

CURRICULUM VITAE

— DR. DANIEL MÜLLER —

CURRENT AFFILIATIONS

Deputy Head

Department of Structural Development of Farms and Rural Areas
Leibniz Institute of Agricultural Development
in Central and Eastern Europe (IAMO)

Lecturer (*Privatdozent*)

Geography Department
Humboldt-Universität zu Berlin

Member

Integrated Research Institute on Transformations
of Human-Environment Systems (IRI THESys)
Humboldt-Universität zu Berlin

Visiting Professor

College of Economics and Management
Sichuan Agricultural University
Chengdu, China

CONTACT DETAILS

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ResearcherID: www.researcherid.com/rid/A-4454-2009

ResearchGate: www.researchgate.net/profile/Daniel_Mueller7

Google Scholar: scholar.google.de/citations?user=WFyNEUoAAAAJ&hl

MAJOR RESEARCH INTERESTS

- ▷ Understanding the causes of land-system change
- ▷ Effects of land-system change on ecosystem services
- ▷ Policy options to attain sustainable land-use pathways
- ▷ Current and future agricultural production potentials

EDUCATION

04/2013 Humboldt-Universität zu Berlin, Geography Institute: Habilitation.
Thesis: *Postsocialist land-use change in Eastern Europe: Case studies in Albania and Romania*

07/03 – 12/06 Humboldt-Universität zu Berlin, Department of Agricultural Economics:
Postdoctoral research

04/05 – 05/05 Ohio State University, Department of Geography: Visiting scholar

02/05 – 04/05 Purdue University, Department of Forestry and Natural Resources:
Visiting scholar

- 02/00 – 05/03 Georg-August-Universität Göttingen, Institute of Rural Development and GTZ: Doctoral Dissertation (Agricultural Sciences)
Thesis: *Land-use Change in the Central Highlands of Vietnam: A spatial econometric model combining satellite imagery and village survey data*
Advisor: Manfred Zeller
- 11/94 – 07/99 Humboldt-Universität zu Berlin, Department of Agricultural Economics: Diploma and M.Sc. (Agricultural Sciences)
Thesis: *Crop Residue Management as an Erosion Control Strategy: An Optimal Control Approach*
Advisor: Günter Schamel
- 10/91 – 09/93 Technische Universität Berlin, Faculty of Agriculture: *Vordiplom* (undergraduate studies) in Agricultural Sciences

PUBLICATIONS

A. Refereed journal publications

- (46) Plutzer, C., Kroisleitner, C., Haberl, H., Fetzel, T., Bulgheroni, C., Beringer, T., Hostert, P., Kastner, T., Kuemmerle, T., Lauk, C., Levers, C., Lindner, M., Moser, D., **Müller, D.**, Niedertscheider, M., Paracchini, M.L., Schaphoff, S., Verburg, P.H., Verkerk, P.J., Erb, K.-H. (accepted). Changes in the spatial patterns of human appropriation of net primary production (HANPP) in Europe 1990-2006. *Regional Environmental Change*.
- (45) Jepsen, M.R., Kuemmerle, T., **Müller, D.**, Erb, K., Verburg, P.H., Haberl, H., Vesterager, J.P., Andri?, M., Antrop, M., Austrheim, G., Björn, I., Bondeau, A., Bürgi, M., Bryson, J., Caspar, G., Cassar, L.F., Conrad, E., Chromý, P., Daugirdas, V., Van Eetvelde, V., Elena-Rosselló, R., Gimmi, U., Izakovicova, Z., Jan?ák, V., Jansson, U., Kladnik, D., Kozak, J., Konkoly-Gyuró, E., Krausmann, F., Mander, Ü., McDonagh, J., Pärn, J., Niedertscheider, M., Nikodemus, O., Ostapowicz, K., Pérez-Soba, M., Pinto-Correia, T., Ribokas, G., Rounsevell, M., Schistou, D., Schmit, C., Terkenli, T.S., Tretvik, A.M., Trzepacz, P., Vadineanu, A., Walz, A., Zhllima, E., Reenberg, A., 2015. Transitions in European land-management regimes between 1800 and 2010. *Land Use Policy* 49: 53-64.
- (44) Munteanu, C., Kuemmerle, T., Keuler, N.S., **Müller, D.**, Balázs, P., Dobosz, M., Griffiths, P., Halada, L., Kaim, D., Király, G., Konkoly-Gyuró, É., Kozak, J., Lies-

