

Curriculum vitae

Prof. Dr. M.J.C. (Marieke) van der Maaten-Theunissen

Contact information

Work address

TU Dresden

Institute of Forest Growth and Forest Computer Sciences

Chair of Forest Growth and Woody Biomass Production

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Personal Details

Date of birth: 7th of March, 1985

Place of birth: Grave, the Netherlands

Nationality: Dutch

Working experience

- since 03/2018 **Full professor**, Chair of Forest Growth and Woody Biomass Production, TU Dresden, Germany.
- 05/2013–02/2018 **Post-doctoral researcher** in forest ecology, Landscape Ecology and Ecosystem Dynamics Group - Institute of Botany and Landscape Ecology, University of Greifswald, Germany.
- 10/2012–04/2013 **Researcher** in the Integrate project, European Forest Institute - Central European Regional Office and Observatory for European Forests (EFICIENT-OEF), Freiburg, Germany.

Education

- 11/2008–01/2013 **Ph.D.**, Chair of Forest Growth, University of Freiburg, Germany.
Promotor: Prof. H. Spiecker & co-promotor: Prof. G. Becker.
- 09/2006–08/2008 **M.Sc. Forest & Nature Conservation**, Wageningen University, the Netherlands.

Advanced study: Semester 'Sustainable Forestry in the southern region of the Baltic Sea', Swedish University of Agricultural Sciences (SLU), Alnarp, Sweden, 09/2006–01/2007.
- 09/2003–08/2006 **B.Sc. Forest & Nature Conservation**, Wageningen University, the Netherlands.

Rankings

06/2017

Ranked 1st (dual hire with Dr. Ernst van der Maaten) and **2^a** (individually) for the **W2 Professorship Forest Growth and Woody Biomass Production**, TU Dresden, Germany.

Call accepted 12/2017.

Publications

ISI-listed journal publications

- ◇ Fischer, K., Kreyling, J., Beaulieu, M., Beil, I., Bog, M., Bonte, D., Holm, S., Knoblauch, S., Koch, D., Muffler, L., Mougnot, P., Paulinich, M., Scheepens, J.F., Schiemann, R., Schmeddes, J., Schnittler, M., Uhl, G., **van der Maaten-Theunissen, M.**, Weier, J.M., Wilmking, M., Weigel, R. & Gienapp, P. (2021). Species-specific effects of thermal stress on the expression of genetic variation across a diverse group of plant and animal taxa under experimental conditions. *Heredity* **126**: 23-37. doi: 10.1038/s41437-020-0338-4
