



## Europass Curriculum Vitae

### Personal information

Surname(s) / First name(s) **KINDERMANN Georg**

Address(es) International Institute for Applied Systems Analysis (IIASA)  
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Nationality Austria

Date of birth 15. June. 1973

Gender male

### Work experience

Dates 1997–2007

Occupation or position held Research Assistant

Main activities and responsibilities Experimental plot measurement, creating a regeneration model, programming and tuning a distance dependent forest growth model, calculating shape functions of stems.

Name and address of employer BOKU, Institute of forest growth and yield. Peter Jordan-Straße 82, A-1190 Wien, Austria

Dates 2005-Present

Occupation or position held Research Assistant

Main activities and responsibilities Forest growth and yield modeling, Potential biomass supply estimates, Current biomass mapping

Name and address of employer International Institute for Applied Systems Analysis (IIASA)  
Schlossplatz 1, A-2361 Laxenburg, Austria

Dates 2007-Present

Occupation or position held Research Assistant

Main activities and responsibilities Tree ring chronology analysis and data processing, Distance dependent and independent individual tree growth model development.

Name and address of employer Federal Research and Training Centre for Forests, Natural Hazards and Landscape, Seckendorff-Gudent-Weg 8, A-1131 Wien

### Education and training

Dates	1993
Title of qualification awarded	High school - Woodtechnology
Name and type of organisation providing education and training	HTBLuVa Mödling
Dates	2000
Title of qualification awarded	Master of Forestry
Name and type of organisation providing education and training	University of natural Resources and applied Life Sciences (BOKU), Vienna
Dates	2004
Title of qualification awarded	Ph.D.
Name and type of organisation providing education and training	University of natural Resources and applied Life Sciences (BOKU), Vienna
Dates	2004
Title of qualification awarded	Teacher and Advisor training
Name and type of organisation providing education and training	Hochschule für Agrar- und Umweltpädagogik, Vienna

### **Personal skills and competences**

Mother tongue(s)	<b>German</b>
Other language(s)	<b>English</b>

## Selected Scientific Publications

- Kindermann Georg Erich (1998): Die Flächenanteile der Baumarten. Master thesis, Universität für Bodenkultur, 45; Wien.
- Hasenauer, H., Kindermann, G., Merkl, D. (2000): Zur Schätzung der Verjüngungssituation in Mischbeständen mit Hilfe Neuraler Netze. Forstw. Cbl., 119, 350-366.
- Kindermann, G., Hasenauer, H., Gasch, J. (2002): Ankommen und Wachstum von Naturverjüngung in Mischbeständen. Cbl. ges. Forstw., 119, 2, 159-186.
- Hasenauer, H., Kindermann, G. (2002): Methods for assessing regeneration establishment and height growth in uneven-aged mixed species stands. Forestry, 75, 4, 385-394.
- Kindermann Georg Erich (2004): Wachstumssimulation in Mischbeständen. Ph.D., Universität für Bodenkultur, 146; Wien.
- Kanzian, C., Kindermann, G. (2005): Energieholzpotenzial aus dem Wald überschätzt? Österreichische Forstzeitung, 116, 8, 12-13.
- Kindermann, G., Hasenauer H. (2005): Zusammenstellung der Oberhöhenfunktionen für die wichtigsten Baumarten in Österreich. Centralblatt für das gesamte Forstwesen / Austrian Journal of Forest Science, 4, 122, 163-184.
- Hasenauer H., G. Kindermann and P. Steinmetz (2006): The tree growth model MOSES 3.0. In: Hasenauer H. (ed), Sustainable Forest Management: Growth models for Europe, Springer, Berlin, 64-70.
- Hasenauer, H., Kindermann, G. (2006): Modeling Regeneration in Even and Uneven-Aged Mixed Species Forests. In: Hasenauer H., Sustainable Forest Management, 167-193; Springer, Berlin Heidelberg Germany; ISBN 3-540-26098-6.
- Kindermann G.E., Obersteiner M., Rametsteiner E., McCallum I. (2006): Predicting the deforestation trend under different carbon-prices. Carbon Balance and Management, 1 (15), 1-17; ISSN 1750-0680.
- Kindermann, G., Hasenauer, H. (2007): Comparing basal area increment predictions resulting from yield tables versus MOSES. Austrian Journal of Forest Science Volume 124, Issue 1, January 2007, Pages 63-81
- O'Hara, K.L.a , Hasenauer, H.b , Kindermann, G. (2007): Sustainability in multi-aged stands: An analysis of long-term plenter systems. Forestry Volume 80, Issue 2, April 2007, Pages 163-181
- Kindermann, G., Obersteiner, M., Sohngen, B., Sathaye, J., Andrasko, K., Rametsteiner, E., Schlamadinger, B., Wunder, S., Beach, R. (2008): Global cost estimates of reducing carbon emissions through avoided deforestation. Proceedings of the National Academy of Sciences of the United States of America, 105 (30), pp. 10302-10307.
- Kindermann, G.E., McCallum, I., Fritz, S., Obersteiner, M. (2008): A global forest growing stock, biomass and carbon map based on FAO statistics. Silva Fennica, 42 (3), pp. 387-396.
- Kindermann G. (2009): Herleitung des jährlichen Zuwachses für Bäume deren BHD-Zuwachs nur für einen längeren Zeitraum bekannt ist. In: Jahrestagung 25.-27. Mai 2009, Ascona (Schweiz) / Deutscher Verband Forstlicher Forschungsanstalten, Tharandt, Deutschland. Sektion Ertragskunde: 182-190
- Kindermann G. (2010): Erste österreichweite Jahrringanalyse: Daten, Methoden und Ergebnisse, First tree ring analysis throughout Austria: Data, methods and results. BFW-Dokumentation, Wien, (11): 77 S
- Kindermann G. , 2010: Weiterentwicklung eines Kreisflächenzuwachmodells. Tagungsband 2010. Deutscher Verband Forstlicher Forschungsanstalten. Sektion Ertragskunde. Jahrestagung 17.-19. Mai 2010, Körbecke am Möhnesee/ Nagel, J. (Ed.):82-95
- Kindermann G., Kristöfel F. , 2010: Koordinaten, Kronen und Standfläche. BFW-Berichte, Wien, (143): 77-95
- Kindermann G. , 2010: Eine klimasensitive Weiterentwicklung des Kreisflächenzuwachmodells aus PrognAus. Centralblatt für das gesamte Forstwesen, Wien, 127(3): 147-178
- Kindermann G., Neumann M. , 2011: Zuwachsreaktionen auf Witterungsextreme. BFW-Praxisinformation, Wien, (24): 25-28
- Kindermann G.E. 2011: The development of a simple basal area increment model, Nature precedings. doi:10.1038/npre.2011.6301.1
- Huber, M.O., Eastaugh, C.S., Gschwantner, T., Hasenauer, H., Kindermann, G., Ledermann, T., Lexer, M.J., Rammer, W., Schörghuber, S., Sterba, H., 2013: Comparing simulations of three conceptually different forest models with National Forest Inventory data. Environmental Modelling and Software, 40, pp. 88-97.