- kovsky, J., Ostafin, K., Ostapowicz, K., Shandra, O., Radeloff, V.C., 2015. Legacies of 19th century land use shape contemporary forest cover. *Global Environmental Change* 34: 83-94.
- (43) Kuemmerle, T., Kaplan, J.O., Prishchepov, A.V., Rylsky, I., Chaskovskyy, O., Tikunov, V.S., **Müller, D.** (in press). Forest transitions in Eastern Europe and their effects on carbon budgets. *Global Change Biology* 21(8): 3049-3061.
- (42) Gingrich, S., Krausmann, F., Vadineanu, A., Rudbeck Jepsen, M., Niedertscheider, M., Kuemmerle, T., **Müller, D.**, Musel, A., Kastner, T., Erb, K.-H. (2015). Exploring long-term trends in land use change and aboveground Human Appropriation of Net Primary Production in nine European countries. *Land Use Policy* 47: 426-438.
- (41) Kraemer, R., Prishchepov, A.V., **Müller, D.**, Kuemmerle, T., Radeloff, V.C., Dara, A., Terekhov, A., Frühauf, M. (2015). Long-term agricultural land-cover change and potential for cropland expansion in the former Virgin Lands area of Kazakhstan. *Environmental Research Letters* 10(5): 054012.
- (40) Schierhorn, F., **Müller, D.**, Prishchepov, A.V., Faramarzi, M., Balmann, A., (2014). The potential of Russia to increase its wheat production through cropland expansion and intensification. *Global Food Security* 3(3-4): 133-141.
- (39) Frayer, J., **Müller, D.**, Sun, Z., Munroe, D.K., Xu, J. (2014). Processes Underlying 50 Years of Local Forest-Cover Change in Yunnan, China. *Forests* 5(12): 3257-3273.
- (38) Schierhorn, F., Faramarzi, M., Prishchepov, A.V., Koch, F., **Müller, D.** (2014). Quantifying yield gaps in wheat production in Russia. *Environmental Research Letters* 9(8): 084017.
- (37) **Müller, D.**, Sun, Z., Vongvisouk, T., Pflugmacher, D., Xu, J., Mertz, O. (2014). Regime shifts limit the predictability of land-system change. *Global Environmental Change* 28: 75-83.
- (36) Niedertscheider, M., Kuemmerle, T., **Müller, D.**, Erb, K.H. (2014). Exploring the effects of drastic institutional and socio-economic changes on land system dynamics in Germany between 1883 and 2007. *Global Environmental Change* 28: 98-108.
- (35) Munteanu, C., Kuemmerle, T., Boltiziar, M., Butsic, V., Gimmi, U., Lúbož, H., Kaim, D., Király, G., Konkoly-Gyuró, É., Kozak, J., Lieskovský, J., Mojses, M., **Müller, D.**, Ostafin, K., Ostapowicz, K., Shandra, O., Ltych, P., Walker, S., Radeloff, V.C. (2014). Forest and agricultural land change in the Carpathian region – A meta-analysis of long-term patterns and drivers of change. *Land Use Policy* 38: 685-697.

- (34) Levers, C., Verkerk, P.J., **Müller, D.**, Verburg, P.H., Butsic, V., Leitão, P.J., Lindner, M., Kuemmerle, T. (2014). Drivers of forest harvesting intensity patterns in Europe. *Forest Ecology and Management* 315: 160-172.
- (33) Frayer, J., Sun, Z., **Müller, D.**, Munroe, D.K., Xu, J. (2014). Analyzing the drivers of tree planting in Yunnan, China, with Bayesian networks. *Land Use Policy* 36: 248-258.
- (32) Schierhorn, F., **Müller, D.**, Beringer, T., Prishchepov, A.V., Kuemmerle, T., Balmann, A. (2013). Post-Soviet cropland abandonment and carbon sequestration in European Russia, Ukraine and Belarus. *Global Biogeochemical Cycles* 27(4): 1175-1185
- (31) Griffiths, P., **Müller, D.**, Kuemmerle, T., Hostert, P. (2013). Agricultural land change in the Carpathian ecoregion after the breakdown of socialism and expansion of the European Union. *Environmental Research Letters*. 8(4): 045024.
- (30) Erb, K.H., Haberl, H., Rudbeck Jepsen, M., Kuemmerle, T., Lindner, M., **Müller, D.**, Verburg, P.H., Reenberg, A. (2013). A conceptual framework for analysing and measuring land-use intensity. *Current Opinion in Environmental Sustainability* 5(5): 464-470.
- (29) Kuemmerle, T., Erb, K.H., Meyfroidt, P., **Müller, D.**, Verburg, P.H., Estel, S., Haberl, H., Hostert, P., Kastner, T., Levers, C., Lindner, M., Rudbeck Jepsen, M., Plutzer, C., Verkerk, P.J., van der Zanden, E.H., Reenberg, A. (2013). Mapping land use intensity globally. *Current Opinion in Environmental Sustainability* 5(5): 484-493.
- (28) Alcantara, C., Kuemmerle, T., Baumann, M., Bragina, E.V., Griffiths, P., Hostert, P., Knorn, J., **Müller, D.**, Prishchepov, A.V., Schierhorn, F., Sieber, A., Radeloff, V.C. (2013). Mapping the extent of abandoned farmland in Central and Eastern Europe using MODIS time series satellite data. *Environmental Research Letters* 8(3): 035035.
- (27) **Müller, D.**, Leitão, P.J., Sikor, T. (2013). Comparing the determinants of cropland abandonment in Albania and Romania using boosted regression trees. *Agricultural Systems* 117: 66-77.
- (26) Sun, Z., **Müller, D.** (2013). A framework for modeling payments for ecosystem services with agent-based models, Bayesian belief networks and opinion dynamics models. *Environmental Modelling & Software* 45: 15-28.
- (25) **Müller, D.**, Suess, S., Hoffmann, A.A., Buchholz, G. (2013). The value of satellite-based active fire data for monitoring, reporting and verification of REDD+ in the

