrina Guo, University of New South Wales Sydney (2019 T2), Supervisor : “ <i>Talented students program.</i> ” Ramses Reyes, University of New South Wales Sydney (2019 T2), Supervisor : “ <i>Talented students program.</i> ”

Panel member Casey Gibson, University of New South Wales Sydney (2017-present), PhD  
 Nicholas Chu, University of New South Wales Sydney (2018-present), MSc  
 Gabe O'Reilly, University of New South Wales Sydney (2018-present), PhD  
 Alex Aloy, University of New South Wales Sydney (2018), PhD  
 Manon Sabot, University of New South Wales Sydney (2018-present), PhD  
 Zoe Xircostas, University of New South Wales Sydney (2019-present), PhD  
 Giancarlo Chiarenza, University of New South Wales Sydney (2019-present), PhD  
 Manon Sabot, University of New South Wales Sydney (2018-present), PhD  
 Louis Dardare, University of New South Wales Sydney (2010), Honours

Research assistant Elizabeth Wenk, University of New South Wales Sydney (2017-present, 0.2 FTE), supervisor : *"Assembling the AusTraits database."*  
 Simon Gorta, University of New South Wales Sydney (2020, 1mo), supervisor : *"History of vegetation in Myall Lakes region."*  
 Saras Windecker, University of New South Wales Sydney (2018, 1mo), supervisor : *"Reproducibility of past research."*  
 Caitlin Baxter, University of New South Wales Sydney (2019, 6mo), supervisor : *"Assembling the AusTraits database."*  
 Diego Barneche, Macquarie University (2013-2014, 0.2 FTE), Supervisor : *"Assembling the Biomass & Allometry Database."*  
 Angelica Vårhammer, Macquarie University (2013-2014, 0.2 FTE), Supervisor : *"Assembling the Biomass & Allometry Database."*

**Institutional Service**

Deputy Director (Graduate Program) of Evolution & Ecology Research Centre, UNSW Sydney, 2019-present

Co-wrote documents for review & renewal of the Evolution & Ecology Research Centre, UNSW Sydney, 2020

Contributed material on carbon farming for Fowlers Gap Project Group Final Report "Options for future management of Fowlers Gap Research Station", UNSW Sydney, 2020

Compiled publication data for review of research centres in School of Biological, Earth & Environmental Sciences, UNSW Sydney, 2020

Member Postgraduate Committee, School of Biological Earth & Environmental Sciences, UNSW Sydney, 2019-present

Compiled the Annual Research Collection for School of Biological, Earth & Environmental Sciences (over 700 publications), UNSW Sydney, 2020

Recruitment panel for postdoc position (w M Tanaka), UNSW Sydney, 2019

Compiled the Annual Research Collection for School of Biological, Earth & Environmental Sciences (over 600 publications), UNSW Sydney, 2019

Coordinator of Evolution & Ecology Seminar series; 30 talks over two years; achieved goal of 50:50 gender balance, UNSW Sydney, 2017-2018

Host for visiting seminar speakers, Prof David Christian; Dr Adam Roff; Dr Remko Duursma; Dr Jerome Chave, (Macquarie University), 2015

Contributed to review of post-doctoral experiences within the Department of Biological Sciences, Macquarie University, 2014

Organised Q&A panel session on 'How to land a faculty job' for ECRs with 5 academics & ~30 students, Macquarie University, 2014

Jointly developed new welcome protocol for new ECRs, Macquarie University, 2015

Joint founder and member post-doctoral researcher committee, Macquarie University, 2014-2015

Member Biological Sciences Quantitative Advice Committee, Macquarie University, 2011-2016

Chair of Genes-to-Geosciences-Fund committee, Macquarie University, 2012-present

**Professional Service & Memberships** Peer Reviewer for journals: Am Nat, AoB Plants, Aust J Ecol, Beh Ecol, Ecology, Ecology Letters, Evolution, Forests, Fun Ecol, Global Ecol Bio, J Ecol, J Plant Phys, J Theor Biol, Journal of Biogeography, New Phyt, Oec, Oikos, Perspectives in Plant Ecology, Evolution and Systematics, PLOS One, Proceedings B, TREE, & Zoo Sci, ongoing

Grant Reviewer for: ARC, NSF, NERC, Czech, sDiv, ongoing

Society member: Ecological Society Australia, Software Carpentry, Open Traits Network, ongoing

Member of Conference Working Group: oversee running of annual conference for Ecological Society of Australia, 2017-present

Joint founder of global network: Open Traits Network (<http://opentraits.org/>), 2018-present

Joint founder of new research chapter in Ecological Society of Australia: Quantitative Ecology Research Chapter (<https://esa-qerc.github.io/>), 2018-present

