

Curriculum vitae: Prof Dr Jürgen Bausus  
Chair of Silviculture  
University of Freiburg  
Date of birth: 23 June 1964  
Nationality: German

**Present appointments**

- Since June 2003. Professor of Silviculture, University of Freiburg

**Previous positions**

- Oct. 2010 – Jan. 2013. Dean, Faculty of Forest and Environmental Sciences, University of Freiburg
- Sept. 2003. – Sept. 2010. Adjunct Professor, School of Resources, Environment and Society, Australian National University, Canberra.
- Jul. 2001 - Jan. 2002. Guest-Professor at the Institute of Silviculture, Göttingen University, Germany.
- June 1996 – May 2003. Lecturer, and from 1999 onwards Senior Lecturer, Australian National University, Forestry Program, School of Resources, Environmental and Society.
- Aug. 1994 - May 1996. Post-Doctoral Fellow at the Department of Biological Sciences, University of Quebec at Montreal, Canada.
- Jan. - July 1994. Research Scientist and Public Relations Manager at the Forest Ecosystems Research Centre, Göttingen University, Germany.
- Jan. 1991 - Dec. 1993. PhD student at the Institute of Silviculture, Göttingen University, Germany.
- Mar. - Dec. 1990. Pre-Doctoral Fellow (DAAD), CSIRO Forestry and Forest Products, Canberra, Australia.
- Jan. - Feb. 1990. Research Assistant at the Institute of Silviculture, Göttingen University, Germany.
- Oct. - Dec. 1989. Researcher Assistant at the Forest Experimental Station, Lower Saxony, Germany.

**Academic Qualifications**

- 1989, Diploma in Forestry (equivalent to BSc Honours, First Class), Forestry Faculty, Georg-August University Göttingen, Germany
- 1994, Doctor of Forest Sciences (Thesis title 'Nutrient Cycling in Beech Forest Gaps', Summa Cum Laude), Forestry Faculty, Georg-August University Göttingen, Germany

**Academic Awards, Distinctions & Scholarships**

- 2014 Outstanding Scientific Achievement Award of the International Union of Forest Research Organizations (IUFRO)
- 2008 Teaching Award of the University of Freiburg
- 2008, „Professor of the year“ Award by the German university magazine UNICUM in the category natural sciences and medicine
- 2001, Deutsche Forschungsgemeinschaft (DFG) Mercator Guest-Professorship
- 1995, Foundation of the University of Quebec at Montreal, Postdoctoral Fellow scholarship
- 1994, Bourse d'Excellence, Government of Quebec, Ministry of Education, Postdoctoral Fellow scholarship
- Scholarship: German Academic Exchange Organisation (DAAD) for pre-doctoral research at CSIRO Division of Forestry and Forest Products, Canberra

**Service to the University of Freiburg**

- Vice Dean, Faculty of Environment and Natural Resources, Jan. 2013 – April 2016
- Head of the Institute of Forest Sciences, University of Freiburg, since Jan 2013
- Dean, Faculty of Forest and Environmental Sciences, Oct. 2010 – Jan. 2013
- Member, Senate Committee for Structure and Development, Oct. 2010 – Oct. 2014
- Director: Graduate School "Environment, Society and Global Change" 2008-2010
- Programme leader: International MSc Programme – Forest Ecology and Management, 2005-2008
- Programme leader: International PhD Programme – Forestry in Transition, 2004-2007

- Programme leader: Binational PhD Programme FORIX – between Nancy and Freiburg, funded by the German-French University, 2006-2007

