

# Curriculum vitae for Kjell Danell

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## PERSONAL

- Born: 1 December 1946 at Luleå, Norrbottens län, Sweden
- Nationality: Swedish
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- Address, work: Department of Wildlife, Fish and Environmental Studies, Swedish University of Agricultural Sciences (SLU), SE-901 83 Umeå, Sweden; mobile phone: +46 (0)70 3747979; e-mail: [kjell.danell@slu.se](mailto:kjell.danell@slu.se)

## ACADEMIC CREDENTIALS

- Doctor of philosophy in Zoology: Ecological Zoology, University of Umeå 1978. Thesis: Ecology of muskrat in northern Sweden. Supervisor: professor Arne Lindroth
- Associate professor (docent) in Wildlife Ecology, Swedish University of Agricultural Sciences 1981

## CURRENT AND RECENT EMPLOYMENTS

- Professor (faculty position, 100 %) in Wildlife Ecology, Department of Wildlife, Fish and Environmental Studies, Faculty of Forest Sciences, Swedish University of Agricultural Sciences (SLU), SE-901 83 Umeå 1998-2012; professor emeritus and part-time employment 2012-
- Deputy director of the Swedish Council for Forestry and Agricultural Research (20 %) 2000

## RESEARCH INTERESTS

- Plant-animal interactions, especially the impact of large herbivores on biodiversity and ecosystem processes; population dynamics of mammals; community ecology on scales from habitat to global; nature conservation in boreal forests, especially dead-wood – insect communities; management of natural resources; history of wildlife and their management

## POSTGRADUATE STUDENTS GAINING DOCTORAL/LICENTIATE DEGREES

- Karen Marie Mathisen 2011. Indirect effects of moose on the birds and the bees
- Caroline Lundmark 2008. Morphological and behavioural adaptations of moose to climate, snow and forage
- Märtha Wallgren 2008. Mammal community structure in a world of gradients
- Berit Inga 2008. Traditional knowledge among Saami reindeer herders (licentiate)
- Anders Mårell 2006. Summer feeding behavior of reindeer: A hierarchical approach
- Maria Hörnell-Willebrand 2005. Temporal and spatial dynamics of willow *grouse Lagopus lagopus*
- Tuulikki Rooke 2003. Defenses and responses: Woody species and large herbivores in African savannas
- Inga-Lill Persson 2003. Moose population density and habitat productivity as drivers of ecosystem processes in northern boreal forests

- Margareta Bergman 2001. Ungulate effects on their food plants: Responses depending on scale
- Birgitta Aava-Olsson 2001. Plant productivity: A predictor of animal species and community characteristics. Ecological patterns from local to global scale
- Göran Ericsson 1999. Demographic and life history consequences of harvest in a Swedish moose population
- Otso Suominen 1999. Mammalian herbivores, vegetation and invertebrate assemblages in boreal forests (University of Turku)
- Jonas Bergquist 1998. Influence by ungulates on early plant succession and forest regeneration in south Swedish spruce forests
- Roger B. Pettersson 1997. Lichens, invertebrates and birds in spruce forests
- Juan Gowda 1996. Plant defenses. Influence on plant-animal interactions in Eastern Africa
- Jingbo Jia 1996. Moose living strategies (University of Helsinki)
- Per Nelin 1994. Radiocesium in Swedish moose
- Lars Edenius 1992. Interactions between a large generalist herbivore, the moose, and Scots pine
- Ola Atlegrim 1991. Interactions between bilberry (*Vaccinium myrtillus*) and a guild of insect larvae in boreal forest
- Joakim Hjältén 1991. Food selection by small mammalian herbivores and its impact on plant populations

## POST-DOCTORS RECEIVED

- Heikki Roininen 1994, 1999
- Martin Predavec 1995
- Lisa Shipley 1996-1997
- Heloise Gibb 2003-2004
- Jacek Hilszczáński 2003-2004
- Sofia Åkerman 2003-2004

## EXTERNAL EXAMINING

*University-appointed opponent at public defense of doctoral theses*

- Kari Bjørneraas 2010. Spatiotemporal variation in resource utilization by a large herbivore, the moose. The Norwegian University of Science and Technology, Department of Biology, Trondheim
- Hilde Karine Wam 2010. Bio-economic aspects of moose: forage interactions – gains and compromises of interdisciplinary research. The Norwegian University of Science and Technology, Department of Ecology and Natural Resource Management, Trondheim
- Snorre Henriksen 2007. Spatial and temporal variation in herbivore resources at northern latitudes. The Norwegian University of Science and Technology, Department of Biology, Trondheim
- Michael den Herder 2003. Impact of ungulates in boreal forest and subarctic tundra ecosystems in Finland. University of Joensuu, Faculty of Forestry, Joensuu