- ◇ Stolz, J., van der Maaten, E., Kalanke, H., Martin, J., Wilmking, M. & **van der Maaten-Theunissen, M.** (2021). Increasing climate sensitivity of beech and pine is not mediated by adaptation and soil characteristics along a precipitation gradient in northeastern Germany. *Dendrochronologia* **67**: 125834. doi: 10.1016/j.dendro.2021.125834
- ◇ Suliman, T., Berger, U., **van der Maaten-Theunissen, M.**, van der Maaten, E. & Ali, W. (2021). Modeling dominant height growth using permanent plot data for *Pinus brutia* stands in the Eastern Mediterranean region. *Forest Systems* **30**: eSC03. doi: 10.5424/fs/2021301-17687
- ◇ Trouillier, M., **van der Maaten-Theunissen, M.**, Scharnweber, T. & Wilmking, M. (2020). A unifying concept for growth trends of trees and forests - The 'potential natural forest'. *Frontiers in Forests and Global Change*. doi: 10.3389/ffgc.2020.581334
- ◇ Muffler, L., Weigel, R., Hackett-Pain, A., Klisz, M., van der Maaten, E., Wilmking, M., Kreyling, J. & **van der Maaten-Theunissen, M.** (2020). Lowest drought sensitivity and decreasing growth synchrony towards the dry distribution margin of European beech. *Journal of Biogeography* **47**: 1910-1921. doi: 10.1111/jbi.13884
- ◇ Wilmking, M.*, **van der Maaten-Theunissen, M.***, van der Maaten, E.*, Scharnweber, T., Buras, A., Biermann, C., Gurskaya, M., Hallinger, M., Lange, J., Shetti, R., Smiljanić, M. & Trouillier, M. (2020). Global assessment of relationships between climate and tree growth. *Global Change Biology* **26**: 3212-3220. *contributed equally. doi: 10.1111/gcb.15057
- ◇ Harvey, J. E., Smiljanić, M., Scharnweber, T., Buras, A., Cedro, A., Cruz-García, R., Drobyshch, I., Janecka, K., Jansons, A., Kaczka, R., Klisz, M., Läänelaid, A., Matisons, R., Muffler, L., Sohar, K., Spyt, B., Stolz, J., van der Maaten, E., **van der Maaten-Theunissen, M.**, Vitas, A., Weigel, R., Kreyling, J. & Wilmking, M. (2020). Tree growth influenced by warming winter climate and summer moisture availability in northern temperate forests. *Global Change Biology* **26**: 2505-2518. doi: 10.1111/gcb.14966
- ◇ Jetschke, G., van der Maaten, E. & **van der Maaten-Theunissen, M.** (2019). Towards the extremes: a critical analysis of pointer year detection methods. *Dendrochronologia* **53**: 55-62. doi: 10.1016/j.dendro.2018.11.004
- ◇ Scharnweber, T., Heinze, L., Cruz-García, R., **van der Maaten-Theunissen, M.** & Wilmking, M. (2019). Confessions of solitary oaks: we grow fast but we fear the drought. *Dendrochronologia* **55**: 43-49. doi: 10.1016/j.dendro.2019.04.001