### **Service to the Scientific Community – Editing and Reviewing**

- European Science Foundation, College of Expert Reviewers (by invitation) (2018-2021)
- Member of the DFG review board for Agriculture, Forestry, Horticulture and Veterinary Medicine (2016-2019)
- Associate Editor of Journals: *Forest Ecosystems*, *European Journal of Forest Research*, *Frontiers in Forests and Global Change*, *Forests* (2013-2018), *Canadian Journal of Forest Research* (2005-2008), *Australian Forestry* (2001-2003)
- Regular Reviewer of manuscripts for the journals: *Forest Ecology & Management*, *European Journal of Forest Research*, *Plant and Soil*, *Canadian Journal of Forest Research*, *Trees*, *Oecologia*, *Journal of Applied Ecology*, *Annals of Forest Science*,
- Occasional Reviewer of manuscripts for the journals: *Tree Physiology*, *Global Change Biology*, *Ecosystems*, *New Phytologist*, *Biological Conservation*, *Biodiversity and Conservation*, *Science*, *Ecological Applications*, *Soil Science Society of America Journal*, *Austral Ecology*, *Annals of Forest Sciences*, *Forestry*, *Journal of Plant Nutrition and Soil Science*, *Allgemeine Forst- und Jagdzeitschrift*, *Journal of Tropical Forest Science*, *Plant Biology*, *Soil Biology and Biochemistry*, *Regional Environmental Change*, *Forest Policy and Economics*, *PLoS One*, *Basic and Applied Ecology*, *Geoderma*, *Biogeochemistry*, *Journal of Ecology*,
- Reviewer of Research proposals for: *Deutsche Forschungsgemeinschaft*, *European Research Council*, *Finish Academy of Sciences*, *Australian Research Council (International Reader)*, *Canadian Network of Centres of Excellence*, *The Netherlands Organisation for Scientific Research (NWO)*, *Deutsche Bundesstiftung Umwelt*, *Schweizer Bundesamt für Umwelt (BAFU)*, *National Research Foundation of South Africa*, *Kazakhstan National Center of Science and Technology Evaluation*, *EU-COST Action*, *ETH Zürich grants*
- Member of international review panels: *Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning (FORMAS)*, *Portuguese Foundation for Science and Technology*, *French High Council for the Evaluation of Research and Higher Education (HCERES) (leader of review team)*, *The Department of Geosciences and Natural Resource Management (IGN) at University of Copenhagen (leader of review team)*.

### **Service to the Scientific and Professional Community – Advisory Boards, External Examinations, Selection Committees and boards of foundations**

- Member – Scientific Advisory Board on Forest Policy at the Federal Ministry of Food, Agriculture, and Consumer Protection, since 2013
- Member – Scientific expert committee for the Baden-Württemberg Program for the Promotion of Biodiversity, Ministry of Rural Affairs, Food and Consumer Protection, since 2018
- Member – Scientific Advisory Board on Agricultural Policy at the Federal Ministry of Food, Agriculture, and Consumer Protection, 2009-2015
- Chair – Silviculture Research Group, under the German Association of Forest Research and Experimental Institutions (DVFFA), 2010-2014.
- Co-Initiator: DFG Priority Programm SPP 1685 on Ecosystem Nutrition
- Co-Initiator: Research Programm Bioeconomy of the state of Baden-Württemberg
- Member – Kuratorium of the Forest Experimental Station of Baden-Württemberg, 2010-2017
- Member - Advisory Board of the Research Programme Forest and Climate Change of the Swiss Federal Office for Environment and the Swiss Federal Institute for Forest, Snow and Landscape Research (WSL), 2011-2016
- Member – Advisory Board of the Association of Forest Site Classification and Tree Breeding, since 2010
- Expert Member, Climate change adaptation strategy of the State of Baden-Württemberg, section Forestry
- Member – Steering Committee (Stiftungsrat) Waldhaus Freiburg, since 2010
- External Member of Selection Committees for ETH Zürich, University of Natural Resources and Applied Life Sciences (Boku), Vienna; Göttingen University;

- External Examiner: University College, Dublin; The Royal Veterinary and Agricultural University, Copenhagen; University of Queensland, Brisbane; University of Tasmania, Hobart; University of Melbourne; ETH Zürich, Canterbury University, Christchurch, New Zealand; Estonian University of Life Science, Tartu; KU Leuven, Belgium; TU Dresden – IHI Zittau;
- Board of the Georg-Ludwig-Hartig Foundation (2004-2015)

