

# FLORIAN GOLLNOW - CURRICULUM VITAE

FLORAVÄGEN 9, 141 40 HUDDINGE, SWEDEN

FLORIANGOLLNOW@SEI.ORG

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## EDUCATION

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|-------------|--|
| 2012 - 2018 | <b>PH.D. GEOGRAPHY</b><br>Applied Geoinformation Science Lab, Geography Department, Humboldt-Universität zu Berlin, Berlin, Germany<br>Theses: Land-use change and land-use displacement dynamics in Mato Grosso and Pará, Brazilian Amazon (DOI: <a href="https://doi.org/10.18452/18732">https://doi.org/10.18452/18732</a> ), Supervised by Prof. Tobia Lakes |
| 2003 - 2012 | <b>DIPLOMA (MASTER EQUIVALENT) GEOGRAPHY</b><br>Geography Department, Humboldt-Universität zu Berlin, Berlin, Germany<br>Theses: Forest Fragmentation in African Protected Ecosystems, Supervised by Prof. Tobias Kümmerle   |

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## PROFESSIONAL APPOINTMENTS

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| 08/2023           | <b>Data Scientist</b> , Stockholm Environmental Institute (SEI),<br><b>Transparency for Sustainable Economies (TRASe)</b>  |
| 11/2022 - 07/2023 | <b>Postdoctoral Researcher</b> , Conservation and Development Lap,<br>Geography Department, Cambridge University<br><b>Tradeoffs and spillovers of forest-focused soy supply chain governance in Brazil</b> (UKRI GCRF Trade Hub)<br><b>Land use change and carbon cycles in the Caucasus</b> (NASA) |
| 06/2020 - 09/2022 | <b>Postdoctoral Researcher</b> , Environmental Policy Lab, ETH Zürich &<br>Department of Earth and Environment, Boston University<br><b>Companies zero-deforestation commitments in food commodities</b> (NSF)<br><b>Land use change and carbon cycles in the Caucasus</b> (NASA)                    |
| 05/2018 - 06/2020 | <b>Postdoctoral Fellow</b> , National Socio Environmental Synthesis Center (SESYNC), University of Maryland<br><b>Evaluating companies zero-deforestation commitments in food commodities</b> (NSF)  |
| 10/2017 - 03/2018 | <b>Postdoctoral Researcher</b> , Applied Geoinformation Science Lab,<br>Geography Department, Humboldt-Universität zu Berlin<br><b>Land-prices and agricultural change in Brandenburg, Germany</b> (DFG)   |
| 03/2017 - 09/2017 | <b>Guest Lecturer &amp; Guest Researcher</b> , Applied Geoinformation Science Lab, Geography Department, Humboldt-Universität zu Berlin<br><b>Head of the Applied Geoinformation Science Lab</b>   |

- 11/2016 - 12/2016 **Research Associate**, Farm Management Group, Department of Agricultural Economics & Applied Geoinformation Science Lab, Geography Department, Humboldt-Universität zu Berlin  
**Land-prices and agricultural change in Brandenburg, Germany** (DFG)
- 10/2011 - 08/2016 **Research Associate**, Applied Geoinformation Science Lab, Geography Department, Humboldt-Universität zu Berlin  
**Evaluating land use displacement and land use change in Southern Amazonia** (BMBF)

