

Peter Groenendijk – Curriculum vitae

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Researchgate:

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Born:

4-JAN-1984 in Casa Branca (Brazil)

Professional experience

- May 2014 - now **Post-doctoral fellow Universidad Santiago de Compostela – Lugo**
- Integration of different research methodologies – tree-ring research, wood anatomy and geo/dendrochemistry – to determine the provenance of wood used in the building of Iberian oceangoing ships from the XVI and XVII century
- Nov 2014 – Apr 2015 **Post-doctoral fellow Wageningen UR – Forest Ecology and Management Group**
- Analysis population dynamics of the frankincense tree (*Boswellia papyrifera*) across its range in Africa, within the [FRAME project](#) of Frans Bongers
- Applying demographic models to assess the effects of climate variation on the dynamics of tropical tree populations within the [TROFOCLIM project](#) of Pieter Zuidema
- Mar 2010 - Apr 2014 **PhD student Wageningen UR – Forest Ecology and Management Group**
- Defended on February 20th 2015
- Fieldwork in Cameroon inside the [TROFOCLIM project](#).
- Tree-rings analysis as tool to detect long-term growth changes in tropical forests
- Supervision of seven MSc students (five Dutch and two Cameroonians)
- May 2009 - Feb 2010 **Master thesis Wageningen UR – Forest Ecology and Management Group**
- Population dynamics of the frankincense tree (*Boswellia papyrifera*) in Ethiopia. Supervised by Abeje Eshete, Frans Bongers and Pieter Zuidema
- Feb 2008 - Feb 2009 **Master thesis Utrecht University - Environmental Biology Group**
- Climate-growth relations for a dry-forest tree species (*Cedrela salvadorensis*) using tree rings in Mexico. Supervised by Roel Brienen and Pieter Zuidema
- Nov 2006 - Apr 2007 **Volunteer field assistant at EMBRAPA Acre (Brazil) + University of Florida**
- Interviewing inhabitants of the extractivism reserve Chico Mendes on the use and value of forest products. For PhD project Amy Duchelle (UF)
- Set up a small project to assess regeneration of Brazil-nut trees after forest fires installing new and re-measuring existing forest monitoring plots
- Sep 2006 - Nov 2006 **Teaching DNA-Labs in high-schools in Holland (for Utrecht Medical Centre)**
- Practical classes at high-school to teach the relation between DNA and cancer
- Feb 2006 - Apr 2006 **Student assistant Zoology, Utrecht University**
- Supervising students in the bachelor course Zoology

Education

- 2010 – 2015 **Wageningen University**
PhD candidate Forest Ecology and Management Group (defended February 20th)
- 2007 – 2010 **Utrecht University**
Master of Science (MSc) in Environmental Biology
- 2003 – 2006 **Utrecht University**
Bachelor of Science (BSc) in Biology
- 1999 – 2003 **Scholengemeenschap Marianum Groenlo**
Hightschool VWO (profile: NT+NG)

