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Born December 6, 1978, Vienna, Austria.

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Educational record

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

Professional experience

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.

Scientific achievements

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

- 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).

Publications (Peer-reviewed)

- 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* 10.1002/ece3.7256.
- Janssen, T., van der Velde, Y., **Hofhansl**, F., Luysaert, S., Naudts, K., Driessen, B., Fleischer, K. & Dolman, H. (2021). *Drought effects on leaf fall, leaf flushing and stem growth in Neotropical forest; reconciling remote sensing data and field observations. Biogeosciences Discussions* 10.5194/bg-2021-30.
- Hofhansl**, F., Chacón-Madrigal, E., Fuchslueger, L. et al. (2020). Climatic and edaphic controls over tropical forest diversity and vegetation carbon storage. *Scientific Reports* 10, 5066. doi:10.1038/s41598-020-61868-5.
- Franklin, O., Harrison, S. P., Dewar, R., Fariior, C. E., Brännström, Å., Dieckmann, U., **Hofhansl**, F., et al. (2020). Organizing principles for vegetation dynamics. *Nature Plants*, 6 (5), 1–10. <http://doi.org/10.1038/s41477-020-0655-x>.
- Joshi, J., Stocker, B. D., **Hofhansl**, F., Zhou, S., Dieckmann, U., & Prentice, I. C. (2020). Towards a unified theory of plant photosynthesis and hydraulics. *bioRxiv*, 2020.12.17.423132. <http://doi.org/10.1101/2020.12.17.423132>.
- Van Langenhove, L., Verryckt, L.T., Bréchet, L., Courtois, E.A., Stahl, C., **Hofhansl**, F., Bauters, M., Sardans, J., et al. (2020). Atmospheric deposition of elements and its relevance for nutrient budgets of tropical forests. *Biogeochemistry* 10.1007/s10533-020-00673-8.
- Schepaschenko D, Chave J, Phillips OL, Lewis SL, Davies SJ, Réjou-Méchain M, Sist P, Scipal K, ... **Hofhansl** F, et al. 2019. The Forest Observation System, building a global reference dataset for remote sensing of forest biomass. *Scientific Data* 6 (1): e198. DOI:10.1038/s41597-019-0196-1.
- Fleischer K, Rammig A, De Kauwe MG, Walker AP, Domingues TF, Fuchslueger L, Garcia S, Goll DS, ... **Hofhansl** F, et al. 2019. Amazon forest response to CO2 fertilization dependent on plant phosphorus acquisition. *Nature Geoscience* DOI:10.1038/s41561-019-0404-9.
- Fuchslueger L, Wild B, Mooshammer M, Takriti M, Kienzl S, Knoltsch A, **Hofhansl** F, Bahn M, et al. 2019. Microbial carbon and nitrogen cycling responses to drought and temperature in differently managed mountain grasslands. *Soil Biology and Biochemistry* 135: 144-153. DOI:10.1016/j.soilbio.2019.05.002.
- Prommer J, Walker T, Wanek W, Braun J, Zezula D, Hu Y, **Hofhansl** F, & Richter A. 2019. Increased microbial growth, biomass and turnover drive soil organic carbon accumulation at higher plant diversity. *Global Change Biology* 00:1–13. DOI:10.1111/gcb.14777
- Rabl D, Gottsberger B, Brehm G, **Hofhansl** F, & Fiedler K. 2019. Moth assemblages in Costa Rica rain forest mirror small-scale topographic heterogeneity. *Biotropica* DOI:10.1111/btp.12677.
- Morera-Beita A, Sánchez D, Wanek W, **Hofhansl** F, Werner H, Chacón-Madrigal E, Montero-Muñoz JL, & Silla F. 2019. Beta diversity and oligarchic dominance in the tropical forests of Southern Costa Rica. *Biotropica* 51 (2): 117-128. DOI:10.1111/btp.12638.
- Pereira I, do Nascimento H, Vicari M, Disney M, DeLucia E, Domingues T, Kruijt B, Lapola D, & **Hofhansl**, 2019. Performance of Laser-Based Electronic Devices for Structural Analysis of Amazonian Terra-Firme Forests. *Remote Sensing* 11 (5): e510. DOI:10.3390/rs11050510.