- Lao PDR. *Human Ecology* 41(1): 7-20.
- (24) Prishchepov, A.V., **Müller, D.**, Dubinin, M., Baumann, M., Radeloff, V.C. (2013). Determinants of agricultural land abandonment in post-soviet European Russia. *Land Use Policy* 30(1): 837-884.
- (23) Mertz, O., **Müller, D.**, Sikor, T., Hett, C., Heinemann, A., Castella, J.-C., Lestrelin, G., Ryan, C.M., Reay, D.S., Schmidt-Vogt, D., Danielsen, F., Theilade, I., van Noordwijk, M., Verchot, L.V., Burgess, N.D., Berry, N.J., Pham, T.T., Messerli, P., Xu, J., Fensholt, R., Hostert, P., Pflugmacher, D., Bruun, T.B., de Neergaard, A., Dons, K., Dewi, S., Rutishauer, E. (2012). The forgotten D: challenges of addressing forest degradation in complex mosaic landscapes under REDD+. *Geografisk Tidsskrift-Danish Journal of Geography* 112(1): 63-76.
- (22) Müller, R., **Müller, D.**, Schierhorn, F. Gerold, G., Pacheco, P. (2012). Proximate causes of deforestation in the Bolivian lowlands: an analysis of spatial dynamics. *Regional Environmental Change* 12(3): 445-459.
- (21) Prishchepov, A.V., Radeloff, V.C., Baumann, M., Kuemmerle, T., **Müller, D.** (2012). Effects of institutional changes on land use: Agricultural abandonment during the transition from state-command to market-driven economies in post-Soviet Eastern Europe. *Environmental Research Letters* 7(3): 024021.
- (20) Gruebner, O., Khan, M.H., Lautenbach, S. **Müller, D.**, Kramer, A., Lakes, T., Hostert, P. (2012). Mental health in the slums of Dhaka - A geo-epidemiological study. *BMC Public Health* 12(177). DOI: 10.1186/1471-2458-12-177.
- (19) Müller, R., **Müller, D.**, Schierhorn, F. Gerold, G. (2011). Spatiotemporal modeling of the expansion of mechanized agriculture in the Bolivian lowland forests. *Applied Geography* 31(2): 631-640.
- (18) Epprecht, M., **Müller, D.**, Minot, N. (2011). How remote are Vietnam's ethnic minorities? An analysis of spatial patterns of poverty and inequality. *Annals of Regional Science* 46(2): 349-368.
- (17) Gruebner, O., Khan, M.H., Lautenbach, S. **Müller, D.**, Kramer, A., Lakes, T., Hostert, P. (2011). A spatial epidemiological analysis of self-rated mental health in the slums of Dhaka. *International Journal of Health Geographics* 10(36). DOI: 10.1186/1476-072X-10-36
- (16) Zhllima, E., Viaggi, D., **Müller, D.** (2010). Property rights of land and its perception in rural parts of Albania. *New Medit* 9(3): 55-65.
- (15) **Müller, D.**, Kuemmerle, T., Rusu, M., Griffiths, P. (2009). Lost in transition: Determinants of cropland abandonment in postsocialist Romania. *Journal of Land Use*

- Science* 4(1): 109-129.
- (14) Lakes, T., **Müller, D.**, Krüger, C. (2009) Cropland change in Southern Romania - a comparison of logistic regressions and artificial neural networks. *Landscape Ecology* 24(9): 1195-1206.
 - (13) Sikor, T., **Müller, D.** (2009). The limits of state-led land reform: An introduction. *World Development* 37(8): 1307-1316.
 - (12) Sikor, T., **Müller, D.**, Stahl, J. (2009). Land fragmentation and cropland abandonment in Albania: Implications for the roles of state and community in postsocialist land consolidation. *World Development* 37(8): 1411-1423.
 - (11) Kuemmerle, T., **Müller, D.**, Griffiths, P., Rusu, M. (2009). Land use change in Southern Romania after the collapse of socialism. *Regional Environmental Change* 9(1): 1-12.
 - (10) **Müller, D.**, Mburu, J. (2009). Forecasting hotspots of forest clearing in Kakamega Forest, Western Kenya. *Forest Ecology and Management* 257(3): 968-977.
 - (9) Sunderlin, W.D., Dewi, S., **Müller, D.**, Angelsen, A., Puntodewo, A., Epprecht, M. (2008). Why forests are important for global poverty alleviation: A spatial explanation. *Ecology and Society* 13(2): 24. [online] URL: <http://www.ecologyandsociety.org/vol13/iss2/art24/>.
 - (8) **Müller, D.**, Munroe, D.K. (2008). Changing rural landscapes in Albania: Cropland abandonment and forest clearing in the postsocialist transition. *Annals of the Association of American Geographers* 98(4): 855-876.
 - (7) Epprecht, M., Heinimann A., Minot, N., **Müller, D.**, Robinson, T. (2007). From statistical data to spatial knowledge – Informing decision making in Vietnam. *Information Development* 23(2-3): 193-204.
 - (6) Munroe, D.K., **Müller, D.** (2007). Issues in multi-scale, spatial evaluation of statistical LUCC models: Examples from western Honduras and the Central Highlands of Vietnam. *Land Use Policy* 24(3): 521-530.
 - (5) **Müller, D.** Sikor, T. (2006). Effects of postsocialist reforms on land cover and land use in South-eastern Albania. *Applied Geography* 26(3-4): 175-191.
 - (4) Pijanowski, B.C., Alexandridis, K.T., **Müller, D.** (2006). Modeling urbanization patterns in two diverse regions of the world. *Journal of Land Use Science* 1(2-4): 83-108.
 - (3) **Müller, D.**, Munroe, D.K. (2005). Tradeoffs between rural development policies and forest protection: Spatially-explicit modeling in the Central Highlands of Vietnam. *Land Economics* 81(3): 412-425.

