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## Mag. Dr. rer. nat. Florian Hofhansl

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**Educational record**

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2011 – 2014	<b>PhD</b> Ecology, University of Vienna, Austria.
2005 – 2008	<b>MSc</b> Biology/Ecology, University of Vienna, Austria.
1998 – 2002	<b>BSc</b> Biotechnology, University of Life Sciences, Vienna, Austria
1997 – 1998	<b>Civil Service</b> at the Austrian Red Cross, 1030 Vienna, Austria.
1989 – 1997	<b>High-School</b> BRG-XIX, Krottenbachstrasse 11, 1190 Vienna, Austria.

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**Professional experience**

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2020 – present	Research Scholar, International Institute for Applied Systems Analysis (IIASA), Schlossplatz 1, A-2361 Laxenburg, Austria.
2018 – 2019	Postdoctoral Research Scholar, International Institute for Applied Systems Analysis (IIASA), Schlossplatz 1, A-2361 Laxenburg, Austria.
2016 – 2017	University Assistant (post-doc), Department of Botany & Biodiversity Research, University of Vienna, Austria.
2014 – 2015	University Assistant (post-doc), Coordenação de Dinâmica Ambiental, Instituto Nacional de Pesquisas da Amazônia (INPA), Manaus, AM, Brazil.
2011 – 2014	University Assistant (PhD thesis), Department of Microbiology & Ecosystem Science, University of Vienna, Austria.
2009 – 2011	Project Assistant (pre-doc), Department of Terrestrial Ecosystem Research, University of Vienna, Austria.
2008 – 2011	Project Assistant (pre-doc), Clean Air Commission, Austrian Academy of Sciences.
2005 – 2008	Project Assistant (MSc thesis), Commission for Interdisciplinary Ecological Studies, Austrian Academy of Sciences.

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**Scientific achievements**

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2020 – present	Member of the scientific steering committee of the AmazonFACE program coordinated by Coordenação de Dinâmica Ambiental, Instituto Nacional de Pesquisas da Amazônia (INPA), Manaus, AM, Brazil.
2005 – present	Member of the society for the promotion of the La Gamba Field Station, Costa Rica, hosted by the Department of Botany and Biodiversity Research, University of Vienna, Austria.

## Awards & Grants

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07/2022	IIASA Strategic Initiatives (SI) program, Laxenburg, Austria (€260,000).
09/2021	Horizon Europe Anbahnungsfinanzierung, Land NOE, Austria (€15,000).
07/2018	IIASA postdoctoral fellowship, IIASA, Laxenburg, Austria (€40,000).
07/2017	Young investigator award, University of Vienna, Austria (€7,000).
03/2014	PhD completion grant, University of Vienna, Austria (€3,000).
11/2012	Vienna Anniversary Foundation for Higher Education grant (€10,000).
02/2006	Promotional grant for excellent studies abroad, University of Vienna (€2,000).
07/2005	Research grant for studies abroad, University of Vienna (€700).

## Selected publications (for a complete list of articles please see the ORCID link on page 1)

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- Joshi, J., Stocker, B.D., **Hofhansl**, F., Zhou, S., Dieckmann, U., & Prentice, I.C. (2022). Towards a unified theory of plant photosynthesis and hydraulics. *Nature Plants* 10.1038/s41477-022-01244-5.
- Chacón-Madrigal, E., Avalos, G., **Hofhansl**, F., Coronado, I., Ferrufino-Acosta, L., MacVean, A., & Rodríguez, D. (2022). Biological invasions by plants in continental Central America. In: *Global Plant Invasions*. Eds. Clements, D., Upadhyaya, M., Joshi, S., & Ahrestha, A., Springer. ISBN 978-3-030-89684-3. 10.1007/978-3-030-89684-3.
- Hofhansl**, F., Chacón-Madrigal, E., Brännström, Å., Dieckmann, U., & Franklin, O. (2021). Mechanisms driving plant functional trait variation in a tropical forest. *Ecology and Evolution* 11, 3856-3870. 10.1002/ece3.7256.
- Franklin, O., Harrison, S.P., Dewar, R., Farrior, C.E., Brännström, Å., Dieckmann, U., Pietsch, S., Falster, S., Cramer, W., Loreau, M., Wang, H., Mäkelä, A., Rebel, K.T., Meron, E., Schymanski, S.J., Rovenskaya, E., Stocker, B.D., Zaehle, S., Manzoni, S., van Oijen, My, Wright, I.J., Ciais, P., van Bodegom, P.M., Peñuelas, J., **Hofhansl**, F., Terrer, C., Soudzilovskaia, N.A., Midgley, G., & Prentice, I.C. (2020). Organizing principles for vegetation dynamics. *Nature Plants* 6, 444-453. 10.1038/s41477-020-0655-x.
- Hofhansl**, F., Chacón-Madrigal, E., Fuchslueger, L., Jenking, D., Morera-Beita, A., Plutzer, C., Silla, F., Andersen, K.M., Buchs, D., Dullinger, S., Fiedel, K., Franklin, O., Hietz, P., Huber, W., Quesada, C.A., Rammig, A., Schrod, F., Vincent, A.G., Weissenhofer, A., & Wanek, W. (2020). Climatic and edaphic controls over tropical forest diversity and vegetation carbon storage. *Scientific Reports* 10, e5066. 10.1038/s41598-020-61868-5.
- Fleischer, K., Rammig, A., De Kauwe, M.G., Walker, A.P., Domingues, T.F., Fuchslueger, L., Garcia, S., Goll, D.S., Grandis, A., Jiang, M., Haverd, V., **Hofhansl**, F., Holm, J.A., Kruijt, B., Leung, F., Medlyn, B.E., Mercado, L.M., Norby, R.J., Pak, B., von Randow, C., Quesada, C.A., Schaap, K.J., Valverde-Barrantes, O.J., Wang, Y.-P., Yang, X., Zaehle, S., Zhu, Q., & Lapola, D.M. (2019). Amazon forest response to CO<sub>2</sub> fertilization dependent on plant phosphorus acquisition. *Nature Geoscience* 12, 736-741. 10.1038/s41561-019-0404-9.
- Morera-Beita, A., Sánchez, D., Wanek, W., **Hofhansl**, F., Werner, H., Chacón-Madrigal, E., Montero-Muñoz, J.L., & Silla, F. (2019). Beta diversity and oligarchic dominance in the tropical forests of Southern Costa Rica. *Biotropica* 51 (2), 117-128. 10.1111/btp.12638.
- Pereira, I., do Nascimento, H., Vicari, M., Disney, M., DeLucia, E., Domingues, T., Kruijt, B., Lapola, D., Meir, P., Norby, R., Ometto, J., Quesada, C., Rammig, A., & **Hofhansl**, F. (2019). Performance of Laser-Based Electronic Devices for Structural Analysis of Amazonian Terra-Firme Forests. *Remote Sensing* 11 (5), e510. 10.3390/rs11050510.
- Hofhansl**, F., Chacón-Madrigal, E., Morera, A., Silla, F., Huber, W., Weissenhofer, A., & Wanek, W. (2019). Diversity and composition of tropical forest plant communities in the Golfo Dulce region. In: *Acta ZooBot Austria*. pp. 31-46 Vienna, Austria: Zoologisch-Botanische Gesellschaft in Österreich. ISBN 978-3-901294-19-8.