- Rammig A, Heinke J, **Hofhansl** F, Verbeeck H, Baker TR, Christoffersen B, Ciais P, De Deurwaerder H, et al. 2018. A generic pixel-to-point comparison for simulated large-scale ecosystem properties and ground-based observations: an example from the Amazon region. *Geoscientific Model Development* 11 (12): 5203-5215. DOI:10.5194/gmd-11-5203-2018.
- Moser D, Lezner B, Weigelt P, Dawson W, Kreft H, Pergl J, Pysek P, van Kleunen M, ... **Hofhansl**, F, et al. 2018. Remoteness promotes biological invasions on islands worldwide. *Proceedings of the National Academy of Sciences* 115 (37): 9270- 9275. DOI:10.1073/pnas.1804179115.
- Rammig, A., Heinke, J., **Hofhansl**, F., Verbeeck, H., Baker, T. R., Christoffersen, B., Ciais, P., De Deurwaerder, H., Fleischer, K., Galbraith, D., Guimberteau, M., Huth, A., Johnson, M., Kruijt, B., Langerwisch, F., Meir, P., Papastefanou, P., Sampaio, G., Thonicke, K., von Randow, C., Zang, C., and E. Rödiger 2018. A generic pixel-to-point comparison for simulated large-scale ecosystem properties and ground-based observations: an example from the Amazon region *Geosci. Model Dev. Discuss.*, <https://doi.org/10.5194/gmd-2018-182>
- Djukic, I. , Kepfer-Rojas, S. , Schmidt, I. K. , Larsen, K. S. , Beier, C. , Berg, B. , Verheyen, K. , Caliman, A. , Paquette, A. , Gutiérrez-Girón, A. , Humber, A. , Valdecantos, A. , Petraglia, A. , Alexander, H. , Augustaitis, A. , Saillard, A. , Fernández, A. C. R. , Sousa, A. I. , Lillebø, A. I. , da Rocha Gripp, A. ... **Hofhansl**, F et al. 2018. Early stage litter decomposition across biomes *Science of the Total Environment*. 628-629, 1369-1394
- M. Mooshammer, F. **Hofhansl**, A. H. Frank, W. Wanek, I. Hämmerle, S. Leitner, J. Schneckner, B. Wild, M. Watzka, K. M. Keiblinger, S. Zechmeister-Boltenstern, & A. Richter 2017. Decoupling of microbial carbon, nitrogen, and phosphorus cycling in response to extreme temperature events *Sci. Adv.* 3, e1602781.
- Wolfram Adlassnig, Yasmin S. Weiss, Stefan Sassmann, Georg Steinhauser, Florian **Hofhansl**, Nils Baumann, Irene K. Lichtscheidl, Ingeborg Lang 2016. The copper spoil heap Knappenberg, Austria, as a model for metal habitats – Vegetation, substrate and contamination *Science of The Total Environment* DOI: 10.1016/j.scitotenv.2016.04.179
- Hofhansl**, F., Andersen, K.M., Fleischer, K., Fuchslueger, L., Rammig, A., Schaap, K. J., Valverde-Barrantes O. J. and D. M. Lapola. 2016. Amazon forest ecosystem responses to elevated atmospheric CO₂ and alterations in nutrient availability: filling the gaps with model-experiment integration *Front. Earth Sci.* doi: 10.3389/feart.2016.00019
- Staudinger, C., Mehmeti-Tershani, V., Gil-Quintana, E., Gonzalez, E.M., **Hofhansl**, F., Bachmann, G., and S. Wienkoop. 2016. Evidence for a rhizobia-induced drought stress response strategy in *Medicago truncatula* *Journal of proteomics* DOI:10.1016/J.JPROT.2016.01.006
- Sassmann, S., Weidinger, M., Adlassnig, W., **Hofhansl**, F., Bock, B., and I. Lang. 2015. Zinc and copper uptake in *Physcomitrella patens*: Limitations and effects on growth and morphology *Environmental and Experimental Botany* DOI:10.1016/J.ENVEXPBOT.2015.05.003
- Taylor, P., G. Asner, K. Dahlin, C. Anderson, D. Knapp, R. Martin, J. Mascaró, R. Chazdon, R. Cole, W. Wanek, F. **Hofhansl**, E. Malavassi, B. Vilchez-Alvarado, and A. Townsend. 2015. Landscape-Scale Controls on Aboveground Forest Carbon Stocks on the Osa Peninsula, Costa Rica *PLoS ONE* 10:e0126748–18.
- Hofhansl** F, Schneckner J, Singer G, Wanek W. 2015. New insights into mechanisms driving carbon allocation in tropical forests *New Phytologist* 205, 137–146.
- Hofhansl** F, Kobler J, Ofner J, Drage S, Pölz EM, Wanek W. 2014. Sensitivity of tropical forest aboveground productivity to climate anomalies *Global Biogeochemical Cycles* 28, 1437–1454.
- Mooshammer M, Wanek W, Hämmerle I, Fuchslueger L, **Hofhansl** F, Knoltsch A, Schneckner J, Takriti M, Watzka M, Wild B, et al. 2014. Adjustment of microbial nitrogen use efficiency to carbon:nitrogen imbalances regulates soil nitrogen cycling *Nature Communications* 5, p. 1–7.
- Prommer J, Wanek W, **Hofhansl** F, Trojan D, Offre P, et al. 2014. Biochar Decelerates Soil Organic Nitrogen Cycling but Stimulates Soil Nitrification in a Temperate Arable Field Trial *PLoS ONE* 9(1): e86388. doi:10.1371/journal.pone.0086388
- Schneckner, J., Wild, B., **Hofhansl** F, et al. 2014. Effects of soil organic matter properties and microbial community composition on enzyme activities in cryoturbated arctic soils *PLoS ONE* 9(4): e94076. doi:10.1371/journal.pone.0094076

