

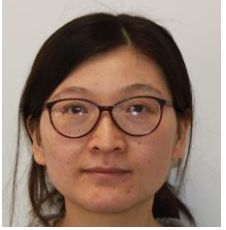















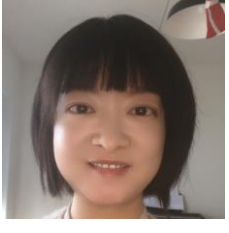


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|    | <p><b>Bent Tolstrup Christensen</b>, Professor Emeritus</p> <p><b>Key research competences</b></p> <ul style="list-style-type: none"> <li>• Soil carbon storage and management</li> <li>• Soil particle size separation</li> <li>• Stable isotopes (<math>^{13}\text{C}</math>, <math>^{15}\text{N}</math>) in biogeochemical research</li> <li>• Fertilization and heavy metals</li> <li>• Long-term field experiments</li> </ul> <p><b>Key infrastructure responsibilities</b></p> <ul style="list-style-type: none"> <li>• The Askov long-term experiments</li> <li>• Research platform: changes in abundance of <math>^{13}\text{C}</math> (C3- to C4 crops)</li> </ul>  |
|    | <p><b>Christian Dold</b>, Tenure Track Assistant Professor</p> <p><b>Key research competences</b></p> <ul style="list-style-type: none"> <li>• Soil carbon and nitrogen dynamics</li> <li>• Greenhouse gas measurements on different scales</li> <li>• Soil-plant-atmosphere interactions</li> <li>• Arable cropping, grasslands, agroforestry</li> </ul> <p><b>Key infrastructure responsibilities</b></p> <ul style="list-style-type: none"> <li>• GHG measurements at Foulumgaard</li> </ul>  |
|  | <p><b>Chun Ma</b>, Postdoc</p> <p><b>Key research competences</b></p> <ul style="list-style-type: none"> <li>• Stable isotope techniques (<math>^{15}\text{N}</math>, <math>^{13}\text{C}</math>, and <math>^{18}\text{O}</math>)</li> <li>• Nitrogen cycling in aquatic and engineered systems</li> <li>• Wastewater treatment processes</li> <li>• <math>\text{N}_2\text{O}</math> production pathways and mitigation</li> </ul> <p><b>Key infrastructure responsibilities</b></p> <ul style="list-style-type: none"> <li>• Methane oxidation and emission during manure storage</li> <li>• Quantify methane production rates of different farms</li> </ul>  |
|  | <p><b>Elly Møller Hansen</b>, Senior Researcher</p> <p><b>Key research competences</b></p> <ul style="list-style-type: none"> <li>• Measurements of nitrate leaching, yields, and N-uptake in field experiments</li> <li>• Effect of catch crops with and without nitrogen fixing species</li> <li>• Effect of soil tillage and crop rotations, including Conservation Agriculture</li> <li>• Effect of mineral N-fertilizer applications on marginal leaching</li> </ul> <p><b>Key infrastructure responsibilities</b></p> <ul style="list-style-type: none"> <li>• The long-term CENTS experiment (reduced tillage and catch crops)</li> <li>• The VIRKN experiment (fertilizer applications and plant cover autumn)</li> <li>• Research-based policy support</li> </ul> |
|  | <p><b>Franca Giannini Kurina</b>, Postdoc</p> <p><b>Key research competences</b></p> <ul style="list-style-type: none"> <li>• Applied statistics for environmental soil science</li> <li>• Predictive models on soil processes</li> <li>• Geostatistics and spatial data analysis</li> </ul> <p><b>Key infrastructure responsibilities</b></p> <ul style="list-style-type: none"> <li>• Soil carbon and nitrogen dynamics models</li> </ul>  |

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|    | <p><b>Ingeborg Frøsig Pedersen</b>, Postdoc</p> <p><b>Key research competences</b></p> <ul style="list-style-type: none"> <li>• Phosphorus dynamics in soil</li> <li>• Plant uptake of phosphorus and rhizosphere processes</li> <li>• Utilization of phosphorus in organic fertilizers</li> <li>• Placement of fertilizers</li> </ul>  |
|    | <p><b>Ingrid Kaag Thomsen</b>, Senior Researcher</p> <p><b>Key research competences</b></p> <ul style="list-style-type: none"> <li>• C and N turnover in soil</li> <li>• Decomposition of applied organic matter</li> <li>• Catch crops</li> <li>• Nitrate leaching</li> </ul> <p><b>Key infrastructure responsibilities</b></p> <ul style="list-style-type: none"> <li>• LessN experiment (leaching from faba bean)</li> <li>• Research-based policy support</li> </ul>  |
|   | <p><b>Iris Vogeler</b>, Senior Researcher</p> <p><b>Key research competences</b></p> <ul style="list-style-type: none"> <li>• Arable cropping</li> <li>• Process based modelling</li> <li>• Nitrogen cycling, leaching and gaseous emissions</li> <li>• Transport processes in soils</li> <li>• Grassland systems</li> </ul> <p><b>Key infrastructure responsibilities</b></p> <ul style="list-style-type: none"> <li>• Farm systems modelling</li> </ul>   |
|  | <p><b>Jorge Federico Miranda Vélez</b>, Postdoc</p> <p><b>Key research competences</b></p> <ul style="list-style-type: none"> <li>• Crop modelling</li> <li>• Hydrological modelling</li> <li>• Nitrogen cycling in agricultural soils</li> <li>• Nitrogen transport and leaching in soils</li> <li>• Soil structure and structural functions</li> </ul> <p><b>Key infrastructure responsibilities</b></p> <ul style="list-style-type: none"> <li>• The CENTS long-term reduced tillage and crop rotation experiment (analysis of results and data management)</li> </ul> |
|  | <p><b>Jørgen Eriksen</b>, Professor, Head of section</p> <p><b>Key research competences</b></p> <ul style="list-style-type: none"> <li>• Soil nitrogen dynamics</li> <li>• Sulphur cycling in agriculture</li> <li>• Stable and radioactive isotopes</li> <li>• Dairy crop rotations</li> <li>• Grasslands</li> </ul> <p><b>Key infrastructure responsibilities</b></p> <ul style="list-style-type: none"> <li>• Organic dairy crop rotation at Foulumgaard</li> <li>• Research-based policy support</li> <li>• Research labs</li> </ul>                                  |

