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### Research interests

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Tropical forest ecology, forest dynamics, temperate forest ecology, dendroecology, climate change, functional traits

### Education

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- 2005 - 2010 PhD, Utrecht University, Ecology and Biodiversity Group, the Netherlands.
- Dissertation: 'Looking backwards: using tree rings to evaluate long-term growth patterns of Bolivian forest trees'.
  - Promotor: Prof. Dr. Marinus J.A. Werger, Co-promotor: Prof. Dr. Pieter A. Zuidema.
- 1999 - 2005 Biology (MSc), Utrecht University.  
Specializations in tropical ecology and tropical botany.
- MSc.-thesis: 'Leaf traits of tropical tree species differing in shade and drought tolerance' at the Ecology and Biodiversity Group, Utrecht University, the Netherlands.
  - Supervisors: Prof. dr. Lourens Poorter and Prof. Dr. Pieter A. Zuidema
  - MSc.-thesis: '*Eperua*, Evolution and Biogeography' at the (former) Plant Systematics Group, Utrecht University.
  - Supervisors: Dr. Hans ter Steege and Dr. Lars W. Chatrou
- 1993 - 1999 High school, Gymnasium Camphusianum, Gorinchem, the Netherlands.

### Positions

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- 2015 - present Postdoctoral associate, University of Regina, Department of Biology, with Dr. Mark Vanderwel
- 2013 - 2015 Guest researcher, Wageningen University, Forest Ecology and Forest Management Group, with Prof. dr. Frans Bongers and Prof. dr. Lourens Poorter
- 2012 - 2014 Postdoctoral associate, University of Connecticut, Department of Ecology and Evolutionary Biology, with Dr. Robin Chazdon
- 2010 - 2012 Postdoctoral associate, Michigan State University, Department of Forestry, with Dr. Richard Kobe

### Publications

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- Rozendaal DMA**, Chazdon RL (2015) Demographic drivers of tree biomass change during secondary succession in northeastern Costa Rica. *Ecological Applications* 25: 506-516
- Rozendaal DMA**, Kobe RK (2014) Competitive balance among tree species altered by forest tent

- caterpillar defoliation. *Forest Ecology and Management* 327:18-25
- Rozendaal DMA**, Soliz-Gamboa CC, Zuidema PA (2011) Assessing long-term changes in tropical forest dynamics: a first test using tree-ring analysis. *Trees-Structure and Function* 25:115-124
- Rozendaal DMA**, Zuidema PA (2011) Dendroecology in the tropics: a review. *Trees-Structure and Function* 25:3-16
- Soliz-Gamboa CC, **Rozendaal DMA**, Ceccantini G, Angyalossy V, van der Borg K, Zuidema PA (2011) Evaluating the annual nature of juvenile rings in Bolivian tropical rainforest trees. *Trees-Structure and Function* 25:17-27
- \***Rozendaal DMA**, Brienen RJW, Soliz-Gamboa CC, Zuidema PA (2010) Tropical tree rings reveal preferential survival of fast-growing juveniles and increased juvenile growth rates over time. *New Phytologist* 185:759-769
- Rozendaal DMA**, Soliz-Gamboa CC, Zuidema PA (2010) Timber yield projections for tropical tree species: the influence of fast juvenile growth on timber volume recovery. *Forest Ecology and Management* 259:2292-2300
- Poorter L, **Rozendaal DMA** (2008) Leaf size and leaf display of thirty-eight tropical tree species. *Oecologia* 158:35-46
- Rozendaal DMA**, Hurtado VH, Poorter L (2006) Plasticity in leaf traits of 38 tropical tree species in response to light; relationships with light demand and adult stature. *Functional Ecology* 20:207-216

\*This paper was highlighted with a commentary:

- Baker PJ (2010) Changing juvenile growth patterns in tropical trees: selective effects, history, or both? *New Phytologist* 185:595-598