- ◇ Scharnweber, T., Heußner, K-U., Smiljanić, M., Heinrich, I., **van der Maaten-Theunissen, M.**, van der Maaten, E., Struwe, T., Buras, A. & Wilmking, M. (2019). Removing the no-analogue bias in modern accelerated tree growth leads to stronger medieval drought. *Scientific Reports* **9**: 2509. doi: 10.1038/s41598-019-39040-5
- ◇ Trouillier, M., **van der Maaten-Theunissen, M.**, Scharnweber, T., Würth, D., Burger, A., Schnittler, M. & Wilmking, M. (2019). Size matters – a comparison of three methods to assess age- and size-dependent climate sensitivity of trees. *Trees* **33**: 183-192. doi: 10.1007/s00468-018-1767-z
- ◇ Hacket-Pain, A., Ascoli, D., Vacchiano, G., Biondi, F., Cavin, L., Conedera, M., Drobyshev, I., Dorado Liñán, I., Friend, A., Grabner, M., Hartl, C., Kreyling, J., Lebourgeois, F., Levanić, T., Menzel, A., van der Maaten, E., **van der Maaten-Theunissen, M.**, Muffler, L., Motta, R., Roibu, C., Popa, I., Scharnweber, T., Weigel, R., Wilmking, M. & Zang, C. (2018). Climatically controlled reproduction drives inter-annual growth variability in a temperate tree species. *Ecology Letters* **21**: 1833-1844. doi: 10.1111/ele.13158
- ◇ van der Maaten, E., Pape, J., **van der Maaten-Theunissen, M.**, Scharnweber, T., Smiljanić, M., Cruz-García, R. & Wilmking, M. (2018). Distinct growth phenology but similar daily stem dynamics in three co-occurring broadleaved tree species. *Tree Physiology* **38**: 1820-1828. doi: 10.1093/treephys/tpy042
- ◇ Trouillier, M., **van der Maaten-Theunissen, M.**, Harvey, J.E., Würth, D., Schnittler, M. & Wilmking, M. (2018). Visualizing individual tree differences in tree-ring studies. *Forests* **9**: 216. doi: 10.3390/f9040216
- ◇ Weigel, R., Klisz, M., Kreyling, J., **van der Maaten-Theunissen, M.**, Muffler, L., Wilmking M. & van der Maaten, E. (2018). Winter matters: sensitivity to winter climate and cold events increases towards the cold distribution margin of European beech (*Fagus sylvatica* L.). *Journal of Biogeography* **45**: 2779-2790. doi: 10.1111/jbi.13444
- ◇ Carl, C., Landgraf, D., **van der Maaten-Theunissen, M.**, Biber, P. & Pretzsch, H. (2017). *Robinia pseudoacacia* L. flower analyzed by using unmanned aerial vehicle (UAV). *Remote Sensing* **7**: 1091. doi: 10.3390/rs9111091
- ◇ van der Maaten, E., Hamann, A., **van der Maaten-Theunissen, M.**, Bergsma, A., Henge-veld, G., van Lammeren, R., Mohren, F., Nabuurs, G-J., Terhürne, R. & Sterck, F. (2017). Species distribution models predict temporal but not spatial variation in forest growth. *Ecology and Evolution* **7**: 2585-2594. doi: 10.1002/ece3.2696
- ◇ van der Maaten, E., Mehl, A., Wilmking, M. & **van der Maaten-Theunissen, M.** (2017). Tapping the tree-ring archive for studying effects of resin extraction on the growth and climate sensitivity of Scots pine. *Forest Ecosystems* **4**: 7. doi: 10.1186/s40663-017-0096-9
- ◇ Príncipe, A., van der Maaten, E., **van der Maaten-Theunissen, M.**, Struwe, T., Wilmking, M. & Kreyling, J. (2017). Low resistance but high resilience in growth of a major deciduous forest tree (*Fagus sylvatica* L.) in response to late spring frost in southern Germany. *Trees - Structure and Function* **31**: 743-751. doi: 10.1007/s00468-016-1505-3
- ◇ Wilmking, M., Buras, A., Eusemann, P., Schnittler, M., Trouillier, M., Würth, D., Lange, J., **van der Maaten-Theunissen, M.** & Juday, G. (2017). High frequency growth variability of White spruce clones does not differ from non-clonal trees at Alaskan treelines. *Dendrochronologia* **44**: 187-192. doi: 10.1016/j.dendro.2017.05.005
- ◇ Wilmking, M., Scharnweber, T., **van der Maaten-Theunissen, M.** & van der Maaten, E. (2017). Reconciling the community with a concept – The Uniformitarian principle in the dendro-sciences. *Dendrochronologia* **44**: 211-214. doi: 10.1016/j.dendro.2017.06.0051