#### PUBLICATIONS

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| SUBMITTED | Levers, C., Piquer-Rodríguez, M., <b>Gollnow, F.</b> , Baumann, M., Camino M., Gasparri, N.I., Gavier-Pizarro, G. I., le Polain de Waroux, Y., Müller, D., Nori, J., Plötzschner, F., Romero-Muñoz, A., Kuemmerle, T. What is still at stake in the Gran Chaco? Social-ecological impacts of alternative land-system futures in a global deforestation hotspot |
| 2024      | Cortner, O., Chen, S., Olofsson, P., <b>Gollnow, F.</b> , Torchinava, P., Garrett R. Exploring natural and social drivers of forest degradation in post-Soviet Georgia. <i>Global Environmental Change</i>   |
| 2022      | Gollnow, F., Cammelli, F., Carlson, K. M., & Garrett, R. D. Gaps in adoption and implementation limit the current and potential effectiveness of zero-deforestation supply chain policies for soy. <i>Environmental Research Letters</i>   |
| 2022      | Villoria, N. B., Garrett, R. D., Gollnow, F., & Carlson, K. M. Leakage does not fully offset soy supply-chain efforts to reduce deforestation in Brazil. <i>Nature Communications</i>  |
| 2022      | Garrett, R., Grabs, J., Cammelli, F., <b>Gollnow, F.</b> , Levy, S. Should payments for environmental services be used to implement zero-deforestation supply chain policies? The case of soy in the Brazilian Cerrado. <i>World Development</i>   |
| 2021      | Vijay V., Field, C.R., <b>Gollnow, F.</b> , Jones, K.K. Using internet search data to understand information seeking behavior for health and conservation topics during the COVID-19 pandemic. <i>Biological Conservation</i>  |
| 2021      | Garrett, R., Levy, S., <b>Gollnow, F.</b> , Hodel, L., Rueda, X. Have food supply chain policies improved forest conservation and rural livelihoods? A systematic review. <i>Environmental Research Letters</i>  |
| 2021      | Enoguanbhor, E.C., <b>Gollnow, F.</b> , Walker, B.B. , Nielsen, J.O., Lakes, T. Key challenges for land use planning strategies and their environmental assessments in the Abuja city-region, Nigeria. <i>Land</i>   |
| 2021      | Hissa, L.B.V., Garcia Marquez, J.R., <b>Gollnow, F.</b> , Lakes, T. Enhancing synergies for effective large-scale forest restoration in Mato Grosso, Brazilian Amazon, In: Hissa, L.B.V. From deforestation to forest  |

recovery: perspectives for the Amazon under the rule of the Brazilian Forest Code

- 2021 Hissa, L.B.V., **Gollnow, F.**, Mueller, H., Lakes, T. Land tenure diversity and forest cover change in a deforestation frontier in Brazilian Amazonia. In: Hissa, L.B.V. From deforestation to forest recovery: perspectives for the Amazon under the rule of the Brazilian Forest Code
- 2020 Enoguanbhor, E.C., **Gollnow, F.**, Walker, B.B. , Nielsen, J.O., Lakes, T. Simulating urban land expansion in the context of land use planning in the Abuja city-region, Nigeria. *Geojournal*
- 2019 Hissa, L.B.V., Aguiar, A., Camargo, R., Santos de Lima, L., **Gollnow, F.**, Lakes, T. Regrowing forests contribution to law compliance and carbon storage in private properties of the Brazilian Amazon. *Land Use Policy* (88), 104-163
- 2019 Enoguanbhor, E.C., **Gollnow, F.**, Nielsen, J.O., Lakes, T., Walker, B.B. Land Cover Change in the Abuja City-Region, Nigeria: Integrating GIS and Remotely Sensed Data to Support Land Use Planning. *Sustainability* (11), 1313
- 2019 Rufin, P., **Gollnow, F.**, Müller, D., Hostert, P. Synthesizing dam-induced land system change. *Ambio* 48(10), 1183-1194
- 2018 **Gollnow, F.**, Hissa, L.B.V., Rufin, P., Lakes, T. Property-level direct and indirect deforestation for soybean production in the Amazon region of Mato Grosso, Brazil. *Land Use Policy* (78), 377–385
- 2018 Schägner, J.P., Brander, L., Paracchini, M.L., Maes, J., **Gollnow, F.**, Bertzky, B. Spatial dimensions of recreational ecosystem service values: A review of meta-analyses and a combination of meta-analytic value-transfer and GIS. *Ecosystem Services* (31), 395–409
- 2017 **Gollnow, F.**, Göpel, J., Hissa, L.B.V., Schaldach, R., Lakes, T. Scenarios of land-use change in a deforestation corridor in the Brazilian Amazon: Combining two scales of analysis. *Regional Environmental Change* (18), 143–159
- 2017 Schaldach, R., Meurer, K.H.E., Jungkunst, H.F., Nendel, C., Lakes, T., **Gollnow, F.**, Göpel, J., Boy, J., Guggenberger, G., Strey, R., Strey, S., Berger, T., Gerold, G., Schönenberg, R., Böhner, J., Schindewolf, M., Latynskiy, E., Hampf, A., Parker, P.S., Sentelhas, P.C. A model-based assessment of the environmental impact of land-use change across scales in Southern Amazonia. *Regional Environmental Change* (18), 161–173
- 2017 Schönenberg, R., Goepel, J., Schaldach, R., **Gollnow, F.**, Lakes, T. Inter- and transdisciplinary scenario construction to explore future land use options in Southern Amazonia. *Ecology and Society* 22 (3)