### **Invited Presentations**

#### • Jazzhaus

- Freiburger Winterkolloquium Forst und Holz. Freiburg, January 2019: Klimaschutz durch Waldwirtschaft
- ETH Zürich 2018: Gemischte, artenreiche Wälder für vielfältige Leistungen stabiler Ökosysteme – Eine Standortsbestimmung zwischen Wunsch und Wirklichkeit
- Universität für Bodenkultur Wien 2018: Mixed species forests - The silver bullet for providing multiple ecosystem services from resilient ecosystems?
- Österreichische Forsttagung, Eisenstadt 2018: Die Erfüllung multipler gesellschaftlicher Ansprüche mittels diverserer Wälder – kann der Waldbau dieses Versprechen einlösen?"
- Universität Mainz 2018: Herausforderungen des Klimawandels für den Waldbau
- Tagung des Bundesministeriums für Ernährung und Landwirtschaft: Erhaltungsmanagement von Eichen- Lebensraumtypen, Bad Windsheims: Waldbauliche Grundlagen der Eichenwirtschaft, Juni 2018
- Tagung: 30 Jahre natürliche Waldentwicklung in Hessen – Naturwaldreservate als Modell? Juni 2018: Bedeutung von Naturwaldreservaten für die waldbauökologische und waldbauliche Forschung
- Universidad de Chile, Santiago, März 2018: The potential of mixed species forests
- Landesforsten Rheinland-Pfalz, November 2017: Klimaschutzplan 2050 - welche Rolle spielen der Wald und der Werkstoffholz als CO2 Senke?
- Jahrestagung ForstBW, Nov. 2016: Waldbauliche Potenziale im Forstbetrieb
- Tagung: Invasive Arten im Wald, Forstliche Versuchsanstalt Baden-Württemberg, Nov. 2016: Waldbauliche Potenziale und Risiken der Douglasie
- University of Copenhagen, June 2016: Sustainable, intensive forest management - the key to climate change mitigation
- International Silviculture Congress, Florence 2014
- Université du Québec en Abitibi-Témiscamingue, August 2014: Potential role of minor tree species to adapt Central European forests to climate change – and what we may do with them
- Université du Québec à Montréal, September 2014: Quantifying Forest Management Intensity
- Université Laval and Forestry Canada, Québec City, Québec, August 2014: Reconciling increasing demands for biodiversity conservation and biomass production in Germany's forests
- Festvortrag anlässlich der Feiern zum 40-jährigen Jubiläum der Fakultät Ressourcenmanagement an der Hochschule für Angewandte Wissenschaft und Kunst Hildesheim/Holzminde/Göttingen, Mai 2014: Intensivierung der Waldwirtschaft und mehr Naturschutz - geht das?
- Ringvorlesung „Naturschutz aktuell“ der Alfred-Töpfer Akademie und der Leuphana Lüneburg, Januar 2014: Intensive Waldwirtschaft und Naturschutz - geht das?
- Utah State University, Logan, October 2014: Reconciling increasing demands for biodiversity conservation and biomass production in Germany's forests
- 3<sup>rd</sup> International Congress on Planted Forests, Dublin 2013
- Plantations or wilderness? 300 years of sustainable forest management, TU Dresden, 2013
- Forstwissenschaftliche Tagung 2012
- University of Wageningen, 2011: Ecosystem Goods and Services from Plantation Forests
- Universität Frankfurt, Juni 2011: Ecological interactions in mixed-species forests and their implications for management
- Tagung des Deutschen Forstvereins, Aachen 2011: Welchen Waldbau will der Markt?
- Weihenstephaner Forsttag, „Möglichkeiten und Grenzen der Energieholznutzung“, November 2010.
- National Forest Strategy 2020 Meeting. Berlin, April 2010.
- Freiburger Winterkolloquium Forst und Holz. Freiburg, January 2010.
- International Pro-Silva Conference (20<sup>th</sup> anniversary), Logarska Dolina, Slowenien, September 2009
- International Conference “Old Forests - New Systems”, Hobart, Tasmania, February 2008

- National Convention of the Institute of Chartered Foresters of Britain, York, September 2007
- International Workshop on Oldgrowth Forests, Jena, Germany, September 2006
- International Botanical Congress, Vienna 2005: The effects of tree species mixtures on nutrient cycling and ecosystem productivity.
- IUFRO World Congress, Brisbane 2005: Designing long-term silvicultural experiments in structurally complex forests.