- ◇ Buras, A., **van der Maaten-Theunissen, M.**, van der Maaten, E., Ahlgrimm, S., Hermann, P., Simard, S., Heinrich, I., Helle, G., Unterseher, M., Schnittler, M., Eusemann, P. & Wilmking, M. (2016). Tuning the voices of a choir: detecting ecological gradients in time-series populations. *PLOS ONE* **11**: e0158346. doi: 10.1371/journal.pone.0158346
- ◇ van der Maaten, E., **van der Maaten-Theunissen, M.**, Smiljanić, M., Rossi, S., Simard, S., Wilmking, M., Deslauriers, A., Fonti, P., von Arx, G. & Bouriaud, O. (2016). dendrometeR: analyzing the pulse of trees in R. *Dendrochronologia* **40**: 12-16. doi: 10.1016/j.dendro.2016.06.001
- ◇ **van der Maaten-Theunissen, M.**, Bümmerstede, H., Iwanowksi, J., Scharnweber, T., Wilmking, M. & van der Maaten, E. (2016). Drought sensitivity of beech on a shallow chalk soil in northeastern Germany - a comparative study. *Forest Ecosystems* **3**: 24. doi: 10.1186/s40663-016-0083-6
- ◇ van der Maaten, E., **van der Maaten-Theunissen, M.**, Buras, A., Scharnweber, T., Simard, S., Kaiser, K., Lorenz, S. & Wilmking, M. (2015). Can we use tree rings of black alder to reconstruct lake levels? A case study for the Mecklenburg Lake District, northeastern Germany. *PLOS ONE* **10**: e0137054. doi: 10.1371/journal.pone.0137054
- ◇ **van der Maaten-Theunissen, M.***, van der Maaten, E.* & Bouriaud, O. (2015). pointRes: An R package to analyze pointer years and components of resilience. *Dendrochronologia* **35**: 34-38. *contributed equally. doi: 10.1016/j.dendro.2015.05.006
- ◇ Schulz, T., Krumm, F., Bücking, W., Frank, G., Kraus, D., Lier, M., Lovrić, M., **van der Maaten-Theunissen, M.**, Paillet, Y., Parviainen, J., Vacchiano, G. & Vandekerckhove, K. (2014). Comparison of integrative nature conservation in forest policy in Europe: a qualitative pilot study of institutional determinants. *Biodiversity and Conservation* **23**: 3425-3450. doi: 10.1007/s10531-014-0817-0
- ◇ Smiljanić, M., Seo, J-W., Läänelaid, A., **van der Maaten-Theunissen, M.**, Stajić, B. & Wilmking, M. (2014). Peatland pines as a proxy for water table fluctuations: Disentangling tree growth, hydrology and possible human influence. *Science of the Total Environment* **500-501**: 52-63. doi: 10.1016/j.scitotenv.2014.08.056
- ◇ Lindner, M., Fitzgerald, J.B., Zimmermann, N.E., Reyer, C., Delzon, S., van der Maaten, E., Schelhaas, M., Lasch, P., Eggers, J., **van der Maaten-Theunissen, M.**, Suckow, F., Psomas, A., Poulter, B. & Hanewinkel, M. (2014). Climate change and European forests: what do we know, what are the uncertainties, and what are the implications for forest management? *Journal of Environmental Management* **146**: 69-83. doi: 10.1016/j.jenvman.2014.07.030
- ◇ Spathelf, P., van der Maaten, E., **van der Maaten-Theunissen, M.**, Campioli, M. & Dobrowolska, D. (2014). Climate change impacts in European forests: the expert-views of local observers. *Annals of Forest Science* **71**: 131-137. doi: 10.1007/s13595-013-0280-1
- ◇ van der Maaten, E., Bouriaud, O., **van der Maaten-Theunissen, M.**, Mayer, H. & Spiecker, H. (2013). Meteorological forcing of day-to-day stem radius variations of beech is highly synchronic on opposing aspect of a valley. *Agricultural and Forest Meteorology* **181**: 85-93. doi: 10.1016/j.agrformet.2013.07.009
- ◇ **van der Maaten-Theunissen, M.**, Boden, S. & van der Maaten, E. (2013). Wood density variations of Norway spruce (*Picea abies* (L.) Karst.) under contrasting climate conditions in southwestern Germany. *Annals of Forest Research* **56**: 91-103.
- ◇ **van der Maaten-Theunissen, M.**, Kahle, H.P. & van der Maaten, E. (2013). Drought sensitivity of Norway spruce is higher than that of silver fir along an altitudinal gradient in southwestern Germany. *Annals of Forest Science* **70**: 185-193. doi: 10.1007/s13595-012-0241-0

