# *C u r r i c u l u m  V i t a e*


# *Johannes Albertsson*

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## *EDUCATION*

**2010 - 2014** *PhD* (Subject: Agricultural Science / Lantbruksvetenskap), Swedish University of Agricultural Sciences. The primary objective of the thesis was to determine the possibilities to improve the environmental profile of willow (a bioenergy crop) by omitting the use of herbicides during establishment. Therefore, one study in the thesis investigated whether 12 willow clones differed in their ability to compete with weeds and whether this ability was affected by cutting back the first-year shoots. Another study compared the efficiency of cover crops and mechanical weed control methods with those of the present weed control practice in willow. To account for clonal differences in response to these control measures, two different willow clones were compared in that study. During my doctoral studies, I taught statistics and pest and disease control to undergraduate students. I graduated in October 2014.

**2002 - 2008** *Master of Science in Horticulture*, Swedish University of Agricultural Sciences, Sweden, 300 ECTS. Focus of studies: Plant protection and environmental issues.

**1993 - 1995** *Electrical Engineering Telecommunications*, Växjö University, Sweden, 120 ECTS

## *WORK EXPERIENCE*

**2018 - ongoing** *Researcher,* Swedish University of Agricultural Sciences. I mainly work as a station manager at Lönnstorp research station with a project named SITES (Swedish Infrastructure for Ecosystem Science). SITES is a national infrastructure for ecosystem research that facilitates long-term, world-class field based ecosystem research. I'm also the course leader of a 15 hp programme course (BI1253) in the Agricultural and Rural Management Bachelor´s Degree Programme. In addition, I'm involved in other courses e.g. Horticultural Production Systems (BI1143) and Sustainable Production Systems in a Global Perspective (BI1192). Furthermore, I have supervised and examined numerous bachelor's and master's theses.

**2015 - 2018** *Post doc,* Swedish University of Agricultural Sciences. I worked in a European project named Climate-CAFÉ. My focus in this project was to obtain new knowledge from Swedish long-term experiments regarding climate change adaptability of different cropping systems. I also took part in workshops together with farmers for design of innovative cropping systems that will have a high adaptive capacity to climate change. Furthermore, I taught classes in basic statistics and weed management.

**2014 - 2015** *Research Assistant*, Swedish University of Agricultural Sciences. I studied the weed succession in willow plantations and how the biomass production of different willow clones was affected by site and management methods. I was also involved in a project together with the Technical Research Institute of Sweden (SP) that investigated how the moisture content in willow shoots varies during a year.

**2010 - 2014** *PhD-student,* Swedish University of Agricultural Sciences. See education above.

**2008 - 2010** *Research Assistant*, Swedish University of Agricultural Sciences. I studied different methods to apply physically acting pesticides in fruit and berry production. I was also involved in projects that studied nutrient management issues in potato production.

**2008** *Project Coordinator*, Swedish University of Agricultural Sciences. I worked with different research- and development projects at the Garden Laboratory (Alnarp).

## *COMPETENCES*

Bioenergy, Biomass, Renewable Energy, Willow, Short Rotation Coppice, Weeds, Weed Management, Weed competitiveness, Statistics, Cropping Systems, Climate Change, Agronomy, Teaching.

## *SELECTED PUBLICATIONS*

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**2024** Hansson, D., Albertsson, J. & Carlsson, G. (2024). *Odlingsåtgärder och sortval i vårsådd spannmål för att begränsa renkavle*. LTV-fakultetens faktablad 2024:13. Alnarp: Sveriges lantbruksuniversitet, Institutionen för biosystem och teknologi. DOI: https://doi.org/10.54612/a.7l78e12v4v. *[Report]*.

**2023** Bouras, E.h., Olsson, P.-O., Thapa, S., Díaz, J.M., Albertsson, J., Eklundh, L. (2023) Wheat Yield Estimation at High Spatial Resolution through the Assimilation of Sentinel-2 Data into a Crop Growth Model. *Remote Sens*. 2023, 15, 4425. *[Journal article]*.

**2022** Reckling, M., Albertsson, J., Vermue, A., Carlsson, G., Watson C.A., Justes E., Bergkvist G., Jensen, E.S., & Topp C.F.E. (2022). Diversification improves the performance of cereals in European cropping systems. *European cropping systems. Agron. Sustain*. Dev. 42, 118. *[Journal article]*.

**2019** Reckling M., Albertsson J., Topp C.F.E., Vermue A., Carlsson G., Watson C., Justes, E., Bergkvist, G., Jensen E.S. (2019). Does cropping system diversification with legumes lead to higher yield stability? Diverging evidence from long-term experiments across Europe. *European Conference on Crop Diversification 18-21 September 2019, Budapest, Hungary. [Conference Paper]*.

**2016** Albertsson, J., Verwijst, T., Rosenqvist, H., Hansson, D., Bertholdsson, N-O. & Åhman I (2016). Effects of mechanical weed control or cover crop on the growth and economic viability of two short-rotation willow cultivars. *Biomass and Bioenergy,* 91, 296-305. *[Journal article]*.

**2015** Stephan JG, Albertsson J, Wang L & Porcel M (2015). Weeds within willow short-rotation coppices alter the arthropod community and improve biological control of the blue willow beetle. BioControl, 61, 103-114. *[Journal article]*.

**2015** Verwijst, T. & Albertsson, J. (2015). Assumptions made in protocols for shoot biomass estimation of short-rotation willow clones underlie differences in results between destructive and non-destructive methods. *Bioenergy Research, 8, 1424-1432. [Journal article]*.

**2014** Albertsson, J., Verwijst, T., Hansson, D., Bertholdsson, N-O. & Åhman I. (2014). Effects of competition between short-rotation willow and weeds on performance of different clones and associated weed flora during the first harvest cycle. *Biomass & Bioenergy*, 70, 364–372. *[Journal article]*.

**2014** Albertsson, J. (2014) Impact and control of weeds in biomass willow clones (2014). Swedish University of Agricultural Sciences, Acta Universitatis agriculturae Sueciae, 1652-6880 ; 2014:63 *[Dissertation]*

**2014** Albertsson, J., Hansson, D., Bertholdsson, N-O. & Åhman I. (2014). Site-related set-back by weeds on the establishment of 12 biomass willow clones. *Weed Research,* 54(4), 398-407. *[Journal article]*.

**2013** Verwijst, T., Lundkvist, A., Edelfeldt, S. & Albertsson, J. (2013). Development of sustainable willow short rotation forestry in northern Europe. In: Matovic, M.D. (ed.) *Biomass Now - Sustainable Growth and Use*. InTech, pp. 479-502. *[Book chapter]*