- Kanzian, V.C., Kindermann, G., 2013: Assessment of the energy wood potenzial with national inventory data for lower Austria [Abschätzung des Energieholzpotenzials über nationale Inventurdaten am Beispiel Niederösterreichs] (2013) *Austrian Journal of Forest Science*, 130 (1), pp. 3-24.
- Kindermann G.E., Stefan Schörghuber, Tapio Linkosalo, Anabel Sanchez, Werner Rammer, Rupert Seidl and Manfred J Lexer, 2013: Potential stocks and increments of woody biomass in the European Union under different management and climate scenarios. *Carbon Balance and Management*, 8:2 (15), 1-17; ISSN 1750-0680, doi:10.1186/1750-0680-8-2.
- Kindermann G. 2015: Methoden zur Erstellung von Oberhöhenfächern. Tagungsband 2015. Deutscher Verband Forstlicher Forschungsanstalten. Sektion Ertragskunde. Jahrestagung 18.-20. Mai 2015, Kammerforst/Thüringen. ISSN 1432-2609 / Klädtke, J., Kohnle, U. (ed.): 143-152
- Kindermann G. 2016: Evaluation of growth functions for tree height modelling. *Austrian Journal of Forest Science*, 134 (4), pp. 353-376.
- Kindermann G., Ruhm W. and Schönauer H. 2017: Die Waldbauliche Behandlung der Esche. *BFW-Praxisinformation*, Wien, (43): 17-21.
- Kindermann G. E., Kristöfel F., Neumann M., Rössler G., Ledermann T. and Schueler S. 2018: 109 years of forest growth measurements from individual Norway spruce trees. *Scientific Data* volume 5, Article number: 180077, doi:10.1038/sdata.2018.77
- Kindermann G. E. 2018: Developing site index curves under changing site conditions. *Austrian Journal of Forest Science* (3), pp. 235-257
- Jandl R., Ledermann T. Kindermann G. Freudenschuss A., Gschwantner T., Weiss P.: Strategies for Climate-Smart Forest Management in Austria. *Forests* 9 (593). doi: 10.3390/f9100592
- Lapin K., Oettel J., Steiner H., Langmaier M., Sustic D., Starlinger F., Kindermann G., Frank G. 2019: Invasive alien plant species in unmanaged forest reserves, Austria. *NoeBiota* 48: 71-96. doi: 10.3897/neobiota.48.34741
- Oettel J., Lapin K., Kindermann G., Steiner H., Schweinzer K., Frank G., Essl F. 2020: Patterns and drivers of deadwood volume and composition in different forest types of the Austrian natural forest reserves. *Forest Ecology and Management* 463 (118016). doi: 10.1016/j.foreco.2020.118016
- Georg Kindermann 2021: Funktionen und Koeffizienten des Waldwachstumssimulators 3WME. *ResearchGate*. DOI: 10.13140/RG.2.2.27649.17767
- Danny AP Hooftman, James M Bullock, Laurence Jones, Felix Eigenbrod, José I Barredo, Matthew Forrest, Georg Kindermann, Amy Thomas, Simon Willcock 2022: Reducing uncertainty in ecosystem service modelling through weighted ensembles. *Ecosystem Services* 53.
- Robert Jandl, Thomas Ledermann, Georg Kindermann, Peter Weiss 2022: Soil Organic Carbon Stocks in Mixed-Deciduous and Coniferous Forests in Austria. *Front. For. Glob. Change*. DOI: 10.3389/ffgc.2021.688851
- Georg Kindermann 2022: Misch- oder Reinbestand? *ResearchGate*. DOI: 10.13140/RG.2.2.17736.60169/1
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- Kindermann, Georg, 2022; Kriterien und Hilfen bei der Baumartenwahl. 10.13140/RG.2.2.23226.98248.
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- Gvein, M.H., Hu, X., Næss, J.S., Watanabe, M.D.B., Cavalett, O., Malbranque, M., Kindermann, G. , & Cherubini, F, 2023; Potential of land-based climate change mitigation strategies on abandoned cropland. *Communications Earth & Environment* 4 (1) e39. 10.1038/s43247-023-00696-7.
- Willcock, S., Hooftman, D. A. P., Neugarten, R. A., Chaplin-Kramer, R., Barredo, J. I., Hickler, T., Kindermann, G., Lewis, A. R., Lindeskog, M., Martínez-López, J., & Bullock, J. M., 2023; Model ensembles of ecosystem services fill global certainty and capacity gaps. *Science Advances*, 9(14). 10.1126/sciadv.adf5492

