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## Short presentation

My research focus is the interrelations between **soil hydrology**, **biogeochemistry** and **microbial communities** and how environmental changes affect soils ability to produce clean water and store greenhouse gases. My research focuses on fundamental understanding of greenhouse gas cycling in soils, developing new methods for greenhouse gas detection and applied aspects in relation to management practices and climate mitigation tools. Besides doing research, I am teaching in bachelor and master courses in the subjects of field methods, ecosystem hydrology and soil biogeochemistry. I am also supervising bachelor and master students projects within hydrology and biogeochemistry.

## Publications

### Mikro-organismer i jorden vender op og ned på methanregnskabet

Elberling, Bo, D'Imperio, Ludovica & Christiansen, Jesper Riis, 2024, In: *Aktuel Naturvidenskab.* 2024, 1, p. 36-40

### Spatial variation of net methane uptake in Arctic and subarctic drylands of Canada and Greenland

Juncher Jørgensen, C., Schlaikjær Mariager, T. & Christiansen, Jesper Riis, 2024, In: *Geoderma.* 443, 12 p., 116815.

### Constraining sources and sinks of subglacial methane from the Greenland ice sheet using clumped isotopes

Adnew, G. A., Schroll, M., Sapper, Sarah Elise, Röckmann, T., Popa, M. E., Jørgensen, C. J., Keppler, F., van der Veen, C., Sivan, M., Blunier, Thomas & Christiansen, Jesper Riis, 2023. 2 p.

### First measurement of methane emissions from Canadian glaciers in the Yukon

Sapper, Sarah Elise, Jørgensen, C. J., Schroll, M., Keppler, F. & Christiansen, Jesper Riis, 2023.

### Klimaeffekter ved genopretning af hydrologi i skove

Christiansen, Jesper Riis & Burns, Rachel Eleanor, 2023, Frederiksberg: Institut for Geovidenskab og Naturforvaltning, Københavns Universitet. 49 p. (IGN Rapport; No. juni 2023).

### Methane emissions from subglacial meltwater of three alpine glaciers in Yukon, Canada

Sapper, Sarah Elise, Jørgensen, C. J., Schroll, M., Keppler, F. & Christiansen, Jesper Riis, 2023, In: *Arctic, Antarctic, and Alpine Research.* 55, 1, 13 p., 2284456.

### Methylotrophic Communities Associated with a Greenland Ice Sheet Methane Release Hotspot

Znamíkko, M., Falteisek, L., Vrbická, K., Klímová, P., Christiansen, Jesper Riis, Jørgensen, C. J. & Stibal, M., 2023, In: *Microbial Ecology.* 86, 4, p. 3057-3067

### Seasonal dynamics of canopy interception loss within a deciduous and a coniferous forest

Andreasen, Mie, Christiansen, Jesper Riis, Sonnenborg, Torben Obel, Stisen, S. & Zibar, Majken Caroline Looms, 2023, In: *Hydrological Processes.* 37, 4, 16 p., 14828.

### Spatial controls of methane uptake in upland soils across climatic and geological regions in Greenland

D'Imperio, Ludovica, Li, B., Tiedje, J. M., Oh, Y., Christiansen, Jesper Riis, Kepfer Rojas, Sebastian, Westergaard-Nielsen, Andreas, Brandt, Kristian Koefoed, Holm, Peter Engelund, Wang, P., Ambus, Per Lennart & Elberling, Bo, 2023, In: *Communications Earth & Environment.* 4, 1, 10 p., 461.

**The IceWorm: an improved low-cost, low-power sensor for measuring dissolved CH<sub>4</sub> in water bodies**  
Christiansen, Jesper Riis, Sapper, Sarah Elise & Jørgensen, C. J., 2023. 2 p.

**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).

**A strong temperature dependence of soil nitric oxide emission from a temperate forest in Northeast China**

Huang, K., Su, C., Liu, D., Duan, Y., Kang, R., Yu, H., Liu, Y., Li, X., Gurmessa, G. A., Quan, Z., Christiansen, Jesper Riis, Zhu, W. & Fang, Y., 2022, In: Agricultural and Forest Meteorology. 323, 11 p., 109035.

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**Climate mitigation potential and soil microbial response of cyanobacteria-fertilized bioenergy crops in a cool semi-arid cropland**

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**Disentangling long-term and short-term temperature response of carbon fluxes in a subarctic grassland ecosystem exposed to long-term, geothermal warming**

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**Spatiotemporal variability of CO<sub>2</sub>, CH<sub>4</sub> and N<sub>2</sub>O fluxes over a soil hydrological gradient reveal soil water-temperature interactions on biogeochemical pathways**

Christiansen, Jesper Riis & Larsen, Klaus Steenberg, 2022. 1 p.

**Subglacial methane cycling under the Greenland Ice Sheet**

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**Temporal relationship between meltwater discharge and CH<sub>4</sub> and CO<sub>2</sub> emissions from the Greenland Ice Sheet**

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**Inferring ecosystem-level rates of gross primary productivity, respiration, and evapotranspiration with automatic light-dark measurement chambers**

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**Global Research Alliance N<sub>2</sub>O chamber methodology guidelines: Design considerations**  
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**High-resolution, ecosystem-level CO<sub>2</sub>, H<sub>2</sub>O and CH<sub>4</sub> fluxes with novel automatic light/dark chamber**  
Larsen, Klaus Steenberg, Jørgensen, P. & Christiansen, Jesper Riis, 2019, In: Geophysical Research Abstracts. 21, 1 p., EGU2019-5594.

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Felby, C., Christiansen, Jesper Riis, Bentsen, Niclas Scott & Skov, Simon, 2018, In: Forskning i Bioenergi, Brint & Brændselceller. 15, 63, p. 3-6 4 p.

**To replicate, or not to replicate: Should we shift to unreplicated multi-level designs in ecological experimentation?**  
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**To replicate, or not to replicate - that is the question: how to tackle nonlinear responses in ecological experiments**  
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**Analyzing the hydrological impact of afforestation and tree species in two catchments with contrasting soil properties using the spatially distributed model MIKE SHE SWET**

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**Site preparation and fertilization of wet forests alter soil bacterial and fungal abundance, community profiles and CO<sub>2</sub> fluxes**

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**Forest canopy water fluxes can be estimated using canopy structure metrics derived from airborne light detection and ranging (LiDAR)**

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**Conversion of cropland to forest increases soil CH<sub>4</sub> oxidation and abundance of CH<sub>4</sub> oxidizing bacteria with stand age**

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**Comparison of static chambers to measure CH<sub>4</sub> emissions from soils**

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**Mere vand i skoven: giver mere gas i atmosfæren**

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