- ◇ van der Maaten, E., **van der Maaten-Theunissen, M.** & Spiecker, H. (2012). Temporally resolved intra-annual wood density variations in European beech (*Fagus sylvatica* L.) as affected by climate and aspect. *Annals of Forest Research* **55**: 113-124.
- ◇ **van der Maaten-Theunissen, M.** & Bouriaud, O. (2012). Climate-growth relationships at different stem heights in silver fir and Norway spruce. *Canadian Journal of Forest Research* **42**: 958-969. doi: 10.1139/x2012-046

Other publications (excl. conference contributions)

- ◇ Scharnweber, T., **van der Maaten-Theunissen, M.**, van der Maaten, E. & Wilmking, M. (2015). Dendroökologische Forschung auf der Insel Vilm. *Pages 147-151 of: Gehlhar, U., & Knapp, H.D. (eds), Erste Ergebnisse der Naturwaldforschung im Naturwaldreservat Insel Vilm*, BfN-Skripten 390, Bonn.
- ◇ **van der Maaten-Theunissen, M.** (2013). Growth responses of silver fir (*Abies alba* Mill.) and Norway spruce (*Picea abies* (L.) Karst.) to climate along an altitudinal gradient in southwestern Germany. Ph.D. thesis, University of Freiburg, Germany, 126 p.
- ◇ **van der Maaten-Theunissen, M.** & Schuck, A. (2013). Integration of Nature Protection in Forest Policy in the Netherlands. INTEGRATE Country Report. EFICIENT-OEF, Freiburg, 50 p.
- ◇ Quadt, V., **van der Maaten-Theunissen, M.** & Frank, G. (2013). Integration of Nature Protection in Forest Policy in Austria. INTEGRATE Country Report. EFICIENT-OEF, Freiburg, 35 p.
- ◇ **van der Maaten-Theunissen, M.** (2012). Climate response of radial growth of silver fir (*Abies alba* Mill.) and Norway spruce (*Picea abies* (L.) Karst.) in the Black Forest, Germany. *Pages 28-40 of: Gärtner, H., Rozenberg, P., Montès, P., Bertel, O., Heinrich, I. & Helle, G. (eds), TRACE – Tree Rings in Archaeology, Climatology and Ecology*, vol. 10. GFZ Potsdam, Scientific Technical Report STR12/03, Potsdam. (peer-reviewed)
- ◇ **van der Maaten-Theunissen, M.**, Spiecker, H., Gärtner, H., Heinrich, I. & Helle, G. (eds) (2011). *TRACE - Tree Rings in Archaeology, Climatology and Ecology*, vol. 9. GFZ Potsdam, Scientific Technical Report STR11/07, Potsdam, 192 p.
- ◇ **van der Maaten-Theunissen, M.**, Kahle, H.P. & Spiecker, H. (2010). Growth responses and cell characteristics of silver fir (*Abies alba* Mill.) and Norway spruce (*Picea abies* (L.) Karst.) at different altitudes in south-western Germany. *Pages 21-25 of: Levanič, T., Gričar, J., Hafner, P., Krajnc, R., Jagodic, S., Gärtner, H., Heinrich, I. & Helle, G. (eds), TRACE – Tree Rings in Archaeology, Climatology and Ecology*, vol. 8. GFZ Potsdam, Scientific Technical Report STR10/05, Potsdam. (peer-reviewed)
- ◇ **Theunissen, M.** (2008). What makes birches grow? Relating environmental factors to the growth of birch in raised bogs. M.Sc. thesis, Wageningen University, the Netherlands, 38 p.
- ◇ **Theunissen, M.** (2006). Heather with shrubs - a study on the distribution of oak shrubs in 1832 (original title in Dutch: *Heide met struiken - een onderzoek naar de distributie van eikenstrubben in 1832*). B.Sc. thesis, Wageningen University, the Netherlands.

Grants / Raised funding

2019

Contract research ‘Jahrringanalytisch basierte Ableitung von Waldentwicklungstypen (WET) für Rekultivierungsflächen des Lausitzer Braunkohlenreviers’, Research Institute for Post-Mining Landscapes (FIB) (15t Euro).

- 2019 **NERC project** ‘ForeSight: Predicting and monitoring drought-linked forest growth decline across Europe’ (06/2019–05/2022; total funding: 800t GBP); co-PI / WP-leader.
- 2018 **Research grant** of the Eva Mayr-Stihl Stiftung to the project ‘Untersuchung der Auswirkungen des globalen Wandels auf die Wälder Mecklenburg-Vorpommerns durch Kombination von langjährigen Messdaten und retrospektiven Jahrringdaten’ (8.3k Euro).
- 2015 **DFG Research Training Group** GRK 2010 ‘Biological RESPONSEs to Novel and Changing Environments’ (04/2015–09/2019; total funding: 4.4m Euro); co-PI.
- 2015 **Research grant** of the Eva Mayr-Stihl Stiftung to the project ‘Zur Vergangenheit und Zukunft der Rotbuche (*Fagus sylvatica* L.) im Nationalpark Jasmund, Rügen’ (7.3k Euro).
- 2011 **Conference scholarship** for TRACE 2011, Orléans, France; grant of the Association for Tree-Ring Research (150 Euro).
- 2009 **Conference scholarship** for TRACE 2009, Otočec, Slovenia; grant of the Association for Tree-Ring Research (150 Euro).
- 2008 **3-year Ph.D.-scholarship** of the Landesgraduiertenförderung Baden-Württemberg (36k Euro).