Opponent for PhD defence of Dr Karin Olsson: Danish Technical University (Copenhagen), 2015

Leader of the data-sharing platform: AusTraits (<http://traitecoevo.github.io/austraits.build/>), 2016-present

Member of management committee for the data-sharing platform: coraltraits.org, 2014-2016

Founder and leader of data-sharing platform: Biomass and Allometry Database, 2012-2016

Joint founder of new research chapter in Ecological Society of Australia: Theory of Australian Ecosystems, 2016-present

**Professional Development**

2019 Australian Academy of Science annual meeting (3 days), Canberra ACT

2009 Australasian Evolution Society conference (2 days), UNSW Sydney  
 Ecological Society of Australia conference (2 days), Launceston TAS  
 Working with Google Earth Engine, 2 hr course, UNSW Sydney  
 Sexual Misconduct Awareness, online course at UNSW Sydney

2018 Engaging with policy makers: How to get your research noticed, UNSW Sydney panel discussion  
 Research Integrity, online course at UNSW Sydney  
 Working with Industry, 1 day course at UNSW Sydney  
 ACEMS Intractable Likelihoods, 2 day course at UQ Brisbane  
 Essentials of Supervision, 2 day course at UNSW Sydney  
 Research Integrity, online course at UNSW Sydney  
 Ecological Society of Australia conference (4 days), Brisbane QLD

2017 Data Carpentry Instructor training, online course from "The Carpentries"  
 Macquarie University Genes to Geosciences Outlook conference (2 days), Sydney NSW  
 Ecological Society of Australia conference (4 days), Pokolbin NSW

2016 Ecological Society of Australia conference (4 days), Perth WA  
 UseR conference (4 days), Stanford USA  
 Sydney Bioinformatics Research Symposium, University of Sydney

2015 Nature master-class: writing for the Nature family of journals (1 day course), Garvan Institute  
 Ecological Society of Australia conference (4 days), Adelaide SA  
 Ecostats: Technological advances between Ecology & Statistics conference, UNSW Sydney  
 EUMacro conference, University of Copenhagen  
 Knowledge Discovery Data Mining conference (2 days), Sydney NSW  
 The Royal Society of NSW & Four Academies forum "The future of work" (1 day), Government House Sydney

2013 HDR supervision (1 day), Macquarie University  
 Software Carpentry instructors training course (5 day course), Software Carpentry Foundation  
 Intecol conference (4 days), London UK

2012 Ecological Society of Australia conference (4 days), Melbourne VIC

2010 Responsible Service of Alcohol (1 day), Tafe NSW

- Research proposals” (Michael Gilling 1 day)’, Macquarie University  
 Global carbon cycling” (Colin Prentic 1 day)’, Macquarie University  
 Writing for journals & citation metrics” (M Gillings, 1 day)’, Macquarie University  
 Transition from PhD to research career (M Leishman, 1 day)’, Macquarie University  
 Australasian Evolution Society conference (3 days), ANU Canberra  
 European Society for Evolutionary Biology conference (4 days), Turin Italy
- 2008 Constructing & working with models (H Kokko, 1 day)’, Macquarie University  
 Toughness, elasticity & breakage of biological materials (J Madin, 1 day)’, Macquarie University  
 Australian postgraduate course in current ecology & evolution (1 day), University of Sydney  
 Fresh Science: Media skills for scientists (1 wk), Melbourne  
 Ecological Society of Australia conference (4 days), University of Sydney
- 2007 Toastmasters Member (3 yr), Leichhardt  
 Evolution conference (American Society of Naturalists, Society for the Study of Evolution,  
 Society of Systematic Biologists, 4 days), Christchurch New Zealand
- 2005 Australian postgraduate course in current ecology & evolution (1 day), University of Queensland  
 Fragilome: Fragile sites & chromosomal instability conference (3 days), Heidelberg Germany  
 Ecological Society of Australia conference (4 days), University of Queensland
- 2002 St Johns Remote First Aid,  
 2nd year course: Algorithms & Data Structures (14 weeks, placed 3/500), Macquarie University  
 Australian postgraduate course in current ecology & evolution (1 day), James Cook University  
 Ecological Society of Australia conference (4 days), James Cook University
- 2001 Australian postgraduate course in current ecology & evolution (1 day), University of Wollongong  
 Ecological Society of Australia conference (4 days), University of Wollongong
- 2000 Ecological Society of Australia (4 days), La Trobe University VIC