- Thomas G. Berg 2003. The collared lemming (*Dicrostonyx groenlandicus*) in Greenland: Population dynamics and habitat selection in relation to food quality. University of Copenhagen, Department of Population Ecology, Copenhagen
- Olav Hjeljord 1997. Moose (*Alces alces*) habitat quality – an empirical approach. Agricultural University of Norway, Department of Biology and Nature Conservation, Ås
- Kari Lehtilä 1994. Implications of plant structure for plant-animal interactions and plant life-history strategies. University of Turku, Department of Biology, Turku
- Petri Nummi 1992. Habitat requirements of ducks: Varying patterns of habitat distribution and breeding success. University of Helsinki, Department of Zoology, Helsinki
- Helga Jonsdottir Vivås 1989. Theoretical models of activity pattern and optimal foraging: predictions for the moose (*Alces alces*). University of Trondheim, Department of Zoology, Trondheim
- Urban Wästljung 1988. Seed predation in relation to stand size and crop size in hazel *Corylus avellana* L. and beech *Fagus sylvatica* L. University of Uppsala, Department of Zoology, Uppsala

*Membership of examining committees at public defense of doctoral theses*

- Jonas Malmsten 2014. Reproduction and health of moose in southern Sweden. Swedish University of Agricultural Sciences, Department of Clinical Sciences, Uppsala
- Anna Christiernsson 2011. Rättens förhållande till komplexa och dynamiska ekosystem – En studie om rättsliga förutsättningar för adaptiv och ekosystembaserad reglering och planering för bevarande av biologisk mångfald vid jakt. Luleå Tekniska Universitet, Institutionen för ekonomi, teknik och samhälle, Luleå
- Rik van Bogaert 2010. Recent treeline dynamics in sub-Arctic Sweden: A multidisciplinary landscape assessment. Gent University, Faculty of Sciences, Gent
- Kristoffer Hylander 2004. Living on the edge: Effectiveness of buffer strips in protecting biodiversity in boreal riparian forests. Umeå University, Department of Ecology and Environmental Science, Umeå
- Per Eckerholm 2003. Population dynamics of tundra-living grey-sided voles. Umeå University, Department of Ecology and Environmental Science, Umeå
- Timothy Hipkiss 2002. Brood sex ratio and sex differences in Tengmalm's owl (*Aegolius funereus*). Umeå University, Department of Ecology and Environmental Science, Umeå
- Johan Olofsson 2001. Long term effects of herbivory on tundra ecosystems. Umeå University, Department of Ecology and Environmental Science, Umeå
- Michael Schneider 2000. Implications for space for trophic interactions in North Fennoscandian terrestrial systems. Umeå University, Department of Ecology and Environmental Science, Umeå
- Ewa Wahlström 2000. Size-dependent planktivory. Effects of zooplankton community structure and primary producers. Umeå University, Department of Ecology and Environmental Science, Umeå
- Erik W. Andersson 1999. Gain and diversity in multi-generation breeding programs. Swedish University of Agricultural Sciences, Department of Forest Genetics and Plant Physiology, Umeå