Jandl, Robert, Foldal, Cecilie, Ledermann, Thomas, Kindermann, Georg, 2023; European Beech Forests in Austria—Current Distribution and Possible Future Habitat. *Forests*. 14. 2019. 10.3390/f14102019.

Kindermann, Georg, 2023; Estimating stem taper shape by using tree diameter, height and volume. 10.13140/RG.2.2.14456.21760.

Kindermann, Georg, Bauerhansl, Christoph, 2023; Estimating the Site Index using height increments observed from Aerial Images or Satellite. ResearchGate

Kindermann, Georg, 2023; Versuchsflächendesign zum Vergleich der Wuchsleistung verschiedener Baumarten. ResearchGate

Jandl, Robert; Haeler, Elena; Kindermann, Georg; Lapin, Katharina; Oettel, Janine; Schueler, Silvio, 2024; Management and biodiversity conservation in Central European forests. *Trees, Forests and People*. 17. 100601. 10.1016/j.tfp.2024.100601.

Kindermann, Georg, 2025; Estimating the stem volume of a tree by using section wise measured diameters. ResearchGate

Kindermann, G. E., 2025; Global Land / Water Mask Map with 0.3 arc sec. (10 m) Resolution [Data set]. Zenodo. [10.5281/zenodo.14899246](https://zenodo.org/record/14899246)

Frank, Georg; Harnack, Nastasja; Kindermann, Georg; Kovacs, Gyula; Senitz, Eckart; Steiner, Herfried, 2025; BFW-Bericht 154/2025 Projektbericht ReSynatWald -Forest Integrate Austria Entwicklung eines Referenzflächen-Systems zur wissenschaftlichen Quantifizierung naturnaher Waldbaumethoden in Österreich.

Kindermann, G. E., 2025; Global Tree Cover Map for the year 2020 with a resolution of 1 arc sec. (30m) [Data set]. Zenodo. [10.5281/zenodo.15129161](https://zenodo.org/record/15129161)

Kindermann, Georg, 2025; Fast-growing, straight-trunked black locust; Schnellwüchsige, geradschaftige Robinien. ResearchGate

Kraxner, F., Shchepashchenko, D., Kindermann, G., Krasovskiy, A., 2025; Forest Ecosystems Under Climate Change. In: *Ecological Connectivity of Forest Ecosystems*. Eds. Lapin, K., Oettel, J., Braun, M., & Konrad, H., pp. 115-122 Cham: Springer Nature Switzerland. ISBN 978-3-031-82206-3 10.1007/978-3-031-82206-3\_6.