### **Presentations Department Seminars**

- 2018 University of Canberra (Australia)  
 University of Wollongong (Australia)  
 University of New South Wales Sydney (Australia)
- 2017 Monash University (Australia)  
 Western Sydney University (Australia)
- 2016 University of Queensland (Australia)  
 Princeton University (USA)  
 Smithsonian Tropical Research Institute (Panama)
- 2015 IRSTEA Grenoble (France)  
 CNRS Montpellier (France)  
 University of Sydney (Australia)  
 Macquarie University (Australia)
- 2012 CTFS Science talk (Smithsonian Tropical Research Institute, Panama)  
 EERC Seminar Series (University of New South Wales)
- 2006 University of Wageningen (Netherlands)

### **Invited plenaries**

- 2015 Falster D. *Towards a theory of plant trait diversity*. Ecological Society of Australia (Adelaide)  
 Falster D. *Modelling strategic behaviour during combat (in plants)*. Eco-Stats: technological  
 advances between ecology & statistics (Sydney)
- 2013 Falster D. *Trait-based approaches in plant ecology: towards a theory of form & function*. Trait-  
 based approaches to Ocean Life (Copenhagen)
- 2010 Westoby M & Falster D. *Species traits, niches, & community assembly*. Gordon Conference on  
 Metabolic Scaling (Uni New England, USA)

### First-Authored talks

- 2018 Falster D. *Predicting vegetation diversity & structure from ecological & evolutionary first principles*. Society for Mathematical Biology (Sydney)  
Falster D. *New theory on how functional traits influence plant growth & shade tolerance across the life cycle*. Ecological Society of Australia (Brisbane)
- 2017 Falster D. *5 recommended techniques for modelling tree mortality*. Ecological Society of Australia (Pokolbin)  
Falster D. *From Lotka-Volterra to Trait databases: a daring organisation of theories about ecological strategy*. Ecological Society of Australia (Pokolbin)  
Falster D. *Why competition matters*. Genes to Geosciences Outlook (Sydney)
- 2016 Falster D. *The plant package for R*. Demography beyond the population (virtual conference)  
Falster D. *The challenge of combining 176 x #otherpeoplesdata to create the Biomass And Allometry Database (BAAD)*. UseR (Stanford, USA)  
Falster D. *Reproducible research in R with remake*. Sydney Bioinformatics Research Symposium  
Falster D. *Key trade-offs maintaining successional diversity*. Ecological Society of Australia (Perth)
- 2015 Falster D. *Data-driven ecology*. Knowledge Discovery & Data Mining (Sydney)  
Falster D. *Trait-based forest assembly generates neutral outcomes from niche processes*. EU-Macro (Copenhagen, Denmark)  
Falster D. *The challenge of combining 176 x #otherpeoplesdata to create the Biomass And Allometry Database (BAAD)*. Ecological Society of Australia (Adelaide)
- 2013 Falster D. *Growth trajectories: a new way of understanding the influence of traits on plant growth*. Intecol (London)
- 2012 Falster D. *Growth trajectories: a new way of understanding the influence of traits on plant growth*. Ecological Society of Australia (Melbourne)
- 2009 Falster D, Brännström Å, Westoby M & Dieckmann U. *Evolution of growth strategy in size-structured plant communities*. Australasian Evolution Society (Canberra)
- 2008 Falster D, Moles AT & Westoby M. *Big babies & small families make evolutionary sense - title implications for ecology?*. Ecological Society of Australia (Sydney)
- 2007 Falster D, Moles AT & Westoby M. *A general model for scaling of offspring size & adult size*. Evolution (Christchurch), New Zealand
- 2005 Falster D & Westoby M. *Coordination of height with other traits*. Ecological Society of Australia (Brisbane)
- 2001 Falster D & Westoby M. *Plant strategies for light capture: the influence of leaf angle & leaf size*. Ecological Society of Australia (Wollongong)
- 2000 Falster D & Westoby M. *Digitising leaf display to compare architectures*. Ecological Society of Australia (Melbourne)

### Workshops

- 2019 Falster D, Gallagher R, Madin J. *Open & reproducible workflows for combining lots of #other-peoplesdata*. Royal Botanic Gardens Traits workshop (Sydney)
- 2018 Falster D, Gallagher R, Madin J. *Some challenges of working with trait data*. Atlas Living Australia Traits Workshop (Canberra)  
Falster D. *Prospects for handling complex stand structures in CABLE*. CABLE Science Meeting (UNSW Sydney)
- 2014 Falster D. *Trait-based approaches in plant ecology – towards a theory of form & function*. Coral traits workshop (Sydney)
- 2011 Falster D. *A predictive theory of trait diversity*. Tempo & Mode of Plant Trait Evolution (NEScent / Macquarie University)  
Falster D. *Mind the gap: size-structure & competition in vegetation models*. Challenges in Modelling Vegetation Function & Dynamics (UWS)  
Falster D, Brännström Å, Westoby M & Dieckmann U. *Towards a general theory of plant trait diversity*. Next generation DGVMs, Macquarie University