- 2016 Pinheiro, T.F., Escada, M.I.S., Valeriano, D.M., Hostert, P., **Gollnow, F.**, Müller, H. Forest Degradation Associated with Logging Frontier Expansion in the Amazon: The BR-163 Region in Southwestern Pará, Brazil. *Earth Interactions* 20 (17), 1–26
- 2014 **Gollnow, F.**, Lakes, T. Policy change, land use, and agriculture: The case of soy production and cattle ranching in Brazil, 2001 - 2012. *Applied Geography* (55), 203–211

## PRESENTATIONS

### INVITED PRESENTATIONS

- 2022 **Gollnow, F.**, Federico Cammelli, Carlson, K., Garrett, R. Gaps in adoption limit the current and potential effectiveness of zero-deforestation supply chain policies for soy, Trase Research Dialog, Online
- 2019 **Gollnow, F.** Europas Sojakonsum auf Kosten natürlicher Ökosysteme in Brasilien (The environmental impact of European soybean consumption). Dialogforum Nachhaltigere Eiweißfuttermittel, German Federal Ministry of Food and Agriculture, Berlin, Germany
- 2019 **Gollnow, F.**, Carlson, K., Garrett, R. Companies commitments to zero-deforestation targets for forest-risk commodities, Global reach & regional changes to deforestation footprints, at the Natural Resources & Environmental Management Research Seminar Series, University of Hawaii. USA

### CONFERENCE PRESENTATIONS

- 2019 **Gollnow, F.**, Hissa, L.B.V., Rufin, P. Analyzing deforestation leakage following the implementation of the Soy Moratorium in Mato Grosso, Brazil, American Association of Geographers annual Meeting (AAG), Washington D.C., USA
- 2019 **Gollnow, F.**, Garrett, R., Carlson, K. Potential conservation impact of Zero Deforestation Commitments (ZDCs) in the Brazilian Cerrado, 4th Open Science Meeting of the Global Land Program (GLP), Bern, Switzerland
- 2019 Levers, C., Piquer-Rodríguez, M., **Gollnow, F.**, Baumann, M., Gasparri, N.I., Gavier-Pizarro, G.I., le Polain de Waroux, Y., Müller, D., Müller, R., Volante, J., Kuemmerle T. Scenarios of commodity frontier expansion in the Gran Chaco and their environmental impacts. 4th Open Science Meeting of the Global Land Program (GLP), Bern, Switzerland
- 2019 Rivero Castro, R., Carlson, K., Garrett, R., Villoria, N., Levy, S., **Gollnow F.** Modeling the effects of soybean sector zero-deforestation commitment implementation on land cover change in South America. 4th Open Science Meeting of the Global Land Program (GLP), Bern, Switzerland

- 2015 **Gollnow, F.**, Göpel, J., Lakes, T., Schaldach, R. A Multi-Scale Land Use Modeling approach for the Brazilian Amazon, International Association for Landscape Ecology World Congress (IALE), Portland, USA
- 2015 Lakes, T., **Gollnow, F.**, Göpel, J., Schaldach, R. Future development paths of local land use changes within a globally changing world – a Multi-Scale Land Use Modeling approach for the Brazilian Amazon, Deutscher Kongress für Geographie (DKG), Berlin, Germany
- 2015 Oeser, J., Santibanez, S., **Gollnow, F.**, Lakes, T., Kloft, M. Maschinelles Lernen zur Modellierung raum-zeitlicher Prozesse, Deutscher Kongress für Geographie (DKG), Berlin, Germany
- 2014 **Gollnow, F.**, Lakes, T., 2014. De-spatialization of land use change? Soy expansion and cattle displacement in the Brazilian Amazon, 2nd Global Land Project Open Science Meeting (GLP), Berlin, Germany
- 2009 van der Linden, S., Waske, B., Rabe, A., **Gollnow, F.**, Griffiths, P., Kuemmerle, T., Hostert, P. On the use of support vector machines and decision trees in land cover mapping - a review from the user perspective, 3rd Workshop EARSeL SIG Land Use and Land Cover, Bonn, Germany