- Wild, B., Schnecker, J., Barta, J., Capek, P., Guggenberger, G., **Hofhansl**, F., Kaiser, C., Lashchinsky, N., Mikutta, R., Mooshammer, M., Santruckova, H., Shibistova, O., Urich, T., Zimov, S. A. & Richter, A. 2013. Nitrogen dynamics in Turbic Cryosols from Siberia and Greenland Soil Biology and Biochemistry. 67, p. 85-93.
- Adlassnig, W., Sassmann, S., Lendl, T., Wernitznig, S., **Hofhansl**, F., Lang, I. & Lichtscheidl-Schultz, I. 2013. Metal contamination and retention of the former mining site Schwarzwand (Salzburg, Austria) Applied Geochemistry. 35, p. 196-206.
- Hofhansl**, F., Wanek, W., Drage, S., Huber, W., Weissenhofer, A. & Richter, A. 2012. Controls of hydrochemical fluxes via stemflow in tropical lowland rainforests: Effects of meteorology and vegetation characteristics Journal of Hydrology. 452-453, p. 247-258.
- Mooshammer, M., Wanek, W., Schnecker, J., Wild, B., Leitner, S., **Hofhansl**, F., Blöchl, A., Nunes Cornelio Hämmerle, I., Frank, A., Fuchslueger, L., Keiblinger, K. M., Zechmeister-Boltenstern, S. & Richter, A. 2012. Stoichiometric controls of nitrogen and phosphorus cycling in decomposing beech leaf litter Ecology. 93, 4, p. 770-782.
- Hofhansl**, F., Wanek, W., Drage, S., Huber, W., Weissenhofer, A. & Richter, A. 2011. Topography strongly affects atmospheric deposition and canopy exchange processes in different types of wet lowland rainforest, Southwest Costa Rica Biogeochemistry: an international journal. 106, 3, p. 371-396.

Book sections (Peer-reviewed)

- Hofhansl**, F., Chacon-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 Osterreich. ISBN 978-3-901294-19-8
- Schulze, C., Freudmann, A., Friesenbichler, K., Gallmetzer, N., Binz, H., **Hofhansl**, F., Mollik, P., Reyes Páez, A. F., Riedl, I. G., Schneeweih, S. & Seaman, B. 2013. Biodiversität von Landschaftselementen im biologischen Korridor und den Randbereichen des Regenwaldes 20 Jahre Tropenstation La Gamba, Costa Rica. Verein zur Förderung der Tropenstation La Gamba, Costa Rica.
- Hofhansl**, F. & Schneeweih, S. 2008. Banderillas: Effects of deforestation on dragonflies (Insecta, Odonata) in the Pacific lowland of Costa Rica (survey) In: *Natural and Cultural History of the Golfo Dulce Region, Costa Rica*. Biologiezentrum Linz, Stapfia 80, p. 237-248.
- Wanek, W., Drage, S., Hinko, N., **Hofhansl**, F., Pözl, E.M., Ratzler, A. & Richter, A. Primary production and nutrient cycling in lowland rainforests of the Golfo Dulce region 2008. In: *Natural and Cultural History of the Golfo Dulce Region, Costa Rica*. Biologiezentrum Linz, Stapfia 80, p. 155-178.