Scientific publications

- **Groenendijk, P.**, van der Sleen, P., Vlam, M., Bunyavejchewin, S., Bongers, F., Zuidema, P.A. (2015). *No evidence for consistent long-term growth stimulation of 13 tropical tree species: results from tree-ring analysis*. *Global Change Biology* – *accepted for publication*
- van der Sleen, P., Vlam, M., **Groenendijk, P.**, Anten, N.P.R., Bongers, F., Bunyavejchewin, S., Hietz, P., Pons T.L., Zuidema, P.A. (2015). *15N in tree rings as a bio-indicator of changing nitrogen cycling in tropical forests: an evaluation at three sites using two sampling methods*. [Frontiers in Plant Science 6: 229](#)
- van der Sleen, P., **Groenendijk, P.**, Zuidema, P.A. (2015). *Tree-ring $\delta^{18}\text{O}$ in African mahogany (*Entandrophragma utile*) records regional precipitation and can be used for climate reconstructions*. [Global and Planetary Change 127: 58-66](#)
- van der Sleen, P., **Groenendijk, P.**, Vlam, M., Anten, N.P.R., Boom, A., Bongers, F., Pons T.L., Terburg, G., Zuidema, P.A. (2015). *No growth stimulation of tropical trees by 150 years of CO₂ fertilization but water-use efficiency increased*. [Nature Geoscience 8: 24-28](#)
- Peters*, R.L., **Groenendijk***, P., Vlam, M., Zuidema, P.A. (2014). *Detecting long-term growth trends using tree rings: A critical evaluation of methods*. [Global Change Biology - in press](#). ***equally contributing first authors**
- **Groenendijk, P.**, Sass-Klaassen, U., Bongers, F., Zuidema, P.A. (2014). *Potential of tree-ring analysis in a wet tropical forest: A case study on 22 commercial tree species in Central Africa*. [Forest Ecology and Management 323: 65-78](#)
- Zuidema, P.A., Baker, P.J., **Groenendijk, P.**, Schippers, P., van der Sleen, P., Vlam, M., Sterck, F. (2013). *Tropical forests and global change: filling knowledge gaps*. [Trends in Plant Science 18: 413-419](#)
- **Groenendijk, P.**, Zuidema, P.A., Eshete, A., Sterck, F., Bongers, F. (2012). *Limitations to sustainable frankincense production: blocked regeneration, high adult mortality and declining populations*. [Journal of Applied Ecology 49: 164-173](#)

Professional publications

- Zuidema, P.A., **Groenendijk, P.**, Eshete, A., Sterck, F., Bongers, F. (2013). *Le déclin d'un parfumeur; Quatre Temps 36: 36-38*

Presentations at congresses

- **Groenendijk, P.**, van der Sleen, P., Vlam, M., Ehlers, I., Schlechter, J., Zuidema, P.A., *Long-term rise in [CO₂] has increased photosynthetic efficiency and water-use efficiency but not growth of tropical trees*. AGU Fall meeting 2014 – San Francisco, USA.
- **Groenendijk, P.**, Peters, R., Vlam, M., van der Sleen, P., Bongers, F., Zuidema, P.A., *Tree-ring analysis to detect centennial-scale growth changes in tropical tree species*. TRACE 2014 – Aviemore, UK
- **Groenendijk, P.**, Vlam, M., van der Sleen, P., Bongers, F., Zuidema, P.A., *Centennial-scale growth trends in 14 tree species: A pantropical tree-ring study*. ATBC 2013 – San José, Costa Rica
- Van der Sleen, P., Anten, N.P.R., Boom, A., **Groenendijk, P.**, Pons, T., Vlam, M., Zuidema, P.A., *Little evidence for long term CO₂ fertilization in tropical trees*. TRACE 2013 – Viterbo, Italy
- Vlam, M., Baker, P.J., **Groenendijk, P.**, Mohren, G.M.J., van der Sleen, P., Zuidema, P.A. *Age cohorts of trees in a tropical forest reveal the disturbance history*. INTECOL 2013 – London, UK
- **Groenendijk, P.**, Peters, R., Vlam, M., van der Sleen, P., Bongers, F., Zuidema, P.A., *Pan-tropical tree ring research: detecting long-term effects of climate change on tropical forest growth* (Poster). ATBC 2012 – Bonito, Brazil
- Zuidema, P.A., **Groenendijk, P.**, Schippers, P., van der Sleen, P., Sterck, F., Vlam, M. *What tree ring studies can and cannot tell us about tropical tree responses to climate change*. ATBC 2012 – Bonito, Brazil

Software skills

R	<i>(advanced competence)</i>	Microsoft Office	<i>(advanced competence)</i>
SPSS	<i>(advanced competence)</i>	Adobe Photoshop	<i>(intermediate competence)</i>
MatLab	<i>(basic competence)</i>	Adobe Illustrator	<i>(intermediate competence)</i>

Language skills

Dutch	<i>(native speaker)</i>	Portuguese	<i>(native speaker)</i>
English	<i>(Fluent)</i>	Spanish	<i>(Fluent)</i>
French	<i>(Intermediate)</i>	German	<i>(Basic)</i>

Interests and hobbies

Photography (see website)	Travelling
Woodworking	Percussion (building and playing instruments)