- 2010 Falster D. *Towards a general theory of plant trait diversity*. Next generation DGVMs (Macquarie University)
- 2009 Falster D, Brännström Å, Westoby M & Dieckmann U. *Evolution of growth strategy in size-structured plant communities*. Sydney Ecophysiology Group  
Falster D. *Evolution of growth strategy in size-structured plant communities*. Approaches to modelling vegetation dynamics (University of Western Sydney)
- 2008 Falster D. *Plant heights as an example of mixture coexistence & the problem of the fast solver*. Towards an evolutionary ecology vegetation model (Macquarie University)

### Student talks

- 2019 Pollo P. *When should male mate choice evolve?*. Australasian Evolution Society (UNSW)  
Indiarto D, Falster D, Nakagawa S, Cornwell W. *Predicting range limits from functional traits: assessing generality of response across two continents*. Ecological Society of Australia (TAS)
- 2018 Hinchliffe C. *Using mortality & growth rate relationships of larval fish to assess the role of frontal eddies as off-shore nursery grounds*. 42nd Annual Larval Fish Conference (Canada)
- 2014 Gray E, Eller A, Lehmann C, Falster D and Wright I. *Assimilation & allocation: explaining variation in plant growth rates using functional traits*. Ecological Society of Australia (Alice Springs)
- 2013 Lindh M, Zhang L, Falster D, Franklin O, Westoby M & Brännström Å. *Plant diversity & drought*. 7th Inter. Conf. on Functional-Structural Plant Models (Saariselkä, Finland)  
Díaz M, Falster D & Madin J. *title is cover hiding? Understanding Sarcophyton spp. population dynamics after a cyclone disturbance*. ACRIS (Sydney)

### Symposia & Workshops

- 2019 (workshop) Invited speaker – *Australian Research Data Commons, Data Summit (Brisbane)*.  
(workshop) Invited participant – *Forest Diversity & dynamics (Macquarie University, Sydney)*.  
(workshop) Invited speaker – *Plant Traits Workshop (Royal Botanic Gardens, Sydney)*.
- 2018 (workshop) Invited speaker – *National traits workshop (Atlas of Living Australia, CSIRO)*.
- 2017 (workshop) Invited participant – *R open sci oz-unconference (Melbourne)*.  
(workshop) Co-organised with Gallagher – *Collaborative trait research and data: a round table discussion about trait data analysis and its value for climate change adaptation planning*.  
(conference symposium) Co-organised (with Yen, Golding, Windecker) – *Quantitative Ecology Symposia (3 conference sessions over 2 days within the Ecological Society of Australia conference)*.  
(conference symposium) Iniated and co-organised (with Yen, Golding, Windecker) – *Quantitative Ecology Showcase (mini-conference with 4 conference sessions over 2 days within the Ecological Society of Australia conference)*.  
(conference symposium) Co-organised with Medlyn – *Tree mortality (Ecological Society of Australia conference)*.
- 2016 (conference symposium) Co-organised with Gallagher, Mokany – *A diversity of approaches: key advances in trait-based theory and methods (Ecological Society of Australia conference)*.
- 2015 (conference symposium) Invited speaker & panel member – *Modern Ecology: Challenges and Opportunities (Ecological Society of Australia conference)*.  
(conference symposium) Invited speaker & panel member – *Data Driven Science (21st ACM SIGKDD conference on Knowledge Discovery & Data Mining)*.
- 2014 (workshop) Workshop facilitator – *Coral Traits Working Group (Macquarie University)*.
- 2013 (workshop) Invited keynote speaker – *Trait based approaches to Ocean Life (Danish Royal Academy of Sciences)*.  
(workshop) Co-organised with Georges Kunstler – *How are competitive interactions influenced by traits – a global analysis? (Macquarie University)*.
- 2011 (workshop) Invited speaker & participant – *Next generation DGVMs (Macquarie University)*.  
(workshop) Co-organised with Remko Duursma – *Challenges in modelling vegetation function and dynamics (University of Western Sydney)*.
- 2009 (workshop) Invited speaker & participant – *Approaches to modelling vegetation (University of Western Sydney)*.