- (2) **Müller, D.** (2005). Stata in Space: Econometric analysis of spatially explicit raster data. *Stata Journal* 5(2): 224-238.
- (1) **Müller, D.**, Zeller, M. (2002). Land-use dynamics in the Central Highlands of Vietnam: A spatial model combining village survey data and satellite imagery interpretation. *Agricultural Economics* 27(3): 333-354.

B. Books and book chapters

- (10) Gruebner, O., Khan, M.H., Lautenbach, S., **Müller, D.**, Kraemer, A., Lakes, T., Hostert, P., Galea, S. (2015) The Spatial Epidemiology of Mental Well-being in Dhaka's Slums. In: Kanaroglou, P., Delmelle, E., Páez, A., *Spatial Analysis in Health Geography*. Farnham: Ashgate; pp. 139-160.
- (9) **Müller, D.** (2012). Postsocialist land-use change in Eastern Europe: Case studies in Albania and Romania. Habilitation Thesis. Geography Department, Humboldt-Universität zu Berlin.
- (8) Taff, G.N., **Müller, D.**, Kuemmerle, T., Ozdeneral, E., Walsh, S.J. (2010) Reforestation in Central and Eastern Europe after the breakdown of socialism. In: Nagendra, H., Southworth, J., *Reforesting Landscapes: Linking Pattern and Process*. New York: Springer; pp. 121-147.
- (7) **Müller, D.**, Munroe, D.K. (2009) Simulating the Effects of Rural Development Policies on Land Use: Evidence from Spatially Explicit Modeling in the Central Highlands of Vietnam. In: Pilz, J., *Interfacing Geostatistics and GIS*. Berlin: Springer; pp. 91-104.
- (6) **Müller, D.**, Kuemmerle, T. (2009). Causes of Cropland Abandonment during the Post-socialist Transition in Southern Romania. In: Groisman, P.Y., Ivanov, S.V., *Regional aspects of climate-terrestrial-hydrologic interactions in non-boreal Eastern Europe*. NATO Science Series. New York: Springer; pp. 205-214.
- (5) Babigumira, R., **Müller, D.**, Angelsen, A. (2008) An integrated approach to studying land use change: A case study of deforestation in Western Uganda, 1990-2000. In: Aspinall, R.J., Hill, M.J., *Land Use Change: Science, policy and management*. Boca Raton: CRC Press; pp. 63-79.
- (4) **Müller, D.** (2005). Entries for the land use and land cover encyclopedia "The Earth's Changing Land": *Hot-spot identification (with D.K. Munroe), aerial photography, cash crops, food crops, georeferencing, subsistence agriculture*.
- (3) **Müller, D.** (2004). *From agricultural expansion to intensification: Rural development and determinants of land-use change in the Central Highlands of Vietnam*.

Eschborn: Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ).

- (2) **Müller, D.**, Zeller, M. (2004). Agricultural intensification, population growth and forest-cover change: Evidence from spatially explicit land-use modeling in the Central Highlands of Vietnam. In: Gerold, G., Fremerey, M., Guhardja, E. *Land Use, Nature Conservation and the Stability of Rainforest Margins in Southeast Asia*. Berlin: Springer; pp. 495-520.
- (1) **Müller, D.** (2003). *Land-use change in the Central Highlands of Vietnam: A spatial econometric model combining satellite imagery and village survey data*. Doctoral dissertation, Georg-August-Universität Göttingen.

C. Selected other publications

- (22) Mertz, Ole; Pasgaard, M., **Müller D.**, Brockhaus, M., Verchot, L.V., Sun, Z., Sikor, T., van Noordwijk, M., Hett, C., Castella, J.-C., Bruun, T.B., Pflugmacher, D., Danielsen, F. (2015) Lessons for REDD+ from complex mosaic landscapes. Newsletter of the Global Land Project 11, 34-35.
- (21) **Müller, D.**, Munroe, D.K. (2014). Current and future challenges in land-use science. *Journal of Land Use Science* 9(2): 133-142.
- (20) Shepard, G., Kazoora, C., **Müller D.** (2013). *Forests, livelihoods and poverty alleviation: The case of Uganda*. Forestry Policy and Institutions Working Paper No. 32. Food and Agriculture Organization of the United Nations (FAO), Rome.
- (19) Johana, F., Suyanto, S., Widayati, A., Zulkarnain, M.T., **Müller D.**, Budiman, A. (2013). *Local Mitigation Actions Supporting the Low Emission Development Plan in Kutai Barat District, Indonesia - Initial Process*. Brief No. 35: Kutai Barat series. World Agroforestry Centre (ICRAF), Southeast Asia Regional Program. Bogor, Indonesia.
- (18) Schierhorn, F., **Müller D.**, Prishchepov A.V., Balmann, A. (2012). *Grain potentials on abandoned cropland in Russia*. Paper prepared for the Annual World Bank Conference on Land and Poverty. The World Bank, Washington DC.
- (17) Prishchepov A. V., Radeloff V. C., Baumann M., Kuemmerle T., and **Müller D.** (2012). Impact of institutional and socio-economic changes after the collapse of the USSR on agricultural land use in Eastern Europe (in Russian). *Earth from Space – the Most Effective Solutions*. 14: 7-14.
- (16) Mertz, O., Sikor, T., Jensen, A., Verchot, L.V., **Müller, D.** (2012). *Understanding, measuring and governing changes in forest carbon stocks in complex landscapes*. I-REDD+ Policy Brief No. 2. Bangkok, Thailand.

