### Marco D. Visser

Postdoctoral researcher at Princeton University. Visiting address: 100 Eno Hall Princeton, NJ 08540, United States. mvisser@princeton.edu - marco.d.visser@gmail.com https://github.com/MarcoDVisser

#### Research experience

Postdoctoral researcher (Nov 2016 - Present) at Department of Ecology and Evolutionary Biology, Princeton University (USA).
PhD candidate (Apr 2011 - Sep 2016) at institute for Water and Wetland Research, Plant Ecology Group, Radboud University Nijmegen (The Netherlands).
Predoctoral Fellow (Apr 2010 - Apr 2011) at the Smithsonian Tropical Research Institute, Gamboa (Panama).
Junior researcher (Sept 2009 - Feb 2010) at the Department of Experimental Plant Ecology, Radboud University Nijmegen (The Netherlands).
Short-term Fellow (Oct 2008 - Feb 2009) at the Smithsonian Tropical Research Institute, Barro Colorado Island (Panama).
MSc. Thesis research (2008-2009) at the Smithsonian Tropical Research Institute, Barro Colorado Island, Panama.
MSc. Thesis research (2008-2009) at the unit Mathematical and Statistical Methods of Wageningen University.
B.A. Thesis research (2007) at the Forest Research Institute Malaysia, Pasoh Forest Reserve, Malaysia.
Internship (2005) at the Forest Research Institute Malaysia, Kepong, Malaysia.
Internship (2004) at the Mammal Research Institute, Polish Academy of Sciences, Bialowieza, Poland.
Volunteer (2003) at the Mammal Research Institute, Polish Academy of Sciences, Bialowieza, Poland.

#### Education

November, 2016	Radboud University Nijmegen, PhD (cum laude, highest distinction at RU).
September, 2009	Wageningen University and research centre, M.Sc. (cum laude, highest distinction at WU). Forestry and
	Nature Conservation, with a minor in Mathematics and Statistical Methods.
September, 2007	Larenstein University of Applied Sciences, B.A. Forestry and Nature Conservation, with specialization in
	Tropical Forestry

Publicatio	ns (inc. submitted/ in preparation)
2011	<ol> <li>M. D. Visser, E. Jongejans, M. van Breugel, P. A. Zuidema, Y. Chen, A. R. Kassim, H. de Kroon. 2011         Strict mast fruiting for a tropical dipterocarp tree: A demographic cost-benefit analysis of delayed reproduction and seed predation. Journal of Ecology. 99, 1033-1044.     </li> <li>M. D. Visser, S. Joseph Wright, Helene C. Muller-Landau, Gemma Rutten and Patrick A. Jansen. Tri-</li> </ol>
	trophic interactions affect density dependence of seed fate in a tropical forest palm. Ecology Letters. 1- 1093-1100.
2012	3. B. van Putten, M. D. Visser, P. A. Jansen and H. C. Muller-Landau. Distorted- distance models for directional dispersal: a general framework and its application to a wind-dispersed tropical forest trees. Methods in Ecology and Evolution. 2012.
	<ol> <li>B. T. Hirsch, M. D. Visser, R. Kays and P. A. Jansen. Quantifying seed dispersal kernels from truncat seed-tracking data. Methods in Ecology and Evolution.</li> </ol>
2013	5. M. D. Visser. aprof: Amdahl's profiler, directed optimization made easy. R package version 0.1 - 0.4.1. http://cran.r-project.org/web/packages/aprof/index.html. 2014
	<ol> <li>P. A. Jansen, M. D. Visser, S. J. Wright, G. Rutten, H. C. Muller-Landau. Negative density-dependence of seed dispersal and seedling recruitment in a Neotropical palm. Ecology Letters 17: 1111–1120.</li> </ol>
2015	<ol> <li>M. D. Visser, S. M. McMahon, C. Merow, P. M. Dixon, S. Record and E. Jongejans. Speeding Up Ecological and Evolutionary Computations in R; Essentials of High Performance Computing for Biologist PLoS Comput Biol 11(3): e1004140. doi:10.1371/journal.pcbi.1004140.</li> </ol>
2016	<ol> <li>M. D. Visser, M. Bruijning, S. J. Wright, H. C. Muller-Landau, E. Jongejans, L. S. Comita and H. de Kroon. Functional traits as predictors of vital rates across the life-cycle of tropical trees. Functional Ecology.</li> </ol>
2017	<ol> <li>M. Bruijning, M. D. Visser, H. C. Muller-Landau, S. J. Wright, L. S. Comita, S. P. Hubbell, H. de Kroon Jongejans. Surviving in a cosexual world: a cost-benefit analysis of dioecy in tropical trees. 189:297-31 American Naturalist</li> </ol>
	<ol> <li>M. Bruijning, Marco D. Visser, C. A. Hallmann, E. Jongejans. trackdem: Particle Tracking and Demography. R package version 0.1 - 0.4.2 https://cran.r-project.org/package=trackdem.</li> </ol>
	11. M. D. Visser, S. Joseph Wright, Helene C. Muller-Landau, Felke Jongejans, Liza S. Comita, Hans de Kroon and Stefan Schnitzer. Tree species vary widely in their tolerance for liana infestation: A case stu of differential host response to generalist parasites. Journal of Ecology.
	<ol> <li>E.J. Francis, H.C. Muller-Landau, S.J. Wright, M. D. Visser, Y. Iida, A.R. Kassim, C. Fletcher, and S.F Hubbell. Quantifying the role of wood density in explaining interspecific variation in growth of tropical trees. Global Ecology and Biogeography</li> </ol>
2018	13. Nadja Rüger, Liza S. Comita, Richard Condit, Drew Purves, Benjamin Rosenbaum, Marco D. Visse S. Joseph Wright, Christian Wirth. Beyond the fast-slow continuum: A novel trade-off structuring demographic dimensions of tropical trees. Ecology Letters 21 (7). 1075-1084.
	14. M. Bruijning, M. D. Visser, C. A. Hallmann, E. Jongejans. Automated particle tracking to obtain population counts and size distributions from videos in R. Methods in Ecology and Evolution 9 (4), 965- 973
	15. M. D. Visser, Helene C. Muller-Landau, Eelke Jongejans, Liza S. Comita, Hans de Kroon and S. Jos Wright. A host-parasite model explains variation in liana infestation among co-occurring tree species. Journal of Ecology 106 (6), 2435-2445
2019	16 H. C. Muller-Landau and M. D. Visser. How do lianas and vines influence competitive differences a niche differences among tree species? Concepts and a case study in a tropical forest. Journal of Ecolog
	17 H. De Deurwaerder, M. D. Visser, M. Detto, P. Boeckx, F. Meunier, H. Verbeeck. Diurnal variation is xylem water isotopic signature biases estimation depth of root-water uptake. bioRxiv 712554; doi: https://doi.org/10.1101/712554.
	18 M. J. E. Broekmana, H. de Kroona, M. D. Visser, E. Jongejansa, S. J. Wright, H. C. Muller-Landau. Si