Academic self-administration and services

Current activities:

- Associate editor** For the open-access journal *Frontiers in Forests and Global Change*, since 05/2018.
- Board member** Examination board member B.Sc./M.Sc ‘Forest Sciences’, TU Dresden, since 03/2018.
- Commissioner** Member of the department committee (Fachausschuss) ‘Forest Sciences’, TU Dresden, since 03/2018.
- Reviewer** For the following ISI-listed journals:
Allgemeine Forst- und Jagdzeitung – Applications in Plant Sciences – Canadian Journal of Forest Research – Climatic Change – Dendrochronologia – Ecosphere – Forest Ecology and Management – iForest – International Journal of Biometeorology – Journal of Biogeography – PLOS ONE – Scandinavian Journal of Forest Research – Silva Fennica – Trees – Tree-Ring Research.
- SAB member** Scientific advisory board member of the *Association for Tree-Ring Research* (ATR), since 03/2018.

Former activities:

- Coordinator** Lab activity coordinator of the Tree-Ring Lab ‘DendroGreif’, University of Greifswald. Moderator of bi-weekly meetings, 09/2013 – 01/2018.
- Guest editor** For the ISI-listed journal *Dendrochronologia*, special issue ‘TRACE 2018’, 08/2018 – 02/2019.

Invited talks

- 27/04/2018 *“Towards the extremes – growth responses and resilience of trees after climatic and environmental disturbance”*. International conference TRACE 2018, Greifswald, Germany.
- 10/01/2018 *“exTREMES - climate change impacts on tree growth”*. Colloquium of the Büsgen Institute, University of Göttingen, Germany.
- 06/04/2017 *“Global change and adaptive forest management - what we can learn from tree rings”*. Symposium ‘Advances and Challenges in Forest Management’, ETH Zürich, Switzerland.
- “Waldbauliche Maßnahmen und deren Einfluss auf den Waldboden”*. ETH Zürich, Switzerland.
- 10/01/2017 *“Forests in a changing world: a tree-ring perspective on climate change impacts and early warning signals”*. W2-Professur Forest Growth and Woody Biomass Production, TU Dresden, Germany.
- “Einfluss der Durchforstungsart -und nicht der Durchforstungsstärke- auf Bestandesmerkmale bei der Rotbuche”*. W2-Professur Forest Growth and Woody Biomass Production, TU Dresden, Germany.
- 04/02/2016 *“Zur Vergangenheit und Zukunft der Rotbuche (Fagus sylvatica L.) im Nationalpark Jasmund, Rügen”*. Colloquium ‘Vorstellung von Forschungsergebnissen aus dem Nationalpark Jasmund’, Nationalparkzentrum Königsstuhl, Germany.
- 09/12/2015 *“Forests under climate change - assessing impacts and adaptive potential”*. Colloquium of the Institute of Ecology, University of Jena, Germany.

Teaching

Currently, I am involved in the following B.Sc./M.Sc. courses at TU Dresden:

- ◇ *Analysis and Assessment of Wood Production in Forest Stands* (B.Sc.), since 2018.
- ◇ *Assessment and Evaluation of Forest Resources* (M.Sc.), since 2018.
- ◇ *Dendroecology* (M.Sc.), since 2018.
- ◇ *Field trip ‘Rhineland-Palatinate & the Netherlands’* (B.Sc.), starting 2019.
- ◇ *Forest Mensuration* (B.Sc.), since 2018.
- ◇ *Lumber Grading* (B.Sc.), since 2018.

I have been a lecturer of the following B.Sc./M.Sc. courses at the University of Greifswald:

- ◇ *Botanical excursions* (B.Sc.), 2013 – 2016.
- ◇ *Climate Change and Ecosystem Dynamics* (M.Sc.), 2013 – 2015.
- ◇ *Cultural Landscape History* (B.Sc.), 2013 – 2017.
- ◇ *Dendrochronology and -ecology* (M.Sc.), 2013 – 2017.

- ◇ *Forestry* (B.Sc.), 2016 – 2017.
- ◇ *Landscape-ecological excursion* (B.Sc.), 2013 – 2017.
- ◇ *Practical Landscape Ecology I* (B.Sc./M.Sc.), 2014 – 2017.
- ◇ *Statistics* (B.Sc.), 2016 – 2018.
- ◇ *Vegetation science* (B.Sc.), 2013 – 2017.

Supervision

Ph.D. students

4 ongoing, 2 finished:

Suliman, T. (2020) Distance-independent individual-based forest model for even aged stands of brutia pine in the coastal region of Syria. TU Dresden, Germany.

co-supervision

Trouillier, M. (2018) Individual white spruce (*Picea glauca* (Moench) Voss) growth limitations at treelines in Alaska. University of Greifswald, Germany.