- 2008 (workshop) Co-organised meeting with Mark Westoby – *Towards an evolutionary ecology vegetation model (Macquarie University)*.
- 2005 (workshop) Invited participant – *Vegetation schemes in earth system models (ARC-NZ Research Network for Vegetation Function)*.
- (workshop) Invited participant – *Third-generation models of carbon assimilation and water expenditure (ARC-NZ Research Network for Vegetation Function)*.
- (workshop) Invited participant – *Vascular design: comparison of theory strands (ARC-NZ Research Network for Vegetation Function)*.

## Media & Outreach

### Videos

2019-02-24, Forecasting forests, Australian Academy of Science,  
[https://www.youtube.com/watch?v=m5zeDqvwF\\_c](https://www.youtube.com/watch?v=m5zeDqvwF_c)

2011-10-05, The evolution of forest diversity, Macquarie University Youtube channel,  
<http://www.youtube.com/watch?v=wa8Yx7g44ws>

### Articles

2017-06-02, Why not both? Rainforest diversity stems from two seemingly irreconcilable processes, by Jacqueline Hernandez, Mongabay, <https://news.mongabay.com/2017/06/why-not-both-rainforest-diversity-stems-from-two-seemingly-irreconcilable-processes/>

2015-12-25, A place in the sun for trees (French), by Sophie Bécherel, France Inter,  
<http://www.franceinter.fr/depeche-une-place-au-soleil-pour-les-arbres>

2016-01-15, Landmark plant studies find new patterns of successful trait combinations and species competition, Future Earth Blog, <https://futureearth.org/2016/01/15/landmark-plant-studies-find-new-patterns-of-successful-trait-combinations-and-species-competition/>

2016-01-07, Trees employ similar strategies to outcompete their neighbors, Future Earth Blog,  
<http://www.futureearth.org/blog/2016-jan-15/landmark-plant-studies-find-new-patterns-successful-trait-combinations-and-species>

2016-03-01, TERN active in ESA's first symposium on open data in ecology, Terrestrial Ecosystem Research Network: Newsletter,  
<http://www.tern.org.au/Newsletter-2016-Mar-ESA-Data-Workshop-pg31395.html>

2008-07-11, Smaller families pose extinction risk, by D Osborne, ABC Science Online

2008-01-10, Small families and big babies make evolutionary sense, Radio interview with A Shirley, ABC Canberra

2008-07-10, Small families and big babies make evolutionary sense, Radio interview with Ingrid Just, ABC QLD

### Blog posts

FitzJohn RG, Falster DS (2016) Key technologies used to build the plant package (and maybe soon some other big simulation models in R). <https://methodsblog.wordpress.com/2016/02/23/plant/>.

Falster DS, FitzJohn RG, Duursma RA, Barneche DR (2016) The challenge of combining 176 x #otherpeoplesdata to create the Biomass And Allometry Database. <https://ropensci.org/blog/2015/06/03/baad/>.

Falster DS (2015) For full details of the model see elsewhere. <http://danielfalster.com/blog/2015/08/19/SuppMat/>.

Falster DS (2013) Why I want to write nice R code. <http://nicercode.github.io/blog/2013-04-05-why-nice-code/>.

Falster DS (2013) Reflections on the software carpentry teaching module. <http://swcarpentry.github.io/training-course/2013/06/reflections-on-the-software-carpentry-teaching-module/>.

Falster DS (2013) Making a case for a fully open trait database. <http://danielfalster.com/blog/2013/08/23/making-a-case-for-a-fully-open-trait-database/>.

Pearcy RW, Duursma RA, Falster DS (2011) Studying plant architecture with Y-plant and 3D digitising. <http://prometheuswiki.publish.csiro.au/tiki-index.php?page=Studying+plant+architecture+with+Y-plant+and+3D+digitising>.

