

February 21, 2011

CURRICULUM VITAE for

Matti Pastell, born 15th of April 1981.

ADDRESS

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CURRENT POSITION

University lecturer, Department of Agricultural Sciences, University of Helsinki. Since August 2008

DOCENTSHIPS

Docent of Agricultural and Environmental Engineering, University of Helsinki 2009

PREVIOUS PROFESSIONAL APPOINTMENTS

- Post Doctoral Researcher, Dep of Agrotechnology. University of Helsinki. January - July 2008
- Researcher, Dep. Of Agtechnology. University of Helsinki June 2004 - December 2007
- Guest scientist, Technical University of Denmark (DTU) January - March 2007
- Trainee, Dep. Of Agtechnology. University of Helsinki January - April 2004

EDUCATION

- Master of Science. Agricultural engineering. University of Helsinki 2005
- Dr. of Agriculture and Forestry. University of Helsinki 2007 Dissertation: "Automatic Lameness Detection in a Milking Robot: Instrumentation, measurement software, algorithms for data analysis and a neural network model"

RECEIVED PROJECT FUNDING

- Subproject coordinator: SORJAT - Early Detection and Prevention of Lameness in Dairy Cattle, 2009 - 2012. Share of the project funding 150 000 euro. Funded by Ministry of Agriculture.
- Subproject coordinator: REMOWELL - New welfare technologies in monitoring health and welfare of production animals, 2010. Share of the project funding 50 000 euro. Funded by Ministry of Agriculture.

PARTICIPATION IN RESEARCH PROJECTS

- Interrobo. Animal welfare measurement methods. 2005. EU Interreg-project.
- Kartek-Tekno. Automatic monitoring of animal health and welfare. 2005-2007. Funded by Ministry of Agriculture.
- Sika-Tekno. Technology to supervise the farrowing of pigs . 2005-2007. Funded by Ministry of Agriculture.
- ECOSTALL -Emissions from uninsulated cold dairy buildings. 2005-2007. EU - project.
- Turkey welfare during transportation - 2008. Funded by Ministry of Agriculture.

SUPERVISED PROJECTS

- Currently supervising three PhD students:
 - Petro Tamminen, Department of Agrotechnology
 - Johanna Häggman, Department of Animal Science
 - Ann-Helena Hokkanen, Department of Production Animal Medicine
- 5 Masters thesis in Agrotechnology and Animal Science (2006–2010)
- 1 Masters thesis in Signal processing, Technical University of Helsinki (2006)

MOST IMPORTANT INTERNATIONAL VISITS

- Invited teacher in PhD level course "Biosystems Instrumentation" in the University of Copenhagen. 20 - 30.10.2009.
- Guest scientist for 3 months in the Technical University of Denmark (DTU). 1.1.-31.3.2007
- Several research visits to Estonian University of Life Sciences. In total of 4 weeks during 2005-2007.
- Lameness workshop in Ghent, Belgium. 3-5.12.2007
- ASABE annual meeting in Portland, USA and research visits to: Washington state university, Iowa state university and University of Minnesota. 9-23.7.2006

OTHER SCIENTIFIC ACTIVITIES

Expert tasks

- Reviewer for International Journals: *Journal of Dairy Science*, *Biosystems Engineering*, *Computers and Electronics in Agriculture*, *Journal of Equine Veterinary Science*.
- Evaluator for the European Commission in Seventh Framework Programme, Call KBBE-2010.
- Reviewer for "Precision Livestock Farming'09" Conference.
- Reviewer for funding applications of "Industrial Research Fund K.U Leuven" 2009.
- Vice member in board of the "Foundation of Agricultural Machinery Research" (Maatalouskoneiden tutkimussäätiö) 2007 -
- Member of the ISO/TC23/SC19/WG3 "animal identification" working group. 2006 -

Invited talks

- Keynote speech "Application of Precision Livestock Farming to promote animal welfare". 22nd Nordic Symposium of the International Society for Applied Ethology 20-22 January 2010. Kuopio, Finland.
- Invited lecture "Technical Prospects for Automated Behavioral Monitoring" in Workshop: "Welfare monitoring using automatic measurement of behaviour", ISAE conference 4-7 August 2010. Uppsala, Sweden.

Scientific positions of trusts and administration

- Member of the Finnish milking machine committee (Lypsykonetoimikunta). 2007-
- Member of the Board of Department of Agrotechnology 1.1.2008-
- Member of the Board of the Finnish Society of Applied Ethology 1.1.2008-
- President of the Technical Committee of The Scientific Agricultural Society of Finland 1.6.2008-
- Member of the Board of the Experimental Farm of University of Helsinki. 1.1.2007-

TEACHING

- In charge of M.Sc course "Measurement Technology", 7 ect. (2010)
- In charge of M.Sc course "Automation in agricultural machinery", 15 ect. (2006, 2008)
- Course "Livestock production technology", 10 ect. (2004, 2006, 2008, 2010)
- Lectures in courses "Research practises in agrotechnology", "Introduction to animal production", and "Modelling, numerical solution and simulation of biosystems".