#### In review:

- Poorter L, van der Sande MT, Thompson J, Arets EJMM, Alarcón A, Álvarez-Sánchez J, Ascarrunz N, Balvanera P, Barajas-Guzmán G, Boit A, Bongers F, Carvalho FA, Casanoves F, Cornejo-Tenorio G, Costa FRC, de Castilho CV, Duivenvoorden JF, Dutrieux LP, Enquist BJ, Fernández-Méndez F, Finegan B, Gormley LHL, Healey JR, Hoosbeek MR, Ibarra-Manríquez G, Junqueira AB, Levis C, Licona JC, Lisboa LS, Magnusson WE, Martínez-Ramos M, Martínez-Yrizar A, Martorano LG, Maskell LC, Mazzei L, Meave JA, Mora F, Muñoz R, Nytch C, Pansonato MP, Parr TW, Paz H, Simoes Penello M, Pérez-García EA, Rentería LY, Rodríguez-Velazquez J, **Rozendaal DMA**, Ruschel RA, Sakschewski B, Salgado Negret B, Schiatti J, Sinclair FL, Souza PF, Souza FC, Stropp J, ter Steege H, Swenson NG, Thonicke K, Toledo M, Uriarte M, van der Hout P, Walker P, Zamora N, Peña-Claros M (in revision) Diversity enhances carbon storage in tropical forests. *Global Ecology and Biogeography*.
- Rozendaal DMA**, During HJ, Sterck FJ, Asscheman D, Wiegeraad J, Zuidema PA (in revision) Long-term growth patterns of juvenile trees from a Bolivian tropical moist forest: shifting investments in diameter growth and height growth. *Journal of Tropical Ecology*.
- Rozendaal DMA**, Chazdon RL, Arreola-Villa F, Balvanera P, Bentos TV, Dupuy JM, Hernández-Stefanoni JL, Jakovac CC, Lebrija-Trejos EE, Lohbeck M, Martínez-Ramos M, Massoca PES, Meave JA, Mesquita RCG, Mora F, Pérez-García EA, Romero-Pérez IE, van Breugel M, Williamson GB, Bongers F (submitted) Contrasting aboveground biomass dynamics during secondary succession in tropical dry and wet forests.

#### Teaching experience

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| 2015 - present | Co-supervision of a MSc student, Wageningen University, Remote Sensing Group and Forest Ecology and Forest Management Group.                              |
| 2014           | Guest lecturer (on secondary succession) in the MSc course Advanced Forest Ecology and Management (FEM30306), Wageningen University.                      |
| 2012           | Guest lecturer (on herbivory) in the course Forest Ecology (FOR 404), Michigan State University, Department of Forestry.                                  |
| 2011           | Lecturer in a 4-day workshop on tropical dendrochronology at the Universidad Autónoma Gabriel Rene Moreno, Santa Cruz, Bolivia.                           |
| 2011           | Guest lecturer (on tropical dendrochronology) in the graduate level course Dendrochronology (FOR 890), Michigan State University, Department of Forestry. |

2010 and 2011	Instructor of the course Forest Ecology (FOR 404) and Forest Ecology Lab (FOR 404L), fall semester, Michigan State University, Department of Forestry.
2010	Mentor of a high-school student in the 'Future Scientist Program', Michigan State University.
2008 - 2009	Supervision of a BSc student (Bachelor thesis), Utrecht University.
2007 - 2009	Supervision of two Dutch MSc students and two Bolivian BSc students (field work in Bolivia, data analysis, and thesis writing).
2004	Teaching assistant in course 'Systematics of Neotropical Plant Families', Utrecht University.
2004	Teaching assistant in course 'Evolutionary Biology', Utrecht University.
2002 and 2003	Teaching assistant in course 'Biodiversity', Utrecht University.