- Open source datasets** Zajitschek S, Zajitschek F, Bonduriansky R, Brooks RC, Cornwell W, **Falster D**, Lagiz L, Mason J, Senior A, Noble D, Nakagawa S (2020) **Raw Data for: Sex and Power: Sexual Dimorphism in Trait Variability and Its Eco-Evolutionary and Statistical Implications.** *{Zenodo}*. doi: 10.5281/zenodo.3759701
- Falster D**, Gallagher R, Wenk EH, Baxter C, Allen S, Lawson J, Wright I (2019) **AusTraits: A Curated Plant Trait Database for the Australian Flora.** *Zenodo*. doi: 10.5281/zenodo.3583418
- Wenk EH, Abramowicz K, Westoby M, **Falster DS** (2018) **Data and code from: Investment in reproduction for 14 iteroparous perennials is large and associated with other life-history and functional traits.** *Zenodo*. doi: 10.5281/zenodo.1183416
- Heim RH, Wright IJ, Chang HC, Carnegie AJ, Pegg GS, Lancaster EK, **Falster DS**, Oldeland J (2018) **Detecting myrtle rust (*Austropuccinia psidii*) on lemon myrtle trees using spectral signatures and machine learning.** *Zenodo*. doi: 10.5281/zenodo.1142944
- Gibert A, Gray EF, Westoby M, Wright IJ, **Falster DS** (2016) **Data from: On the link between functional traits and growth rate: meta-analysis shows effects change with plant size, as predicted.** *Dryad Digital Repository*. doi: 10.5061/dryad.701q8
- Madin JS, Andreasen MH, Bridge T, Cairns X S, Connolly SR, Darling E, Diaz M, **Falster D**, Franklin EC, Gates RD, Hoogenboom MO, Huang D, Keith SA, Kosnik MA, Kuo C, Lovelock CE, Luiz O, Martinelli J, Mizerek T, Pandolfi JM and 5 others (2016) **Data from: The Coral Trait Database: a curated database of trait information for coral species from the global oceans.** *Figshare*. doi: 10.6084/m9.figshare.2067414
- Falster DS**, Duursma RA, Ishihara MI, Barneche DR, FitzJohn RG, Vårhammar A, Aiba M, Ando M, Anten N, Aspinwall MJ, Baltzer JL, Baraloto C, Battaglia M, Battles JJ, Bond-Lamberty B, van M, Breugel J, Camac Y, Claveau L, Coll M and 79 others (2015) **Data from: BAAD: a Biomass And Allometry Database for woody plants.** *Ecological Archives*: E096-128-D1. link: <http://www.esapubs.org/archive/ecol/E096/128/> R package: baad.data code: [github.com/dfalster/baad](https://github.com/dfalster/baad)
- Paul KI, Adams M, Applegate G, Attiwill P, Baker T, Barton C, Bastin G, Battaglia M, Bradford M, Bradstock R, Brand B, Brooksbank K, Cameron D, Carter J, England J, **Falster D**, Feller M, Forrester D, Green D, Groves T and 28 others (2015) **Australian individual tree biomass library, version 1.0.** *AEKOS*. doi: 10.4227/05/57354015127B8
- Zanne AE, Westoby M, **Falster DS**, Ackerly DD, Loarie SR, Arnold SE, Coomes DA (2010) **Data from: Angiosperm wood structure: Global patterns in vessel anatomy and their relation to wood density and potential conductivity.** *Dryad Digital Repository*. doi: 10.5061/dryad.1138
- Falster DS**, Moles AT, Westoby M (2008) **Code and data from: A general model for the scaling of offspring size and adult size.** *Figshare*. doi: 10.6084/m9.figshare.1094315
- Falster DS** (2005) **Data from: Alternative height strategies among 45 dicot rain forest species from tropical Queensland, Australia.** *Github*. link: [https://github.com/dfalster/Falster\\_2005\\_JEcol\\_data](https://github.com/dfalster/Falster_2005_JEcol_data)
- Falster DS** (2005) **Data from: Tradeoffs between height growth rate, stem persistence and maximum height among plant species in a post-fire succession.** *Github*. link: [https://github.com/dfalster/Falster\\_2005\\_Oikos\\_data](https://github.com/dfalster/Falster_2005_Oikos_data)
- Moles AT, **Falster DS**, Leishman M, Westoby M (2004) **Data from: Small-seeded plants produce more seeds per square metre of canopy per year, but not per individual per lifetime.** *Journal of Ecology Supplementary material*. link: <http://www.blackwellpublishing.com/products/journals/suppmat/JEC/JEC880/JEC880sm.htm>
- Falster DS**, Westoby M (2003) **Data from: Leaf size and angle vary widely across species: what consequences for light interception?.** *New Phytologist*: 158. doi: 10.1046/j.1469-8137.2003.00765.x
- Open source software** datastorr A workflow and package for delivering successive versions of 'evolving data' directly into R, <https://github.com/ropenscilabs/datastorr> – Co-developed with R FitzJohn, W Cornwell, M Pennell
- plant A package for modelling forest trait ecology and evolution, <https://github.com/traitecoevo/plant> – Project lead, co-developed with R FitzJohn, R Schouten, J Wilshire