- (15) Prishchepov, A.V., Radeloff, V.C., **Müller, D.** (2012). *Die Rolle von Institutionen und kleinräumlich wirkender Faktoren zur Erklärung von Veränderungen in der Nutzung landwirtschaftlicher Flächen in Osteuropa nach Auflösung der Sowjetunion.* IAMO Annual 2012: 11-20.
- (14) Schierhorn, F., **Müller, D.** (2011). *Russlands Beitrag zur Welternährung.* ForschungsReport Ernährung, Landwirtschaft, Verbraucherschutz, No. 2: 18-20.
- (13) Schierhorn, F., **Müller, D.**, Hahlbrock, K. (2011). *The agricultural potential of European Russia.* IAMO Annual 2011: 83-94 (also available in German and Russian).
- (12) Frayer, J., **Müller, D.** (2011). *The impact of agri-environmental programmes on land use and household income in south-west China.* IAMO Annual 2011: 11-25 (also available in German and Russian).
- (11) Hostert, P., Kuemmerle, T., Radeloff, V., **Müller, D.** (2008). *Post Socialist Land-Use and Land-Cover Change in the Carpathian Mountains.* IHDP Update 2: 70-73.
- (10) Hostert, P., Kuemmerle, T. **Müller, D.**, Lakes T. (2008). *Post-socialist land-use and land-cover change in the Carpathians.* GLP News No. 3.
- (9) **Müller, D.** (2008). *The influence of post-socialist transition on land use in Albania.* IAMO Annual 2008: 29-36 (also available in German and Russian).
- (8) **Müller, D.**, Epprecht, M., Sunderlin, W.D. (2006). *Where are the Poor and where are the Trees? Targeting of poverty reduction and forest conservation in Vietnam.* CIFOR Working Paper No. 34, Center for International Forestry Research (CIFOR), Bogor, Indonesia.
- (7) Sikor, T., **Müller, D.** (2004). *Wie wirken sich postsozialistische Bodenreformen auf die Landnutzung aus? Eine komparative Analyse in Südosteuropa und Vietnam.* Humboldt Spektrum 2004/1.
- (6) **Müller, D.**, Epprecht, M. (2004). *Where are the Poor - and Where are the Trees? Empirical Evidence from Rural Vietnam.* Background paper for the Internationale Seminar 'Mapping Poverty in Southeast Asia', Jakarta, Indonesien.
- (5) **Müller, D.**, Zeller, M. (2003). *Simulating the effects of rural development policies on land use: Evidence from spatially explicit modeling in the Central Highlands of Vietnam.* Background paper for poster presented at the 25th IAAE Conference, Durban.
- (4) **Müller, D.**, Wode, B. (2002). *Manual on Participatory Village Mapping using Photomaps.* Consultant report for the Social Forestry Development Project (SFDP) Song Da – GTZ/GFA.

- (3) **Müller, D.** (2002) *Agricultural expansion versus intensification: Evidence from land use modeling in the Central Highlands of Vietnam*. Pacific News 19: 8-10.
- (2) **Müller, D.** (2002) *Land Use Dynamics in the Central Highlands of Vietnam: Evidence from Lak and Krong Bong Districts, Dak Lak province*. Dak Lak Forestry Review, Buon Ma Thuot, Vietnam (in Vietnamese).
- (1) **Müller, D.**, Schamel, G. (2000). *Crop residue management as an erosion control strategy: An optimal control approach*. Background paper for poster presented at the 24th IAAE Conference, Berlin.

EDITORIAL WORK

Since 2015	Editorial Board Member, <i>Sustainability</i> (Section for Social Ecology and Sustainability)
Since 2014	Editor-in-Chief, <i>Journal of Land Use Science</i> (with Darla K. Munroe)
2009 – 2013	Editorial Board Member, <i>Journal of Land Use Science</i>
2009	Guest editor, <i>World Development: The limits of state-led land reform</i> (special issue with Thomas Sikor)

REVIEW ACTIVITIES

Agrarwirtschaft; Agriculture; Agricultural Economics; Agricultural Systems; Carbon Balance and Management; Agriculture, Ecosystems & Environment; Annals of the Association of American Geographers; Canadian Journal of Agricultural Economics; Current Opinion in Environmental Sustainability; Czech Science Foundation; Danish Journal of Geography (Geografisk Tidsskrift); Ecological Economics; Ecological Research; Environment and Development Economics; Environmental Conservation; Environmental Management; Environmental Modelling & Software; Environmental Monitoring and Assessment; European Research Council (ERC); European Review of Agricultural Economics; Forest Policy and Economics; GEWISOLA; International Forestry Review; International Journal of Geographic Information Systems; Journal of Forest Economics; Journal of Land Use Science; Journal of Peasant Studies; Land Use Policy; Land; Landscape Ecology; Landscape and Urban Planning; Mountain Research and Development; National Science Foundation (NSF); Netherlands Organisation for Scientific Research

(NWO); Regional Environmental Change; Sensors; Singapore Journal of Tropical Geography; Society and Natural Resources; World Development.

