

Curriculum Vitae and motivation

Name: Svend Christensen

Position: Professor, University of Copenhagen

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Research Area:

My academic journey began with basic research in crop physiology and crop-weed competition during my PhD and postdoc. This led to my research on weed sensing and site-specific weed management, earning recognition in international weed science and precision agriculture circles. Currently, I focus on crop imaging for phenotyping species and varieties and advancing precision agriculture.

Education:

1993: PhD, The Royal Veterinary and Agricultural University

1988: M.Sc. Agr., The Royal Veterinary- and Agricultural University

Positions:

Since 2008: Professor, Head of Department of Plant and Environmental Science, Faculty of Science, University of Copenhagen

2007-2008: Professor, Head of Department, Institute of Chemical Engineering, Biotechnology and Environmental Technology, Faculty of Engineering, University of Southern Denmark

2000-2007: Research Director, Department of Agricultural Engineering, Danish Institute of Agricultural Sciences

1995-2000: Senior Scientist, Department of Crop Protection, Danish Institute of Agricultural Sciences

1988-1995: Researcher, Department of Crop Protection, Danish Institute of Agricultural Sciences

Recent Grants, Projects, and Networks:

Co-applicant and work package leader: The MATRIX: Microbiome Assisted Triticum Resilience In X-dimensions, funded by the Novo Nordisk Foundation

Project coordinator: Nordic Public Private Partnership Plant Phenotyping Project with several Nordic private breeding companies and universities (<https://nordicphenotyping.org/>)

Work package leader: AnaEE Denmark – a Danish infrastructure for experimental ecosystem research funded by the Danish Ministry of Science and Education

Project coordinator: Danish Research Council Project 'Robotic Weeding'

Project partner: EU-project 'Reducing or eliminating agrochemical inputs in the efficient production of high-quality produce with conventional, sustainable and organic farming systems'

Chairing the Collaborative Working Group on 'ICT and Robotics in Agriculture and related Industries' under the European Commission's Standing Committee for Agricultural Research (SCAR)

Project coordinator: Danish Research Council Project 'Weed suppression ability of spring barley varieties.'

Collaborations with private Companies:

Chairman of the Plant Biologicals Network with 24 Scandinavian large and small private and public partners (<http://plantbiologicals.dk/>)

Chairperson of Nordic Baltic Plant Phenotyping Network with several Nordic and Baltic private breeding companies and universities (<https://nordicphenotyping.org/>)

Partner in the project 'Future Cropping' funded by the Innovation Foundation Denmark with several private and public partners (<https://futurecropping.dk/om-future-cropping/>)

Collaboration with the Danish Agricultural Advisory Services SEGES in the past 3 decades on several strategic research projects.

Publications:

In total, I have published 62 peer-reviewed articles in international journals (Scopus H-index 25, Google Scholar H-index 32, i10-index 65), 57 articles in national or international conference proceedings, and more than 100 articles and interviews in technical journals, farmers' magazines, reports, and other outreach activities. Selected publications in the past 3 years are:

- Christensen S and Jensen S (2023) Unravelling the Complexities of Genotype-Soil-Management Interaction for Precision Agriculture. *Agronomy* 13(11), 2727; <https://doi.org/10.3390/agronomy13112727>
- Lati RN, Gerhards R, Eizenberg H, Matzrafi M, Blank L and Christensen (2022). Advances in precision application technologies for weed management, In book: *Advances in integrated weed management* (pp. 229-254), Burleigh Dodds Chapters Online, DOI:10.19103/AS.2021.0098.10
- Gerhards R, Sanchez D.A., Hamouz P, Peteinatos G.G., Christensen S and Fernandez-Quintanilla C (2022) Advances in site-specific weed management in agriculture—A review. *Weed Research* DOI: 10.1111/wre.12526
- Christensen S, Dyrmann N, Laursen MS, Jørgensen RN, and Rasmussen J (2021) Sensing for Weed Detection. *Sensing Approaches for Precision Agriculture*. Springer, Cham. 275-300.
- Rasmussen J, Azim S, Boldsen SK, Nitschke T, Jensen SM, Nielsen J, and Christensen S. (2021) The challenge of reproducing remote sensing data from satellites and unmanned aerial vehicles (UAVs) in the context of management zones and precision agriculture. *Precision Agriculture*, 834-851
- Svendsgaard J, Jensen SM, Christensen S & Rasmussen J. (2021) The importance of spectral correction of UAV-based phenotyping with RGB cameras. *Field Crop Research* 269.