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Short presentation

I am an associate professor in Human Geography and Geoinformatics in the Geography Section at the University of Copenhagen. I work in an interdisciplinary setting, combining methods from social sciences with geoinformatics and quantitative analysis. My main research interests cover human-environment systems and in particular land system dynamics and sustainable natural resource management.

I teach courses at all levels in the Geography program; with first year students, I discuss agricultural systems and food security. At bachelor level, I enjoy teaching the course in Sustainable Natural Resource Management, and at bachelor and master level, I teach geoinformatics.

In the period 2005-2008 I was away from academic Geography, working as a data analyst and building dynamic models of infectious diseases and real-time map interfaces to disease databases. In 2020, I took leave from the University of Copenhagen to work with the Danish Council on Climate Change.

I am part of the research group on Environment and Society in the Global South.

Employment

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| 2013 - | Associate Professor, University of Copenhagen |
| 2020 | Analyst in the Danish Climate Council |
| 2011 - 2013 | Assistant Professor, University of Copenhagen |
| 2010 - 2011 | High School teacher, Birkerød Gymnasium |
| 2008 - 2010 | Post-doctoral researcher, Århus University |
| 2006 - 2008 | Data modeler and analyst, Statens Serum Institut (Danish Center for Disease Control) |
| 2005 - 2006 | Academic staff, Danish Ministry of Environment |

Education

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| 2015 | Supervision of doctoral students, University of Copenhagen |
| 2015 | Responsible Conduct of Research, University of Copenhagen |
| 2010 | University Didactics, Århus University |
| 2006 | PhD, University of Copenhagen |
| 2001 | Cand. Scient, University of Copenhagen |
| 1998 | B.Sc., University of Copenhagen |

Selected scientific projects and funding

2023 - 2027 PI, "Revealing land use behavior" (Horizon Europe, appr. 660.000 EUR)
2022 - 2026 PI, "DrainDetect. Mapping drained fields using remote sensing (Geocenter DK, appr. 300.000 EUR)
2021 - 2023 Network coordinator "greenhouse gas emissions from agricultural soils" (UCPH, 400,000 DKK)

PhD supervision

Ask Holm Carlsen: Mapping drained fields using remote sensing.

Yair Alvarez: Land use systems in Yucatan, Mexico

Lisset Marulanda: Sustainable land use and peace-building in Colombia.

Scott Ford: Tracking changes in the World Database on Protected Areas. Part of the EU-ITN Inspire4Nature

Yongheng Rao: Mapping land use dynamics in Southern China. Funded by the Chinese Academy of Sciences.

Hanh Le Minh: Impacts of climate change and adapting bio-security measure for aquaculture in northern Vietnam. On-

going.

Neha Joshi: Spaceborne radar for mapping forest and land use changes: An empirical synthesis combining local knowledge, field inventories, lidar and optical remote sensing data. Graduated 2016.

Xuncheng Fan: Mapping shifting cultivation intensities. Terminated 2016.

Other scientific merits

2018 - : co-editor of the Carbon section of Remote Sensing of Earth Systems Sciences

2017 : reviewer for the Swiss National Science Foundation

2012 : reviewer for the Portuguese Foundation for Science and Technology

Reviewer for a.o. Global Environmental Change, Regional Environmental Change, Int. J. of Appl. Earth Observation and Geoinformation, Land Use Policy, Ambio, Landscape Ecology.

VIP representative in the departmental board for teaching.

Experience with field research in developing countries

China, Malaysia, Myanmar, Vietnam, Senegal

Publications

Systematic review of the detection of subsurface drainage systems in agricultural fields using remote sensing systems

Carlsen, Ask Holm, Fensholt, Rasmus, Zibar, Majken Caroline Looms, Gomini, Dimitri Pierre Johannes, Stisen, S. & Jepsen, Martin Rudbeck, 2024, In: Agricultural Water Management. 299, 14 p., 108892.

Unraveling the complexity of land use change and path dependency in agri-environmental schemes for small farmers: A serious game approach

Alpuche Alvarez, Yair Asael, Jepsen, Martin Rudbeck, Müller, D., Rasmussen, Laura Vang & Zhanli, S., 2024, In: Land Use Policy. 139, 13 p., 107067.

A Novel Framework for Measuring Peacebuilding Co-Benefits from Sustainable Production Systems in Conflict-Affected Areas

Pérez Marulanda, Lisset, Jepsen, Martin Rudbeck, Löhr, K., Morales, H., Quintero, M., Romero, M. & Castro-Nunez, A., 2023, SSRN: Social Science Research Network, 34 p.

Reforestation policies around 2000 in southern China led to forest densification and expansion in the 2010s

Tong, Xiaowei, Brandt, Martin Stefan, Yue, Y., Zhang, Xiaoxin, Fensholt, Rasmus, Ciais, P., Wang, K., Liu, Siyu, Zhang, Wenmin, Mao, C. & Jepsen, Martin Rudbeck, 2023, In: Communications Earth and Environment. 4, 8 p., 260.