EMPLOYMENT RECORD

- Since 03/14 Lecturer (*Privatdozent*): Department of Geography, Humboldt-Universität zu Berlin
- Since 03/09 Deputy Head of Department Structural Change: Leibniz Institute of Agricultural Development in Central and Eastern Europe (IAMO)
- Since 01/07 Visiting scientist: Department of Geography, Humboldt-Universität zu Berlin
- Since 06/07 Senior research fellow: IAMO
- 09/11 – 12/11 Consultancy for FAO Forest Resource Assessment 2010: Contribution to thematic study *Forest, Poverty, Livelihoods* (with Dr. Gill Shepard)
- 10/10 – 01/11 Parental leave
- 02/10 – 05/10 Consultancy for Deutsche Gesellschaft für technische Zusammenarbeit (GTZ): *Development of a concept for remote sensing based monitoring system to reduce shifting cultivation* (with Stefan Suess)
- 01/07 – 05/07 Research scientist in the BIOTA-East Project: Department of Economic and Technological Change (ZEF B), Center for Development Research, University of Bonn
- 07/03 – 12/06 Postdoctoral Research Fellow in Junior Research Group *Postsocialist Land Relations*: Department of Agricultural Economics, Humboldt-Universität zu Berlin
- 01/03 – 03/03 Lecturer: Institute of Rural Development, Georg-August-Universität Göttingen
- 12/02 – 02/03 Research collaborator for spatial analysis of resource use in Sulawesi, Indonesia: Institute of Rural Development, Georg-August-Universität Göttingen
- 02/00 – 05/03 Doctoral research candidate in GTZ-project: Ministry of Agriculture and Rural Development, Vietnam
- 10/99 – 12/99 Internship in GTZ headquarters: Project planning and formulation of GTZ-project proposals for Global Environment Facility (GEF)

- 02/99 – 06/99 Internship for GTZ: Policy advice for Ministry of Rural Development and Environment, Nouakchott, Mauritania
- 10/97 – 07/99 Teaching assistant: Department of Agricultural Economics, Humboldt-Universität zu Berlin (five different courses in Agricultural and Environmental Economics)
- 10/95 – 10/98 Research assistant: Department of Agricultural Economics, Humboldt-Universität zu Berlin

PROJECTS

1) Ongoing

- ▷ *Balancing trade-offs between agriculture and biodiversity in the steppes of Kazakhstan (BALTRAK)*. 2015-2017: VolkswagenStiftung. PI: Dr. Johannes Kamp (Universität Münster).
- ▷ *Pathways to sustainable land management in Northern Argentina (PASANOVA)*. Bundesministerium für Bildung und Forschung, BMBF (Fördermaßnahme “Bioeconomy International 2014”), 2015-2018. PI: Prof. Dr. Tobias Kuemmerle (Humboldt-Universität zu Berlin).
- ▷ *Economic and natural potentials of agricultural production and carbon trade-offs in Kazakhstan, Ukraine, and Russia (EPIKUR)*. Leibniz Initiative for Excellency in Research (Pakt), 2012-2015. PI: Dr. Daniel Müller.
- ▷ *Globale Ernährungssicherung und die Getreidemärkte Russlands, der Ukraine und Kasachstans (GERUKA)*. Bundesministerium für Ernährung, Landwirtschaft und Verbraucherschutz (BMELV), 2012-2017. PI: Prof. Dr. Thomas Glauben (IAMO).
- ▷ *Synthesis of studies on institutional change and LCLUC effects on carbon, biodiversity, and agriculture after the collapse of the Soviet Union*. NASA Land Cover and Land Use Change Program (LCLUC), 2012-2015. PI: Prof. Volker Radeloff, Ph.D. (University of Wisconsin-Madison).
- ▷ *KULUNDA: How to prevent the next “Global Dust Bowl”? – Ecological and Economic Strategies for Sustainable Land Management in the Russian Steppes: A Potential Solution to Climate Change*. Federal Ministry of Education and Research (BMBF), funding measure “Sustainable Land Management”, 2011-2016. Coordinator: Prof. Dr. Manfred Frühauf (Martin-Luther-Universität Halle-Wittenberg).

2) Completed

- ▷ *Impacts of Reducing Emissions from Deforestation and Forest Degradation and Enhancing Carbon Stocks (I-REDD+)*. Work package leader “Monitoring, reporting and verification (MRV) and capacity development”. EC-FP7, 2011-2014. Coordinator: Prof. Dr. Ole Mertz (University of Copenhagen).
 - ▷ *Sustainable European Bioenergy Strategy*: German Ministry for the Environment, 2009-2011. PI: Dr. Daniela Thrän (German Biomass Research Centre, DBFZ).
 - ▷ *Initiation of cooperation with Sichuan Agricultural University*. Funded by Robert Bosch Foundation (Science Bridge Asia), 2011-2012. PI: Dr. Daniel Müller.
 - ▷ *200 Years of Land Use and Land Cover Changes and their Driving Forces in the Carpathian Basin*. NASA-LCLUC, 2011-2014. PI: Prof. Volker Radeloff, Ph.D. (University of Wisconsin-Madison).
 - ▷ *Economic Dynamics and Social Equilibrium in Rural China*. Leibniz Initiative for Excellency in Research (Pakt), 2008-2011. PI: Prof. Dr. Thomas Glauben (IAMO). Project obtained perpetual funding from Leibniz Association.
 - ▷ *Land Use Change, Protected Areas, and Biodiversity in the Caucasus and Ural Mountains*. PI: Prof. Volker Radeloff, Ph.D. (University of Wisconsin-Madison).
 - ▷ *Impacts of expanding biomass production on economy, climate, and biodiversity of the earth*: Leibniz Initiative for Excellency in Research (Pakt), 2009-2011. PI: Prof. Dr. Wolfgang Lucht (PIK).
 - ▷ *IAMO Graduate School - Prospects for small-scale farm structures in the new Member States of the European Union*: Leibniz Initiative for Excellency in Research (Pakt), 2007-2010. PI: Dr. Martin Petrick (IAMO). Project obtained perpetual funding from Leibniz Association.
 - ▷ *Post-USSR land cover change in Eastern Europe – socioeconomic forcings, effects on biodiversity, and future scenarios*: NASA-LCLUC, 2004-2009. PI: Prof. Volker Radeloff, Ph.D. (University of Wisconsin-Madison).
 - ▷ *Postsocialist Land Relations*: German Research Foundation (DFG), Emmy Noether-Program, 2003-2006. PI: Thomas Sikor, Ph.D. (Humboldt-Universität zu Berlin).
 - ▷ *Development of an Information System to Assess Land Use Change in Upland Watersheds - Case Study for Vietnam*: Ministry for Economic Cooperation and Development (BMZ), 2000-2003. PI: Dr. Daniel Müller.
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SUPERVISION OF DOCTORAL DISSERTATIONS