18 M. J. E. Broekmana, H. de Kroona, M. D. Visser, E. Jongejansa, S. J. Wright, H. C. Muller-Landau. Signs of Stable Coexistence. Ecology Letters doi:10.1111/ele.13349.

19 M. Detto, M. D. Visser, S. J. Wright, S. Pacala. Is the perception of negative density dependence in ecological forest community distorted? Ecology Letters, In press.

20 M. D. Visser, S. Joseph Wright, S. Pacala. Why can we see lianas from space? In preparation for Remote sensing and the environment. \*\*21\*\* H. De Deurwaerder, \*\*M. D. Visser\*\*, M. Detto, P. Boeckx, F. Meunier, H. Verbeeck. Why do Lianas have shallow root system compared to

22 M. D. Visser, S. Joseph Wright, Helene C. Muller-Landau, Gemma Rutten, and Patrick A. Jansen. What determines population density? An evaluation of regulating and limiting factors for a Neotropical palm species. In preparation for Ecology Letters.
23 M. D. Visser, Helene C. Muller-Landau, Eelke Jongejans, Liza S. Comita, Hans de Kroon and S. Joseph Wright. The comparative demography of tropical trees. In prep for Ecology.
24 M D. Visser, A: C. W. Borst, H. C. Muller-Landau, S. J Wright, E. Jongejans, P. A. Jansen. How poaching impacts the regulation of plant abundances in species with complex life cycles. In prep for Ecology.

## About my research

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2016	Chisholm R. F1000Prime Recommendation of [Visser MD et al., PLoS Comput Biol 2015,
	11(3):e1004140]. In F1000Prime, 21 Jul 2016; DOI: 10.3410/f.725405210.793520972.
	F1000Prime.com/725405210#eval793520972
2015	Salguero-Gómez, R. Demography to infinity and beyond! Journal of Ecology blog.
	https://jecologyblog.wordpress.com/2015/04/09/demography-to-infinity-and-beyond/
	Wang I. F1000Prime Recommendation of [Visser MD et al., PLoS Comput Biol 2015, 11(3):e1004140]. In
	F1000Prime, 28 Jul 2015; DOI: 10.3410/f.725405210.793508140.
	F1000Prime.com/725405210#eval793508140
2011	Sugden AM (2011) Science Editors' choice. Ecology. The Enemy of My Enemy is my? Science 334:569.
	Sugden AM (2011) Science Editors' choice. Ecology. Why trees skip a year. Science 333:386
	Rees M (2011) Editor's Choice: Volume 99, Issue 4 (July). Journal of Ecology.
	King, B (2011), The enemy of my enemy is my friend. Smithsonian Tropical Research Institute News 1:2
	Ecological Society of America - young plant population ecologist of the month (October 2011).
	Featured work: M. D. Visser et al, 2011, Ecology Letters.
	Kouwen M (2011) Mastjaar overtreft jaarlijkse zaadzetting. Bionieuws 13:6.