Naturpligt skal sikre mere og vildere natur i Danmark

Baaner, Lasse, Bruun, Hans Henrik, Vejre, Henrik, Møller, Peter Rask, Båstrup-Spohr, Lars, Krøijer, Stine, Larsen, K. C., Kjølter, Rasmus, Strange, Niels, Jepsen, Martin Rudbeck & Heilmann-Clausen, Jacob, 3 Jun 2022, Altinget.dk.

Våd natur kan give væsentlig klimaeffekt – men på lang sigt

Christiansen, Jesper Riis, Jepsen, Martin Rudbeck, Ambus, Per Lennart, Elberling, Bo, Mueller, Carsten W., Bruun, Sander, Busck, Anne Gravsholt, Jensen, Lars Stoumann, Bruun, Hans Henrik, Krøijer, Stine, Jessen, Nina Toudal, Jessen, Søren & Stisen, S., 25 May 2022, BIO (DM).

Lavbundslande

Jepsen, Martin Rudbeck, 2022, In: Geografisk Orientering. 52, 3, p. 24-27

Sociopolitical drivers and environmental outcomes of protected area downgrading and degazettement in Cambodia

Ford, S. A., Persson, Joel Gustav, Jepsen, Martin Rudbeck & Mertz, Ole, 2022, In: Regional Environmental Change. 22, 4, 12 p., 114.

Cyclone Komen's aftermath: Local knowledge shows how poverty and inequalities fuel climate risk in western Myanmar
Kmoch, L., Palm, M., Persson, U. M. & Jepsen, Martin Rudbeck, Dec 2021, In: *Regional Environmental Change*. 21, 4, 15 p., 111.

Hvis Danmark vil hjælpe Myanmars befolkning, må regeringen være kreativ

Gaborit, L. S., Kmoch, L., Mortensen, Sofie, Vang, J., Jefferson, A. M., Russell, H., Bundgaard, J., Jørgensen, A. B., Kyed, H., Chiu, Francesca, Gravers, M., Jepsen, Martin Rudbeck, Martin, T. M., Pohl Harrison, A., Pravalprukskul, Pin, Trifkovic, Neda, Cakal, E. & Barbesgaard, M., 28 Feb 2021, In: *Politiken*. p. 5 (sektion 2) 1 p.

Access mapping highlights risks from land reform in upland Myanmar

Kmoch, L., Palm, M., Persson, U. M. & Jepsen, Martin Rudbeck, 2021, In: *Journal of Land Use Science*. 16, 1, p. 34-54 21 p.

Ecosystem Service Provision by Secondary Forests in Shifting Cultivation Areas Remains Poorly Understood

Mertz, Ole, Bruun, Thilde Bech, Jepsen, Martin Rudbeck, Ryan, C. M., Zaehring, J. G., Hinrup, J. S. & Heinemann, A., 2021, In: *Human Ecology: An Interdisciplinary Journal*. 49, p. 271–283 13 p.

The water consumption of different diets in Denmark

Kassem, R., Jepsen, Martin Rudbeck & Salhofer, S. P., 2021, In: *Journal of Cleaner Production*. 286, 124938.

Understanding land use volatility and agglomeration in northern Southeast Asia

Rao, Y., Zhang, J., Wang, K. & Jepsen, Martin Rudbeck, 2021, In: *Journal of Environmental Management*. 278, Pt 1, 11 p., 111536.

Farmscape composition and livelihood sustainability in deforested landscapes of colombian amazonia

Pérez Marulanda, Lisset, Lavelle, P., Jepsen, Martin Rudbeck, Castro-Nunez, A., Francesconi, W., Camilo, K., Vanegas-Cubillos, M., Romero, M. A., Suárez, J. C., Solarte, A. & Quintero, M., 1 Dec 2020, In: *Agriculture*. 10, 12, p. 1-20 20 p.

Campylobacter infections expected to increase due to climate change in Northern Europe

Kuhn, K. G., Nygård, K. M., Guzman-Herrador, B., Sunde, L. S., Rimhanen-Finne, R., Trönnberg, L., Jepsen, Martin Rudbeck, Ruuhela, R., Wong, W. K. & Ethelberg, Steen, 2020, In: *Scientific Reports*. 10, 1, 13874.

Deforestation leakage undermines conservation value of tropical and subtropical forest protected areas

Ford, S. A., Jepsen, Martin Rudbeck, Kingston, N., Lewis, E., Brooks, T. M., Macsharry, B. & Mertz, Ole, 2020, In: *Global Ecology and Biogeography*. 29, 11, p. 2014-2024 11 p.

Forest management in southern China generates short term extensive carbon sequestration

Tong, Xiaowei, Brandt, Martin Stefan, Yue, Y., Ciais, P., Jepsen, Martin Rudbeck, Penuelas, J., Wigneron, J. P., Xiao, X., Song, X. P., Horion, Stéphanie, Rasmussen, Kjeld, Saatchi, S., Fan, L., Wang, K., Zhang, B., Chen, Z., Wang, Y., Li, X. & Fensholt, Rasmus, 2020, In: *Nature Communications*. 11, 1, 10 p., 129.