1) **Ongoing**

- ▷ Fang Yin: *Land use and water scarcity in Qinghai Province, China*. IAMO: since 2014 (main adviser).
- ▷ Friedrich Koch: *Crop production and climate change in Ukraine*. IAMO: since 2013 (main adviser).
- ▷ Kristin Leimer: *Simulating the effects of land policy liberalizations on land use and farm structures in Sichuan, China*. IAMO: since 2013 (main adviser).
- ▷ Jens Frayer: *The effects of payments for ecosystem services on human well-being and land use in Yunnan, China*. IAMO: Submission expected in 2015 (main adviser).

2) **Completed** (selection)

- ▷ Florian Schierhorn: *Agricultural production potentials in European Russia, Ukraine, and Belarus* IAMO: 2015 (main adviser).
- ▷ Stephan Estel: *Mapping patterns of agricultural land-use intensity across Europ*. Humboldt-Universität zu Berlin: 2015 (evaluator).
- ▷ Kuenda Laze: *Identifying and understanding forest cover change patterns and processes in Albania and Kosovo*. IAMO: 2014 (main adviser).
- ▷ Patrick Griffiths: *Utilizing the depth of Landsat archive to reconstruct recent land change in the Carpathian ecoregion*. Humboldt-Universität zu Berlin: 2013 (evaluator)
- ▷ Robert Müller: *Policy options to reduce deforestation in the Bolivian lowlands based on spatial modeling of land use change*. Georg-August-Universität Göttingen: 2012 (co-adviser and evaluator).
- ▷ Oliver Grübner: *Dhaka: a geomatics based approach for linking urban ecology public health and informal settlement structure in a megacity*. Humboldt-Universität zu Berlin: Graduated 2011 (co-adviser).
- ▷ Rikke Folving: *Farming system changes among ethnic minorities in the Vietnamese uplands: A comparative village-study on the effects of land allocation in terms of food security, livelihoods and land use changes*. University of Copenhagen: 2007 (co-adviser and evaluator).
- ▷ Stefan Dorondel: *Agrarian Transformation, Social Differentiation, and Land Use Change in Postsocialist Romania*. Humboldt-Universität zu Berlin: 2007 (committee member).

- ▷ Johannes Stahl: *The Political Ecology of Postsocialist Land Use Change: Case Studies from Three Villages in Southeastern Albania*. Humboldt-Universität zu Berlin: 2007 (committee member).
- ▷ Huynh Van Chuong: *Multi-criteria Land Suitability Evaluation for Selected Fruit Crops in Hilly Region of Central Vietnam: The Case study of two communes in Thua Thien Hue province*. Humboldt-Universität zu Berlin: 2007 (committee member).
- ▷ Nana Künkel: *Zusammenhänge zwischen Agrarentwicklungsmustern und Bodendegradation in Südostasien*. Humboldt-Universität zu Berlin: 2006 (committee member).
- ▷ Tan Quang Nguyen: *Devolution of Forest Management: An Analysis of Differentiated Economic Benefits of Local Households in Dak Lak, Vietnam*. Humboldt-Universität zu Berlin: 2005 (committee member).

INVITED TALKS AND GUEST LECTURES

(Selection since 2009 of more than 30 in total)

- ▷ **2015:** *Can the former Soviet Union countries contribute to reducing the looming global land scarcity?* Agrarökonomisches Kolloquium, Universität Bonn.
- ▷ **2015:** *Post-socialist land transformations in the former Soviet Union*. Invited keynote, World Agroforestry Center (ICRAF) Central Asia Workshop on Agroforestry, Kunming, China.
- ▷ **2014:** *Sustainable Intensification of Agriculture: Concepts, Challenges and Opportunities*. Invited lecture, China-German Academic Exchange Series, Sichuan Agricultural University, Chengdu.
- ▷ **2014:** *Agricultural potentials and carbon tradeoffs in Russia*. Invited lecture, China-German Academic Exchange Series, Sichuan Agricultural University, Chengdu.
- ▷ **2014:** *Postsocialist Land Reforms: Representations, outcomes, and empirical examples*. Invited lecture, Sichuan Agricultural University, Chengdu.
- ▷ **2014:** *Ackerbauliche Produktionspotenziale in Russland und Kohlenstoff-Trade-Offs der Rekultivierung*. Geographisches Kolloquium, Institut für Geowissenschaften und Geographie, Martin-Luther-Universität Halle-Wittenberg.