M.Sc. students

9 finished theses:

Borde, Thaddäus (2021). Climate sensitivity and drought stress tolerance of different *Larix x eurolepis* Henry progenies. M.Sc. thesis, TU Dresden, Germany.

Fichtner, Isabel (2021). Das Marteloskop Tharandter Wald: ein waldbauliches Übungsinstrument für eine nachhaltige und integrative Waldbewirtschaftung. M.Sc. thesis, TU Dresden, Germany.

Samfaß, Andreas (2021). Growth prognosis of *Fagus sylvatica* (L.) in Mecklenburg-Western Pomerania under different climate scenarios using tree-ring data. M.Sc. thesis, TU Dresden, Germany.

Thiem, Elke (2021). Dendrochronologische Untersuchungen zu Absterbeercheinungen der Rotbuche in Mecklenburg-Vorpommern. M.Sc. thesis, TU Dresden, Germany.

Rossa, H. (2019). Sensitivität und Resilienz – Wie reagieren Rotbuche (*Fagus sylvatica* L.) und Wald-Kiefer (*Pinus sylvestris* L.) auf den Klimawandel im Mecklenburg-Vorpommern. M.Sc. thesis, University of Greifswald, Germany.

Räbiger, C. (2017). Einfluss von Wölbackerstrukturen auf Wachstum und Klimasensitivität von Rotbuche und Stieleiche. M.Sc. thesis, University of Greifswald, Germany.

Heinze, L. (2016). Dendroökologischer Vergleich von Feld- und Waldeichen (*Quercus robur*) aus dem Gebiet des Naturparks Nossentiner/Schwinzer Heide. M.Sc. thesis, University of Greifswald, Germany.

Hümpfner, I. (2016). Klimasensitivität einheimischer und fremdländischer Baum-arten: Haben Sitka-Fichte und Co eine Zukunftsperspektive? M.Sc. thesis, University of Greifswald, Germany.

Kunze, C. (2014). Drivers of tree recruitment in the Eldena forest. Diploma thesis, University of Greifswald, Germany.

B.Sc. students

18 finished theses:

Langer, Fabian (2021). Dendroökologische Untersuchung von *Fagus sylvatica* im Revier Langula hinsichtlich der Klimasensitivität. B.Sc. thesis, FH Erfurt, Germany.

Noack, Erwin (2021). Vergleich der Potentiale von Birke, Weide und Pappel für die Nutzung auf Kurzumtriebsplantagen – eine Literaturrecherche. B.Sc. thesis, TU Dresden, Germany.

Reihs, Justus (2021). Trockenstress und Fichte: Unterscheiden sich SO₂-tolerante und SO₂-sensitive Herkünfte in ihren Wachstumsreaktionen? B.Sc. thesis, TU Dresden, Germany.

Brielmayer, Tore (2020). Die Zukunft der Douglasie im Klimawandel – eine literaturbasierte Bewertung. B.Sc. thesis, TU Dresden, Germany.

Stiasny, P. (2018). Vegetation dynamics in the forest nature reserve “Heilige Hallen” following a storm event in 2002. B.Sc. thesis, University of Greifswald, Germany.

Dickel, L. (2017). Habitat and food selection of beef cattle in outfield pastures in southeastern Norway. B.Sc. thesis, University of Greifswald, Germany.

Engelhardt, F. (2017). Erfolgskontrolle einer Mahdgutübertragung im NSG “Großes Torfmoor” (Landkreis Minden Lübbecke). B.Sc. thesis, University of Greifswald, Germany.

Köpke, T. (2017). Vegetationsdynamik auf dem Flächennaturdenkmal Heidehügel bei Mesekenhagen. B.Sc. thesis, University of Greifswald, Germany.

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Skills & Qualifications

Familiar software packages

Microsoft Office, L^AT_EX
R, Matlab, SPSS
CooRecorder/CDendro
WinDendro/WinCell
QGIS

Languages

Dutch (native)
English (fluent)
German (fluent)
French (basic)

Tharandt, July 28, 2021