drake	An R-focused pipeline toolkit for reproducibility and high-performance computing, <a href="https://github.com/ropensci/drake">https://github.com/ropensci/drake</a> – Assisted lead developer with early concepts
baad.data	Access to the Biomass And Allometry Database, <a href="https://github.com/traitecoevo/baad.data">https://github.com/traitecoevo/baad.data</a> – Co-developed with R FitzJohn
stateliner	An R interface to the stateline MCMC engine for R via docker, <a href="https://github.com/traitecoevo/stateliner">https://github.com/traitecoevo/stateliner</a> – Co-developed with R FitzJohn
rrqueue	Scalable distributed job queues with R and Redis, <a href="https://github.com/traitecoevo/rrqueue">https://github.com/traitecoevo/rrqueue</a> – Co-developed with R FitzJohn
experimentr	Control large computational experiments on multiprocessor machines or on HPC infrastructure, <a href="https://github.com/traitecoevo/experimentr">https://github.com/traitecoevo/experimentr</a> – Co-developed with R FitzJohn
smatr v3	Bivariate line-fitting methods for allometry (with David Warton, Remko Duursma), <a href="http://cran.r-project.org/web/packages/smatr/">http://cran.r-project.org/web/packages/smatr/</a> – Co-developed with Duursma, Warton (cited in over 750 publications)
smatr v2	Bivariate line-fitting methods for allometry, <a href="http://www.bio.mq.edu.au/ecology/">http://www.bio.mq.edu.au/ecology/</a> SMATR – Co-developed with Warton, Wright (cited in over 500 publications)

## Articles

### Preprints

Wenk EH, Abramowicz K, Westoby M, **Falster DS** (2017) **Coordinated shifts in allocation among reproductive tissues across 14 coexisting plant species.** *bioRxiv*: 141473. doi: 10.1101/141473 code: github Times cited: 1

McCarthy PX, RizoIU M, Eghbal S, **Falster DS** (2020) **Long-Term Trends of Diversity Online.** *arXiv:2003.07049 [cs]*.

### Published

Franklin O, Harrison SP, Dewar R, Farrior CE, Brännström , Dieckmann U, Pietsch S, **Falster D**, Cramer W, Loreau M, Wang H, Mäkelä A, Rebel KT, Meron E, Schymanski SJ, Rovenskaya E, Stocker BD, Zaehle S, Manzoni S, van M and 11 others (2020) **Organizing Principles for Vegetation Dynamics.** *Nature Plants*: 1-10. doi: 10.1038/s41477-020-0655-x

Gallagher RV, **Falster DS**, Maitner BS, Salguero-Gómez R, Vandvik V, Pearse WD, Schneider FD, Kattge J, Poelen JH, Madin JS, Ankenbrand MJ, Penone C, Feng X, Adams VM, Alroy J, Andrew SC, Balk MA, Bland LM, Boyle BL, Bravo-Avila CH and 37 others (2020) **Open Science principles for accelerating trait-based science across the Tree of Life.** *Nature Ecology & Evolution*. doi: 10.1038/s41559-020-1109-6 preprint: 10.32942/osf.io/kac45 Times cited: 8

Kattge J, and 727 others (2020) **TRY plant trait database – enhanced coverage and open access.** *Global Change Biology* 26: 119-188. doi: 10.1111/gcb.14904 Times cited: 25

**Falster DS**, FitzJohn RG, Pennell MW, Cornwell WK (2019) **Datastorr: A workflow and package for delivering successive versions of ‘evolving data’ directly into R.** *GigaScience* 8: giz035. doi: 10.1093/gigascience/giz035 preprint: 10.7287/peerj.preprints.3401v1 code: github Times cited: 1

Gray EF, Wright IJ, **Falster DS**, Eller ASD, Lehmann CE, Bradford MG, Cernusak LA (2019) **Leaf:wood allometry and functional traits together explain substantial growth rate variation in rainforest trees.** *AoB PLANTS* 11: plz024. doi: 10.1093/aobpla/plz024

Thurner M, Beer C, Crowther T, **Falster D**, Manzoni S, Prokushkin A, Schulze E (2019) **Sapwood biomass carbon in northern boreal and temperate forests.** *Global Ecology and Biogeography* 28: 640-660. doi: 10.1111/geb.12883 Times cited: 1

Camac JS, Condit R, FitzJohn RG, McCalman L, Steinberg D, Westoby M, Wright SJ, **Falster DS** (2018) **Partitioning mortality into growth-dependent and growth-independent hazards across 203 tropical tree species.** *Proceedings of the National Academy of Sciences* 115: 12459-12464. doi: 10.1073/pnas.1721040115 preprint: 10.1101/228361 code: github Times cited: 4

**Falster DS**, Duursma RA, FitzJohn RG (2018) **How functional traits influence plant growth and shade tolerance across the life-cycle.** *Proceedings of the National Academy of Sciences* 115: E6789-E6798. doi: 10.1073/pnas.1714044115 preprint: 10.1101/083451 code: github Times cited: 19