Large scale reforestation of farmlands on sloping hills in South China karst

Yue, Y., Liao, C., Tong, Xiaowei, Wu, Z., Fensholt, Rasmus, Prishchepov, Alexander V., Jepsen, Martin Rudbeck, Wang, K. & Brandt, Martin Stefan, 2020, In: *Landscape Ecology*. 35, p. 1445–1458 14 p.

Hvad skaber rurale succeser og hvor langt rækker brandet? Eksemplificeret ved Torup landsby i Halsnæs kommune

Jepsen, Martin Rudbeck & Busck, Anne Gravsholt, 2019, Frederiksberg: Institut for Geovidenskab og Naturforvaltning, Københavns Universitet. 26 p. (IGN Rapport).

Spatial determinants and underlying drivers of land-use transitions in European Russia from 1770 to 2010

Matasov, V., Prishchepov, Alexander V., Jepsen, Martin Rudbeck & Mueller, D., 2019, In: *Journal of Land Use Science*. 14, 4-6, p. 362-377 16 p.

What Awaits Myanmar's Uplands Farmers? Lessons Learned from Mainland Southeast Asia

Jepsen, Martin Rudbeck, Palm, M. & Bruun, Thilde Bech, 2019, In: *Land*. 8, 2, 23 p., 29.

Archetypical patterns and trajectories of land systems in Europe

Levers, C., Müller, D., Erb, K., Haberl, H., Jepsen, Martin Rudbeck, Metzger, M. J., Meyfroidt, P., Plieninger, T., Plutzer, C., Stürck, J., Verburg, P. H., Verkerk, P. J. & Kuemmerle, T., 1 Mar 2018, In: *Regional Environmental Change*. 18, 3, p. 715-732 18 p.

Distance to pig farms as risk factor for community-onset livestock-associated MRSA CC398 infection in persons without known contact to pig farms—A nationwide study

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Carbon Stocks across a Fifty Year Chronosequence of Rubber Plantations in Tropical China

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Dependency on aquaculture in northern Vietnam

Le Minh, H., Phan, V. T., Nghia, N. H. & Jepsen, Martin Rudbeck, 2017, In: *Aquaculture International*. 25, 2, p. 881-891 11 p.

Hotspots of land use change in Europe

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A Review of the Application of Optical and Radar Remote Sensing Data Fusion to Land Use Mapping and Monitoring

Joshi, N., Baumann, M., Ehammer, A., Fensholt, Rasmus, Grogan, K., Hostert, P., Jepsen, Martin Rudbeck, Kuemmerle, T., Meyfroidt, P., Mitchard, E. T. A., Reiche, J., Ryan, C. M. & Waske, B., Jan 2016, In: *Remote Sensing*. 8, 1, 70.

Characteristics and drivers of forest cover change in the post-socialist era in Croatia: evidence from a mixed-methods approach

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Population-level impact, herd immunity, and elimination after human papillomavirus vaccination: a systematic review and meta-analysis of predictions from transmission-dynamic models

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Transitions in European land-management regimes between 1800 and 2010

Jepsen, M. R., Kuemmerle, T., Müller, D., Erb, K., Verburg, P. H., Haberl, H., Vesterager, J. P., Andrič, 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. & 28 others, Elena-Rosselló, R., Gimmi, U., Izakovicova, Z., Jančák, 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., Trévik, A. M., Trzepakcz, P., Vadineanu, A., Walz, A., Zhllima, E. & Reenberg, A., Dec 2015, In: *Land Use Policy*. 49, p. 53-64 12 p.

Decrease in Danish semi-natural grassland: a social construct or a real-world change?

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Gingrich, S., Niedertscheider, M., Kastner, T., Haberl, H., Cosor, G., Krausmann, F., Kuemmerle, T., Müller, D., Reith-Musel, A., Jepsen, Martin Rudbeck, Vadineanu, A. & Erb, K. H., 1 Sep 2015, In: *Land Use Policy*. 47, p. 426-438 13 p.

Carbon stock of oil palm plantations and tropical forests in Malaysia: A review

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Greenlandic sheep farming controlled by vegetation response today and at the end of the 21st Century

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Past experience with the EU Common Agricultural Policy and future challenges for landscape development: institutional obstacles, with focus on Denmark in European perspective

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Interpretation of scenario results in terms of described and mapped land change trajectories and archetypes: (Deliverable No: 11.2: / EC Contract Ref: FP7-ENV-2010-265104)

Kuemmerle, T., Stürck, J., Levers, C., Müller, D., Erb, K., Gingrich, S., Jepsen, Martin Rudbeck, Kastner, T., Verkerk, P. J. & Verburg, P. H., 2014, *VOLANTE*. 166 p.

Report on comparative analysis: Deliverable No 4.5

Kastner, T., Gingrich, S., Niedertscheider, M., Jepsen, Martin Rudbeck & Erb, K., 2014, *VOLANTE*. 29 p.

A conceptual framework for analysing and measuring land-use intensity

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