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#### CONFERENCE SESSIONS

- 2015 **Gollnow, F.**, Schaldach, R. Szenarien der Landnutzung - multiskalige Modellierungsansätze in einer globalisierten Welt, Deutscher Kongress der Geographie (DKG), Berlin, Germany

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#### CONFERENCE POSTERS

- 2016 **Gollnow, F.**, Mönkemeier, T., Lakes, T. An Open and Flexible Land Use Model for Scenario Assessments alucR (Allocation of Land Use/Cover in R), AGILE Conference, Helsinki, Finland
- 2015 **Gollnow, F.**, Lakes, T. Policy changes as a breakpoint in land use displacement in the Brazilian Amazon? Evidences for changes in deforestation, soy production and cattle ranching between 2001 and 2012 case study along the BR-163, IALE World Congress, Portland, United States of America
- 2013 **Gollnow, F.**, Lakes, T. Statistical evidence for indirect land use change at the "arc of deforestation" Brazil, case study along the BR-163 (Mato Grosso & Pará), Spatial Statistics Conference, Ohio, United States of America

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#### FELLOWSHIPS & AWARDS

- 2018-2020 Postdoctoral Fellowship, National Socio Environmental Synthesis Center, Project: Zero-deforestation supply chain commitments [US\$120,000]
- 2015 NASA-MSU Professional Enhancement Award [US\$1000]
- 2010 - 2011 Joint Research Centre Trainee-Fellowship [Euro 24,000]

2005 - 2006      Socrates/Erasmus Scholarship [Euro 3250]

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**TEACHING EXPERIENCE**

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2016, 2017	Master: Multivariate Statistics in R (Instructor)
2017	Bachelor: Geography excursion Brazil (Co-Instructor)
2017	Bachelor: Introduction to GIS (Instructor)
2016	Master: Advanced GIS (Teaching Assistant)
2016	Master: Land System Modelling (Teaching Assistant)

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**PROFESSIONAL SERVICES**

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REVIEW PANEL

Postdoctoral Fellowship Review Panel, The National Socio-Environmental Synthesis Center, Annapolis, MD

JOURNAL REFEREE

Applied Geography  
 Biological Conservation  
 Conservation Science and Practice  
 Environmental Research Letters  
 Geoforum  
 Global Environmental Change  
 Land Degradation & Development  
 Journal of Environmental Management  
 Journal of Land Use Science  
 Regional Environmental Change  
 Scientific Data – Nature  
 Sustainability

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**RESEARCH STAYS, FIELD WORK AND INTERNATIONAL EXPERIENCE**

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2019	Visiting Postdoc at University of Manoa, Hawaii, (Carlson Lab)
2017	Geography excursion to Brazil (Sao Paulo, Cuiaba, Santarem, Belem)
2016	Project presentation in Mato Grosso and at the Instituto Nacional de Pesquisas da Amazonia (INPA) Manaus, Brazil
2014	Fieldwork along the BR-163 in Mato Grosso and Para, Brazil
2014	Visiting Researcher at the Instituto Nacional de Pesquisas Espaciais (INPE), São José dos Campos, Brazil
2010-2011	Trainee at the Institute for Environment and Sustainability, Joint Research Centre, Ispra, Italy
2005-2006	Exchange Student at the Department of Geography and History, Universidad de la Laguna, San Cristobal de la Laguna, Tenerife, Spain

FLORIAN GOLLNOW – CURRICULUM VITAE

2001-2002      Care Support Worker for People with Special Needs at Camphill Farm  
Community, Hermanus, South Africa