Moser, D., Lezner, B., Weigelt, P., Dawson, W., Kreft, H., Pergl, J., Pysek, P., van Kleunen, M., Winter, M., Capinha, C., Cassey, P., Dullinger, S., Economo, E.P., Garcia-Diaz, P., Guenard, B., **Hofhansl**, F., Mang, T., Seebens, H., & Essl, F. (2018). Remoteness promotes biological invasions on islands worldwide. *Proceedings of the National Academy of Sciences* 115 (37), 9270- 9275. 10.1073/pnas.1804179115.

### **Selected talks (for a complete list of presentations please see the ORCID link on page 1)**

- Hofhansl**, F. (2022). Amazon forest responses to projected climate change, elevated CO<sub>2</sub> and biodiversity loss. In: Annual Meeting of the *British Ecological Society (BES)*, 18-21 December 2022, Edinburgh, Scotland.
- Hofhansl**, F. (2022). Biodiversity controls ecosystem functioning and associated services in a geomorphologic heterogeneous tropical forest in southwestern Costa Rica. In: 58th annual conference meeting of the *Association for Tropical Biology and Conservation (ATBC)*, July 10-14, 2022.
- Franklin, O., Fransson, P., **Hofhansl**, F., & Joshi, J. (2022). Plants maximize the conductive efficiency of the xylem. In: *European Geosciences Union (EGU) General Assembly 2022*, 23-27 May 2022, Vienna.
- Valverde Barrantes, O.J., Oblitas, E., Lugli, L.F., Fuchslueger, L., Cordeiro, A.L., Schaap, K., Andersen, K.M., Garcia, S., Grandis, A., **Hofhansl**, F., Hoosbeek, M., Norby, R., Hartley, I.P., Lapola, D.M., & Quesada, B. (2021). Lagging Response of Belowground Functional Traits to Environmental Cues in a Mature Amazonian Tropical Rainforest. In: *AGU Fall Meeting*, 13-17 December 2021.
- Hofhansl**, F., Chacon-Madriral, E., & Franklin, O. (2021). Mechanisms driving plant functional trait variation in a tropical forest. In: *Ecology Across Borders 2021*, 9-15 December 2021.
- Joshi, J., Stocker, B., **Hofhansl**, F., Zhou, S., Brännström, Å., Prentice, I., & Dieckmann, U. (2021). Predicting eco-evolutionary adaptations of plants to drought and rainfall variability. DOI:10.5194/egusphere-egu21-11142. In: *European Geosciences Union (EGU) General Assembly 2021*, 19-30 April 2021.
- Hofhansl**, F., Huber, W., Weissenhofer, A., Wanek, W., & Franklin, O. (2020). Local-scale and spatially explicit response of tropical forests to climate change. DOI:10.5194/egusphere-egu2020-10396. In: *European Geosciences Union (EGU) General Assembly 2020*, 4-8 May 2020, Vienna, Austria.
- Hofhansl**, F., Chacon-Madriral, E., Brännström, Å., Dieckmann, U., & Franklin, O. (2019). Partitioning of plant functional trait variation into phenotypic plasticity and neutral components reveals functional differences among neotropical tree species. In: *AGU Fall Meeting*, 9-13 December 2019, San Francisco, USA.
- Pereira, I.S., do Nascimento, H.E.M., Vicari, M.B., Disney, M., DeLucia, E.H., Domingues, T., Kruijt, B., Lapola, D., Meir, P., Norby, R.J., Ometto, J., Quesada, C.A., Rammig, A., & **Hofhansl**, F. (2019). Performance of laser-based electronic devices for structural analysis of Amazonian Terra-Firme forest. In: *56th Annual conference meeting of the Association for Tropical Biology and Conservation*, July 30-August 03, 2019.
- Hofhansl**, F., Chacón-Madriral, E., Brännström, Å., Dieckmann, U., & Franklin, O. (2019). The role of phenotypic plasticity for plant functional traits in tropical forests. In: *European Geosciences Union (EGU) General Assembly 2019*, 7–12 April 2019, Vienna, Austria.