

FLORIAN GOLLNOW - CURRICULUM VITAE

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EDUCATION

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

PROFESSIONAL APPOINTMENTS

- 05/2018 **Postdoctoral Fellow**, National Socio Environmental Synthesis Center (SESYNC), University of Maryland
Evaluating companies zero-deforestation commitments in food commodities (Funded by: NSF)
- 10/2017 - 03/2018 **Postdoctoral Researcher**, Applied Geoinformation Science Lab, Geography Department, Humboldt-Universität zu Berlin
Land-prices and agricultural change in Brandenburg, Germany (Funded by: DFG)
- 03/2017 - 09/2017 **Guest Lecturer & Guest Researcher**, Applied Geoinformation Science Lab, Geography Department, Humboldt-Universität zu Berlin
Head of the Applied Geoinformation Science Lab
- 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 (Funded by: 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 (Funded by: BMBF)

PEER-REVIEWED PUBLICATIONS

- SUBMITTED 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 using GIS, remotely sensed, and survey-based data: the case of the Abuja city-region, Nigeria

PEER-REVIEWED PUBLICATIONS (CONTINUED)

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- UNDER REVIEW 2019* Garrett, R., Levy, S., **Gollnow, F.**, Rueda, X. Have food supply chain policies improved forest conservation and rural livelihoods?
- UNDER REVIEW 2019* Hissa, L.B.V., **Gollnow, F.**, Mueller, H., Lakes, T. Land tenure diversity and forest cover change in a deforestation frontier in Brazilian Amazonia
- UNDER REVIEW 2019* Hissa, L.B.V., Garcia Marquez, J.R., **Gollnow, F.**, Lakes, T. Enhancing synergies for effective large-scale forest restoration in Mato Grosso, Brazilian Amazon
- 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

- 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

CONFERENCE PRESENTATIONS (CONTINUED)

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| 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 |

CONFERENCE SESSIONS

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| 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

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| 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 |

FELLOWSHIPS & AWARDS

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| 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] |

TEACHING EXPERIENCE

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)

PROFESSIONAL SERVICES

REVIEW PANEL

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

JOURNAL REFEREE

Environmental Research Letters
 Global Environmental Change
 Journal of Land Use Science
 Sustainability
 Land Degradation & Development
 Regional Environmental Change
 Applied Geography
 Geoforum

RESEARCH STAYS, FIELD WORK AND INTERNATIONAL EXPERIENCE

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