Wenk EH, Abramowicz K, Westoby M, **Falster DS** (2018) **Investment in reproduction for 14 iteroparous perennials is large and associated with other life-history and functional traits.** *Journal of Ecology* 106: 1338–1348. doi: 10.1111/1365-2745.12974 code: github Times cited: 1

- Lindh M, **Falster DS**, Zhang L, Dieckmann U, Brännström Å (2018) **Latitudinal effects on crown shape evolution**. *Ecology and Evolution* 8: 8149-8158. doi: 10.1002/ece3.4275 Times cited: 1
- Hellström L, Carlsson L, **Falster DS**, Westoby M, Brännström Å (2018) **Branch thinning and the large-scale, self-similar structure of trees**. *The American Naturalist* 192: E37-E47. doi: 10.1086/697429 Times cited: 1
- Rani R, Abramowicz K, **Falster DS**, Sterck F, Brännström Å (2018) **Effects of bud-flushing strategies on tree growth**. *Tree Physiology* 38: 1384-1393. doi: 10.1093/treephys/tpy005
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- Falster DS**, Brännström Å, Westoby M, Dieckmann U (2017) **Multitrait successional forest dynamics enable diverse competitive coexistence**. *Proceedings of the National Academy of Sciences USA* 114: E2719-E2728. doi: 10.1073/pnas.1610206114 preprint: 10.1101/014605 code: github Times cited: 40
- Duursma RA, **Falster DS** (2016) **Leaf mass per area, not total leaf area, drives differences in above-ground biomass distribution among woody plant functional types**. *New Phytologist* 212: 368-376. doi: 10.1111/nph.14033 preprint: 10.1101/025361 code: github Times cited: 18
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- Falster DS**, FitzJohn RG, Brännström Å, Dieckmann U, Westoby M (2016) **plant: A package for modelling forest trait ecology & evolution**. *Methods in Ecology and Evolution* 7: 136-146. doi: 10.1111/2041-210X.12525 R package: github.com/traitecoevo/plant code: github Times cited: 13
- Kunstler G, **Falster D**, Coomes DA, Hui F, Kooyman RM, Laughlin DC, Poorter L, Vanderwel M, Vieilledent G, Wright SJ, Aiba M, Baraloto C, Caspersen J, Cornelissen JHC, Gourlet-Fleury S, Hanewinkel M, Herault B, Kattge J, Kurokawa H, Onoda Y and 16 others (2016) **Plant functional traits have globally consistent effects on competition**. *Nature* 529: 204-207. doi: 10.1038/nature16476 Times cited: 369
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- Madin JS, Hoogenboom MO, Connolly SR, Darling ES, **Falster DS**, Huang D, Keith SA, Mizerek T, Pandolfi JM, Putnam HM, Baird AH (2016) **A trait-based approach to advance coral reef science**. *Trends in Ecology & Evolution* 31: 419-428. doi: 10.1016/j.tree.2016.02.012 Times cited: 82
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- Falster DS**, Duursma RA, Ishihara MI, Barneche DR, FitzJohn RG, Vårhammar A, Aiba M, Ando M, Anten N, Aspinwall MJ, Baltzer JL, Baraloto C, Battaglia M, Battles JJ, Bond-Lamberty B, van M, Breugel J, Camac Y, Claveau L, Coll M and 79 others (2015) **BAAD: a Biomass And Allometry Database for woody plants**. *Ecology* 96: 1445. doi: 10.1890/14-1889.1 data: Ecological Archives E096-128-D1 R package: baad.data code: github.com/dfalster/baad Times cited: 76
- Wenk EH, **Falster DS** (2015) **Quantifying and understanding reproductive allocation schedules in plants**. *Ecology and Evolution* 5: 5521-5538. doi: 10.1002/ece3.1802 preprint: 10.1101/008508 Times cited: 53
- Li G, Harrison SP, Prentice IC, **Falster DS** (2014) **Simulation of tree-ring widths with a model for primary production, carbon allocation, and growth**. *Biogeosciences* 11: 6711-6724. doi: 10.5194/bg-11-6711-2014 Times cited: 41

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- Westoby M, Cornwell WK, **Falster DS** (2012) **An evolutionary attractor model for sapwood cross section in relation to leaf area**. *Journal of Theoretical Biology* 303: 98-109. doi: 10.1016/j.jtbi.2012.03.008 code: 10.6084/m9.figshare.1005160 Times cited: 9
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- Wright IJ, **Falster DS**, Pickup M, Westoby M (2006) **Cross-species patterns in the coordination between leaf and stem traits, and their implications for plant hydraulics.** *Physiologia Plantarum* 127: 445-456. link: <http://dx.doi.org/10.1111/j.1399-3054.2006.00699.x> Times cited: 119
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