Conference Talks & Poster Presentations

- Eco-evolutionary responses of plant communities to drought and rainfall variability, EGU General Assembly 2021, online, 19–30 Apr 2021, EGU21-11142, <https://doi.org/10.5194/egusphere-egu21-11142>, 2021.
- Measuring change on the ground. In: *CCI Biomass Change Workshop (Webinar)*, October 19–November 6 2020. <http://cci-biomass-change-workshop.com>
- 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.
- Partitioning of plant functional trait variation into phenotypic plasticity and neutral components reveals functional differences among neotropical tree species. Annual fall meeting of the American Geoscience Union AGU 2019, San Francisco, USA.

- The role of phenotypic plasticity for plant functional traits in tropical forests. Geophysical Research Abstracts Vol. 21, EGU2019-2402, 2019, EGU General Assembly, Vienna, Austria.
- 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.
- Sensitivity of tropical aboveground carbon stocks to climate anomalies. Geophysical Research Abstracts Vol. 20, EGU2018-16094, 2018, EGU General Assembly, Vienna, Austria.
- Amazon forest responses to elevated atmospheric CO₂. Conference meeting of the Association of tropical biodiversity and conservation ATBC 2017, Montpellier, France.
- A high-resolution monitoring network investigating tropical stem growth. Annual fall meeting of the American Geoscience Union AGU 2016, San Francisco, USA.
- Sensitivity of tropical lowland net primary production to climate anomalies Geophysical Research Abstracts Vol. 16, EGU2014-10585, 2014, EGU General Assembly, Vienna, Austria.
- Mechanisms driving carbon allocation in tropical rainforests Geophysical Research Abstracts Vol. 16, EGU2014-10223, 2014, EGU General Assembly, Vienna, Austria.
- Bioremediation by Phormidium biofilms: A case study from a historic mine site 08 Oct 2013, Eurobiotech, Kraków, Poland.
- Controls on aboveground net primary production of tropical rainforests 24 Jun 2013, Association for Tropical Biology and Conservation Conference, San José, Costa Rica.
- The importance of small gallery forest strips as biological corridors for forest species in a human-dominated landscape in southern Costa Rica 27 Jun 2013, Association for Tropical Biology and Conservation Conference, San José, Costa Rica.
- Climatic controls on aboveground net primary productivity and the partitioning between canopy and wood production 03 Apr 2013, Association for Tropical Biology and Conservation Conference, Vienna, Austria.
- Climatic controls on aboveground net primary production of tropical lowland rainforests 07 Dec 2012, American Geoscience Union, San Francisco, USA.
- Do we need to account for variable microbial nitrogen-use efficiency in biogeochemical models? 03 Dec 2012, American Geoscience Union, San Francisco, USA.
- Climatic controls on seasonal and inter-annual variations in aboveground net primary productivity of tropical lowland rainforests, Southwest Costa Rica 12 Mar 2012, Science Day of the Faculty of Life Sciences, Vienna, Austria.
- Organic nitrogen cycling during organic matter decomposition 14 Aug 2011, 21th Annual V.M. Goldschmidt Conference. Prague, Czech Republic. Mineralogical Magazine 75:1495.
- Fog collection and deposition modelling – EcoCatch Lunz 1 Jul 2010, 5th International Conference on Fog, Fog Collection and Dew, Münster, Germany.
- Topography strongly affects atmospheric deposition & canopy exchange processes in different types of wet lowland rainforest, Southwest Costa Rica 3 Jun 2010, 18th Conference of the Austrian Society of Plant Biology, Illmitz, Austria.
- Impact of climate change on the performance of tropical lowland forests in SW Costa Rica 27 Jul 2009, Association for Tropical Biology and Conservation Conference, Marburg, Germany.
- The importance of small gallery forest strips for maintaining biodiversity – case studies from a human-dominated landscape in southern Costa Rica 27 Jul 2009, Association for Tropical Biology and Conservation Conference, Marburg, Germany.
- The use of isotope measurements for the separation of discharge components during hydrological events in a riparian forest ecosystem, Lunz/See, Austria. 20 Nov 2009, 9th Austrian Stable Isotope User Group Meeting, Innsbruck, Austria.