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|    | <p><b>Lars Elsgaard</b>, Associate Professor</p> <p><b>Key research competences</b></p> <ul style="list-style-type: none"> <li>• Temperature effects in soil microbial ecology</li> <li>• Microbial metabolism of C, N, and S</li> <li>• Effects of biochar on greenhouse gas emissions</li> <li>• Pathways of nitrate transformation</li> <li>• Net ecosystem exchange of greenhouse gases in peat soils</li> </ul> <p><b>Key infrastructure responsibilities</b></p> <ul style="list-style-type: none"> <li>• Lysimeter facilities for biochar studies</li> <li>• Carbon analyses from national square grid net</li> <li>• MicroResp for microbial carbon source analyses</li> </ul> |
|    | <p><b>Lars Juhl Munkholm</b>, Professor</p> <p><b>Key research competences</b></p> <ul style="list-style-type: none"> <li>• Soil structure dynamics</li> <li>• Soil structure-root growth interactions</li> <li>• Soil structure influence on greenhouse gas emissions and carbon storage</li> <li>• Soil management impacts on crop growth and the environment</li> </ul> <p><b>Key infrastructure responsibilities</b></p> <ul style="list-style-type: none"> <li>• Long-term experiments on crop rotation and tillage at Foulum and Flakkebjerg</li> <li>• Long-term experiment on soil compaction at Aarslev and Flakkebjerg</li> </ul>  |
|  | <p><b>Loraine ten Damme</b>, Postdoc</p> <p><b>Key research competences</b></p> <ul style="list-style-type: none"> <li>• Impact of field traffic on soil structure</li> <li>• Influence of soil management strategies on soil structure</li> </ul> <p><b>Key infrastructure responsibilities</b></p> <ul style="list-style-type: none"> <li>• Measurements of soil mechanical properties</li> </ul>  |
|  | <p><b>Marie Reimer</b>, Postdoc</p> <p><b>Key research competences</b></p> <ul style="list-style-type: none"> <li>• Soil carbon and nitrogen dynamics</li> <li>• Fertilisation in organic farming systems</li> <li>• Soil-plant atmosphere modelling</li> <li>• Heavy metal pollution</li> </ul> <p><b>Key infrastructure responsibilities</b></p> <ul style="list-style-type: none"> <li>• Soil-plant-atmosphere modelling</li> </ul>   |
|  | <p><b>Peter Sørensen</b>, Professor</p> <p><b>Key research competences</b></p> <ul style="list-style-type: none"> <li>• Nitrogen cycling in agriculture</li> <li>• Utilisation and losses of N and P in manures and organic wastes</li> <li>• Stable isotopes in nitrogen research</li> <li>• Nitrate leaching from manures and fertilisers</li> <li>• Organic crop rotations</li> </ul> <p><b>Key infrastructure responsibilities</b></p> <ul style="list-style-type: none"> <li>• Organic arable crop rotation at Foulumgaard</li> </ul>   |

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|    | <p><b>Søren O. Petersen</b>, Professor</p> <p><b>Key research competences</b></p> <ul style="list-style-type: none"> <li>• Microbial ecology of soil and manure environments</li> <li>• Nitrous oxide - emissions and regulation</li> <li>• Methane - production and oxidation</li> <li>• Membrane lipid analysis of soil biota</li> </ul> <p><b>Key infrastructure responsibilities</b></p> <ul style="list-style-type: none"> <li>• Research platform: Pilot-scale manure storage facility</li> </ul>  |
|    | <p><b>Uttam Kumar</b>, Postdoc</p> <p><b>Key research competences</b></p> <ul style="list-style-type: none"> <li>• Agronomy and crop physiology</li> <li>• Process-based modelling<br/>Interactions of crop and N input for reduced leaching and emissions</li> <li>• Cereal and cover crops</li> </ul> <p><b>Key infrastructure responsibilities</b></p> <ul style="list-style-type: none"> <li>• Farm systems modelling</li> </ul>   |
|   | <p><b>Winnie Ntinyari</b>, Postdoc</p> <p><b>Key research competences</b></p> <ul style="list-style-type: none"> <li>• Nitrogen cycling in cropping systems</li> <li>• Nitrous oxide emissions measurement</li> <li>• Agronomy and farm systems modelling</li> <li>• Data management and analysis</li> </ul>   |
|  | <p><b>Zhi Liang</b>, Assistant Professor</p> <p><b>Key research competences</b></p> <ul style="list-style-type: none"> <li>• Carbon and nitrogen dynamic in soils</li> <li>• Soil managements and greenhouse gas emissions</li> <li>• Isotope approaches</li> <li>• Soil microbial ecology</li> </ul> <p><b>Key infrastructure responsibilities</b></p> <ul style="list-style-type: none"> <li>• MicroResp for microbial carbon source analyses</li> <li>• Soil enzyme assays</li> <li>• Phospholipid-derived fatty acids</li> <li>• Soil fractionation</li> <li>• Multiple pulse labelling approach with <math>^{13}/^{14}\text{CO}_2</math></li> </ul> |