**PhD Supervision, degree awarded (Theses that won prestigious awards are in bold)**

1. Christopher O'Hara 2003. The significance of soil physical fractions for the cycling of phosphorus, carbon and nitrogen in forests of south-east Australia. Australian National University.
2. David Forrester 2004. Mixed-species plantations of nitrogen-fixing and non-nitrogen-fixing trees. Australian National University.
3. Chris McElhinny 2005. Quantifying stand structural complexity in woodland and dry sclerophyll forest, south-eastern Australia. Australian National University.
4. Lorenzo Bonosi 2005. The influence of light and size on photosynthetic performance, light interception, biomass partitioning and tree architecture in *A. pseudoplatanus*, *F. excelsior* and *F. sylvatica* seedlings. University of Freiburg.
5. Hannes Böttcher 2007. Forest management for climate change mitigation – Modeling of forestry options, their impact on the regional carbon balance and implications for a future climate protocol. University of Freiburg.
6. Kobsak Wanthonchai 2008. Effects of different burning frequencies on fire behaviour, nutrient dynamics, soil properties, and vegetation structure and composition in dry dipterocarp forest, Huay Kha Khaeng Wildlife Sanctuary, Thailand. University of Freiburg.
7. Tiemo Kahl. 2008. Kohlenstofftransport aus dem Totholz in den Boden. University of Freiburg.
8. Philip Alcorn 2009. Crown dynamics and pruning response in young plantation-grown *Eucalyptus pilularis* and *Eucalyptus cloeziana* trees. Australian National University.
9. Marie-Cecile Gruselle 2009. Litter decomposition in mixed spruce-beech stands. University of Freiburg.
10. Julia Dordel 2009. Effects of nurse tree species on growth environment and physiology of underplanted *Toona ciliata* Roemer in subtropical Argentinean plantations. University of British Columbia.
11. André Nzogang 2009. Tropical forest dynamics after logging – natural regeneration and growth of commercial tree species in southeast Cameroon. University of Freiburg.
12. Mark Neyland 2009. The response of the vegetation to a range of alternatives to clearfelling of tall wet eucalypt forests at the Warra silvicultural systems trial, Tasmania, Australia. University of Tasmania.
13. Axel Albrecht 2009. Sturmschadensanalysen langfristiger waldwachstumskundlicher Versuchsflächendaten in Baden-Württemberg. University of Freiburg.
14. Heidi Bäuerle 2010. Methoden zur Erfassung und räumlichen Modellierung von Habitatbäumen und stehendem Totholz auf der Grundlage von Stichproben. University of Freiburg.
15. **Patrick Pyttel 2011. Aspekte einer nachhaltigen Bewirtschaftung durchgewachsener Niederwälder. University of Freiburg. Thurn und Taxis Preis für die Forstwissenschaft**
16. Pifeng Lei 2011. Effects of tree species diversity on belowground interactions in a young temperate forest. University of Freiburg.
17. **Jan Bannister 2012. Dynamics and restoration of *Pilgerodendron uviferum* forests on Chiloé Island, North Patagonia, Chile. University of Freiburg. IUFRO Outstanding Doctoral Research Award.**
18. Somidh Saha 2012. Development of tree quality, productivity, and diversity in oak (*Quercus robur* and *Q. petraea*) stands established by cluster planting. University of Freiburg.
19. **Julia Sohn 2014. Can thinning of conifer stands increase drought tolerance of crop trees? University of Freiburg. Göttinger Preis für Waldökosystemforschung**
20. Muhidin Seho 2014. Black Pine and Douglas Fir: Growth and phenotypic characteristics of different provenances: a contribution to the potential of exotic tree species under climate change. University of Freiburg.
21. Hendrik Stark 2014. Biomass production and nutrient cycling in widely spaced nurse crop systems. University of Freiburg.
22. Björn Hoppe 2015. Microbial diversity and community structure in deadwood of *Fagus sylvatica* L. and *Picea abies* (L.) H. Karst. University of Freiburg.
23. Juliane Schultze 2015. Nature Conservation of Strictly Protected Forest Reserves – An exemplary

- application in Germany. University of Freiburg.
24. Steffen Hermann 2017. Decomposition dynamics and carbon sequestration of downed coarse woody debris of *Fagus sylvatica*, *Picea abies* and *Pinus sylvestris*. University of Freiburg
  25. **Angela Luciana de Avila 2016. Recovery of a tropical rain forest over 30 years following silvicultural interventions. University of Freiburg. Thurn und Taxis Preis für die Forstwissenschaft.**
  26. Jörg Niederberger 2016. Bedeutung und Quantifizierung von Phosphorfraktionen unterschiedlicher Pflanzenverfügbarkeit in Waldböden. University of Freiburg
  27. **Valentina Vitali 2017. Comparative drought response of Douglas fir, Silver fir and Norway spruce along a climatic gradient. University of Freiburg. Göttinger Preis für Waldökosystemforschung**
  28. Felix Storch 2018. Influence of harvesting intensity on species and structural diversity of forests. University of Freiburg
  29. Adrian Danescu 2018. Structural diversity as a driver of growth dynamics in irregular, mixed forests. University of Freiburg

### **PhD supervision ongoing**

1. Jörg Kunz. The effects of droughts on growth and regeneration of rare tree species.
2. Adam Benneter. The effect of neighbourhood tree species diversity on crown development and stem quality.
3. Zequn Yu. The influence of tree species diversity on the nutrition of trees
4. Georgios Skiaderesis. The influence of ground water extraction on growth of oak trees.
5. Anja Bindewald. Evaluating risks and potentials of introduced tree species.
6. Janna Wambsganss. Fine-root soil exploration and exploitation in mixed and monospecific forest stands across Europe.
7. Klaus Kremer. Restoration of native temperate forests from exotic tree plantations in southern Chile.
8. Dai Saito. The influence of nutrient availability on the relationship between species richness, functional diversity and productivity in juvenile tree communities
9. Thomas Asbeck. Retention of structural elements in selectively used forests
10. Tobias Modrow. Erhalt trockenstresstoleranter und biodiverser Wälder mittels natürlicher Verjüngung der Traubeneiche (*Quercus petraea*)
11. Josef Großmann. Entstehung und Entwicklungsdauer von Mikrohabitaten auf Einzelbaum- und Bestandesebene
12. Florian Schnabel. Does neighbourhood tree species diversity stabilize and enhance growth in a tropical tree diversity experiment? Universität Leipzig