Grants and awards		
2016	<ul> <li>Grant: Academy Ecology Fund. Royal Dutch Academy of Sciences (KNAW), Quantifying the effects of extreme years on tropical tree dynamics: capitalizing a rare El Niño occurrence (6k).</li> </ul>	
2011	<ul> <li>Grant: NWO-ALW, What maintains the diversity of tropical tree species? Unravelling the importance of niche and neutrality with a life cycle approach. Co-wrote with Hans de Kroon, Heiene Muller- Landau, Eelke Jongejans, S. J. Wright, P.A. Zuidema, P.A. Jansen and S. Tuiljapurkar ((20)K).</li> </ul>	
2009	<ul> <li>Award: WUF-KLV thesis prize for the best thesis in the life sciences from Wageningen University awarded for my MSc thesis: Density-dependent dispersal and seed predation in a Neotropical palm.</li> </ul>	
2008	<ul> <li>Grant: Smithsonian Tropical Research Institute, short term fellowship awarded for the study: Quantifying density-dependent responses of seed predators in the Neotropical palm Attalea butyracea. (5 St).</li> </ul>	

# International presentations

Session organizer at the Netherlands Annual Ecology Meeting, February 2019, Lunteren, The Netherlands. Governing dynamics of community assembly: from big data to best practices

Invited Speaker at the European Conference of Tropical Ecology, March 2017, Brussels, Belgium. Parasite-host interactions in tropical trees: lianas differentially impact population growth rates among host trees species.	2018	Speaker at the Netherlands Annual Ecology Meeting, February 2019, Lunteren, The Netherlands. Bigger isn't always better: how regression dilution distorted the perception of negative density dependence.  Speaker at the at the Association for Tropical Biology and Conservation Annual Meeting 2016. June 2018, Kuching, Malaysia. Beyond density-dependence alone: How density-dependent and independent mechanisms together determine species abundance in a common tree species.  Speaker at the European Conference of Tropical Ecology. March 2018, Paris, France. Density-dependent regulation and density-independent limitation together determine the abundance of a common tree species.
2015 Workshop at the British Ecological Society Annual Meeting, December 2015, Edinburgh. Speeding Up Ecological and Evolutionary Computations in R; Essentials of High Performance Computing for Biologists. Organizer.  Workshop at the British Ecological Society Annual Meeting, December 2015, Edinburgh. Speeding Up Ecological and Evolutionary Computations in R; Essentials of High Performance Computing for Biologists. Organizer.  Workshop at the Evolutionary Demography Society Annual Meeting. October 2015, Lunteren. Speeding Up Ecological and Evolutionary Computations in R; Essentials of High Performance Computing for Biologists. Organizer.  Speaker at the at the Ecological Society of America Annual Meeting 2015. August 2015, Baltimore. Differential effects of lianas on population growth rates of tropical forest trees.  Workshop at the at the Ecological Society of America Annual Meeting 2015. August 2015, Baltimore. Demography in a Continuous World: New Advances in Integral Projection Models (IPMs). Co-organizer.  Workshop at the at the British Ecological Society Symposium "Demography Beyond The Population". March 2015, Sheffield. Speeding Up Ecological and Evolutionary Computations in R; Essentials of High Performance Computing for Biologists.  Speaker at the British Ecological Society Symposium "Demography Beyond The Population". March 2015, Sheffield. Differential effects of lianas on population growth rates of tropical forest trees.  Short Workshop at the Yale School of Forestry & Environmental Studies. December 2014, New Haven. Speeding Up Ecological and Evolutionary Computations in R; Essentials of High Performance Computing for Biologists.  Invited speaker at the Conference "Everything disperses to Miami", December 14 - December 16, 2012, the University of Miami. The fitness consequences of dispersal for a tropical palm; the role of dispersers, natural enemies and negative density dependence.  Invited speaker at the Marnual Ecology Meeting, February 2012, Outritying dispersal kernels through inverse modelin	2017	Parasite-host interactions in tropical trees: lianas differentially impact population growth rates among
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### Reviewer

Scientific Journals: Biotropica, Canadian Journal of Forest Research, Ecology, Ecology and Evolution, Ecology Letters, Ecological Modelling, Journal of Biogeography, Journal of Ecology, Methods in Ecology and Evolution, PLOS computational biology, The R Journal. National Funds for Scientific Research: Research Foundation Flanders (FWO).