- ▷ **2013:** *Potentials of agricultural production and carbon tradeoffs in the Russian Federation.* Food Security Center in Dialogue, University of Hohenheim.
- ▷ **2013:** *Comparing the determinants of cropland abandonment in Albania and Romania using boosted regression trees.* Agricultural Economics and Social Sciences Seminar Series, University of Hohenheim.
- ▷ **2013:** *Land Use Intensity Assessment - a Systematic Approach.* Lecture at VOLANTE Summerschool, University of the Aegean.
- ▷ **2013:** *Understanding Land-System Change in the Former Soviet Union.* Policy and Stakeholder Workshop, Altai State University, Barnaul.
- ▷ **2013:** *Conceptualizing, Measuring and Mapping Land-Use Intensity.* Scientific talk to obtain the habilitation. Humboldt-Universität zu Berlin.
- ▷ **2012:** *Postsocialist Land Reforms: Representations, outcomes, and empirical examples.* Invited lecture, Sichuan Agricultural University, Chengdu.
- ▷ **2011:** *How can payments for ecosystem services promote sustainable land use?* Invited lecture, Sichuan Agricultural University, Chengdu.
- ▷ **2011:** *Folgen des Klimawandels für die Forstwirtschaft Albanien.* Opening event: “Climate change – Challenges for Albania?” Goethe-Institut Tirana.
- ▷ **2011:** *How important is land fragmentation in constraining agricultural development? A critique of state-led land consolidation initiatives.* Presented at the Seminar “Property rights security and its implications for rural development in Albania”, Tirana.
- ▷ **2010:** *What caused the differences in country-specific land use trajectories across Eastern Europe and the former Soviet Union?* Agrarökonomisches Kolloquium; Christian-Albrechts-Universität zu Kiel.
- ▷ **2010:** *The human dimensions of land use change: Theory and applications.* China Ecological Forum, Chinese Academy of Sciences, Beijing.
- ▷ **2010:** *Payments for ecosystem services to promote sustainable land use practices.* Seminar “Economic Assessment and Policies for Sustainable Rural Development”. University of Hohenheim and China Agricultural University, Beijing.
- ▷ **2009:** *Postsozialistische Entwicklungspfade der Landnutzung in Osteuropa und der ehemaligen Sowjetunion: Gemeinsamkeiten, Unterschiede und deren Ursachen.* Appointment

lecture for professorship “Sustainable Land Use and Global Change.” Universität für Bodenkultur, Vienna.

- ▷ **2009:** *Räumliche Modellierung der Aufgabe agrarisch genutzter Flächen in Albanien und Rumänien.* Geographisches Kolloquium der Georg-August-Universität Göttingen.
- ▷ **2009:** *(Geo-)statistical analyses and modeling.* Invited lecture at International Summer School 2009 “Megacities: Health, Geomatics and Climate Change.” University of Bielefeld.
- ▷ **2009:** *Land change science and the integration of socioeconomic data with spatially explicit data.* Invited talk at kick-off workshop „Market-based instruments for ecosystem services”. Berlin-Brandenburg Academy of Sciences, Berlin.
- ▷ **2009:** *The Forest-Poverty Nexus in Rural Vietnam: A Spatial Explanation.* Lecture Series “Challenges of Sustainable Resource Use in Asian Economies.” Humboldt-Universität zu Berlin.
- ▷ **2009:** *The Transition as a Natural Experiment: How broad-scale transformation affects local land use change.* Keynote speech, IAMO Forum 2009. Halle (Saale).
- ▷ **2009:** *Modeling the effects of payments for ecosystem service on human well-being and land use in upland Yunnan.* Presentation to NSF IGERT China Program. University of Wisconsin, Madison (WI).
- ▷ **2009:** *Mixing analytical approaches improves the understanding of postsocialist land use change.* Guest lecture at the Department of Forestry and Natural Resources. University of Purdue, Lafayette (IN).

TEACHING RECORD

- 2009 – 2015 *Introduction to Geographic Information Systems and Spatial Analysis* (with Z. Sun, A.V. Prishchepov, F. Schierhorn). Doctoral Certificate Program in Agricultural Economics, IAMO (once per year; 1h/week & semester)
- 2008 – 2015 *Land System Science* (with P. Hostert, T. Lakes, D. Haase, T. Kuemmerle). M.Sc./Diploma course, Humboldt-Universität zu Berlin (once per year; 1-2h/week & semester)
- 2008 – 2010 *Land and Water Management* (with I. Theesfeld). M.Sc. course, Humboldt-Universität zu Berlin (once per year; 1h/week & semester)

- 2003 *Economics of Agricultural Production in Developing Countries*. M.Sc./ Diploma course, Georg-August-Universität Göttingen (2h/week & semester)
- 1999 *Environmental and Resource Economics: Theory and Policy*. M.Sc. course, Humboldt-Universität zu Berlin (teaching assistant)
- 1998 – 1999 *Microeconomics in International Agriculture*, Humboldt-Universität zu Berlin (teaching assistant)

Berlin, September 9, 2015