### Presentations at (inter)national meetings

- Rozendaal DMA**, Chazdon RL (2013) Demographic drivers of biomass change in a second-growth rainforest. 5<sup>th</sup> World Conference on Ecological Restoration. Madison, Wisconsin, USA. Oral presentation by Robin Chazdon.
- Rozendaal DMA**, Chazdon RL (2013) Changing drivers of tree biomass increment during secondary forest succession in northeastern Costa Rica. Association for Tropical Biology and Conservation (ATBC). Annual meeting, San José, Costa Rica. Oral presentation.
- Rozendaal DMA**, Kobe RK (2012) Canopy defoliation by forest tent caterpillar influences mature tree growth in a northern hardwood forest. Annual meeting of the Ecological Society of America (ESA), Portland, Oregon, USA. Oral presentation.
- Rozendaal DMA**, Kobe RK (2011) Canopy defoliation by forest tent caterpillar strongly increased resource availability and seedling growth in northern hardwood forests of Michigan. Annual meeting of the Ecological Society of America (ESA), Austin, Texas, USA. Oral presentation.
- Rozendaal DMA**, During HJ, Sterck FJ, Asscheman D, Wiegerraad J, Zuidema PA (2010) Small tropical trees decrease investment in height growth with increasing biomass growth. Annual meeting of the Ecological Society of America (ESA), Pittsburgh, Pennsylvania, USA. Poster presentation.
- Rozendaal DMA**, Brienens RJW, Soliz-Gamboa CC, Zuidema PA (2009) Tropical tree rings reveal increasing juvenile growth rates over time and preferential survival of fast-growing juveniles. Association for Tropical Biology and Conservation (ATBC). Annual meeting, Marburg, Germany. Oral presentation.
- Rozendaal DMA**, Brienens RJW, Soliz-Gamboa CC, Zuidema PA (2009) Tropical tree rings reveal increasing juvenile growth rates over time and preferential survival of fast-growing juveniles. Netherlands Annual Ecology Meeting (NERN), Lunteren, the Netherlands. Oral presentation.
- Rozendaal DMA**, Soliz-Gamboa CC, Zuidema PA (2008) Evaluación del ciclo de corta de tres especies maderables en la Amazonía Boliviana utilizando mediciones de anillos de crecimiento. Cuarta Reunión Nacional sobre Investigación Forestal, Cobija, Bolivia. Oral presentation by Claudia Soliz-Gamboa.
- Rozendaal DMA**, Hurtado VH, Poorter L (2006) Características foliares de 39 especies arbóreas de un bosque subhúmedo tropical, que difieren en su tolerancia a la sombra. Tercera Reunión Nacional sobre Investigación Forestal, Santa Cruz, Bolivia. Oral presentation.

### Invited presentations

2014	Symposium "Recovery of Tropical Forests", Wageningen University, the Netherlands
2010	Michigan State University, Department of Forestry
2010	Symposium "Tropical Forests and Climate Change", Utrecht University, the Netherlands
2010	PhD-student symposium "Tropical Ecology", University of Amsterdam, the Netherlands
2006-2008	Various presentations in Bolivia (Instituto Boliviano de Investigación Forestal, Universidad Autónoma Rene Gabriel Moreno, Programa de Manejo de Bosques de la Amazonía Boliviana – Universidad Autónoma de Beni).

## Reviewed manuscripts for:

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Agroforestry Systems; Annals of Botany; Annals of Forest Science; BioScience; Biotropica; Ecological Research; Ecotropica; Environmental and Experimental Botany; Functional Ecology; Forest Ecology and Management; Forest Science; Forests; Forests, Trees, and Livelihoods; Journal of Ecology; New Phytologist; Plant Ecology; Tree Physiology; Trees-Structure and Function.

## Professional membership

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Association for Tropical Biology and Conservation  
Ecological Society of America

## Grants

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- 2011 Credit Suisse, 'Credit Suisse Cares for Climate Initiative'. Grant obtained through the Organization for Tropical Studies, \$11,000.  
2004 Miquel Fonds, €500 (field work and travel).  
2004 Alberta Mennega Stichting, €700 (field work and travel).  
2004 Stichting Fonds Dr. Christine Buisman, €250 (field work and travel).  
2004 Trajectum Studentship Utrecht University, €500 (field work and travel).  
2003 Alberta Mennega Stichting, €700 (field work and travel).  
2003 Van Eeden-fonds, €1250 (field work, laboratory work and travel).

## Courses

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- 2012 Pathways to Scientific Teaching (PLB 802), Department of Plant Biology, Michigan State University.  
2009 Scientific writing in English. James Boswell Institute, Utrecht, the Netherlands.  
2006 North-American Dendroecological Fieldweek. Newport, Oregon, USA.

## Other skills and experience

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- Languages: English (excellent), Spanish (good), Dutch (native)
- Field work: extensive experience in Bolivia (2.5 years) and the United States (Michigan); shorter field visits to Suriname, Guyana, and Costa Rica
- Statistical modelling in R