- Per Eliasson 1999. The place's glance: The Royal Academy of Sciences and scientific travel, 1790-1840. Umeå University, Department of Historical Studies, Umeå
- Clas Alm 1998. Distribution of puumala virus in Sweden. Umeå University, Department of Infectious Diseases, Umeå
- Mattias Boman 1997. Forest environmental economics. General framework, contingent valuation methodology, and welfare analyses of threatened species. University of Agricultural Sciences, Department of Forest Economics, Umeå
- Per Leffler 1996. Cadmium induced kidney dysfunction in rodents and its relevance to biomonitoring – experimental and environmental findings. Umeå University, Department of Occupational and Environmental Medicine and the Department of Environmental Health, Umeå
- Jep Agrell 1995. Female and social behavior, reproduction and population dynamics in a non-cyclic population of the field vole (*Microtus agrestis*). University of Lund, Department of Ecology
- Oskar Kindvall 1995. Ecology of the bush cricket *Metrioptera bicolor* with implications for metapopulation theory and conservation. Swedish University of Agricultural Sciences, Uppsala
- Ola Löfgren 1995. Interactions between social factors and resources in the population dynamics of cyclic voles. Umeå University, Department of Animal Ecology, Umeå
- Sebastian Diehl 1994. Implications of omnivory and habitat complexity for aquatic community structure. Umeå University, Department of Animal Ecology, Umeå
- Kristina Johnsson 1993. The black woodpecker *Dryocopus martius* as a keystone species in forest. Swedish University of Agricultural Sciences, Department of Wildlife Ecology, Uppsala
- Jon Moen 1993. Herbivory and plant community structure in a subarctic altitudinal gradient. Umeå University, Department of Ecological Botany, Umeå
- Göran Sjöberg 1993. Nesting and migration in the introduced Canada goose in Sweden. University of Umeå, Department of Animal Ecology, Umeå
- Christer Björkman 1991. Interactions between a pine sawfly, its host and natural enemies as mediated by plant chemicals. Swedish University of Agricultural Sciences, Department of Plant and Forest Protection, Uppsala
- Olle Söderström 1988. The function of seasonal habitat shifts in two congeneric mayflies in a boreal river. University of Umeå, Department of Animal Ecology, Umeå
- Thomas R. Palo 1987. Phenols as defensive compounds in birch (*Betula* spp.). Implications for digestion and metabolism in browsing mammals. Swedish University of Agricultural Sciences, Department of Animal Nutrition, Uppsala
- Lars Söderström 1987. The regulation of abundance and distribution pattern of bryophyte species on decaying logs in spruce forests. University of Umeå, Department of Ecological Botany, Umeå
- Anders Angerbjörn 1986. Population dynamics of mountain hares, *Lepus timidus* L., on islands. University of Stockholm, Department of Zoology, Stockholm
- Per Lundberg 1985. The annual cycle organization in birds – a case study of two north Scandinavian starling *Sturnus vulgaris* populations. University of Umeå, Department of Ecological Zoology, Umeå

- Rolf Brittas 1984. Temporal variations in nutrition and body condition of Swedish willow grouse (*Lagopus lagopus* L.) in relation to their reproductive success. Uppsala University, Department of Zoophysiology, Uppsala
- Anders Nilsson 1984. Habitats, life cycles and larval morphology of the northern European Agabini (Coleptera: Dytiscidae). University of Umeå, Department of Ecological Zoology, Umeå

## **LEADERSHIP OF ADMINISTRATIVE UNITS, UNIVERSITY DEPARTMENTS, RESEARCH STATIONS, CENTERS ETC.**

- *The Royal Skytte Society*: Board member 2009-2015
- *Swedish Biodiversity Center*, Uppsala University and Swedish University of Agricultural Sciences: Board member 2001-2009, Deputy chairman 2004, Chairman 2008-2009
- *Center for Fish and Wildlife Research (CFW)*, Swedish University of Agricultural Sciences: Founder, Board member 2000-2004
- *Faculty for Forestry/Faculty of Forest Sciences*, Swedish University of Agricultural Sciences: Board member 1999, 2003-2006
- *Climate Impacts Research Centre*, Environment and Space Research Institute, Kiruna: Board member 1996-2000
- *Abisko Research Station*, The Royal Academy of Sciences: Board member 1995-2003
- *Ammarnäs Research Station*, The County Administration of Västerbotten: Board member 1995-2003
- *Department of Animal Ecology*, Swedish University of Agricultural Sciences: Chairman 1992-1999, Deputy chairman 1999-2006

## **MEMBERSHIP OF RESEARCH ADVISORY BOARDS**

### *Swedish research advisory boards*

- *International Foundation for Science*: Member of evaluation committee 2014
- *Carl Tryggers Stiftelse*: Board member 2012-
- *Mistra - Foundation for Strategic Environmental Research*: Member of innovative group 2010-2011
- *The Swedish Research Council: National Committee for the International Polar Year 2007-2008*: Board member 2006-2009
- *The Royal Skytte Society: Price committee for Young Scientists*: Board member 2002-2009
- *The Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning (Formas)*: Board member 2001-2006
- *The Swedish Foundation for International Cooperation in Research and Higher Education (STINT)*: Member of evaluation committee 1999-2004
- *Environmental Science Center*: Board member 1987-1996
- *National Swedish Environment Protection Board: Section of Environmental Impact of Energy Production and Use*: Member of evaluation group 1980-1981; *Section of Wildlife Ecology*: Member of evaluation committee 1988-1993; *Project Group on Wildlife Disease*: Member of evaluation group 1994-1995
- *Swedish Council for Forestry and Agricultural Research (SJFR): Section of Ecology and Environmental Research*: Member of evaluation committee 1993-1995

- *Faculty of Forestry, Swedish University of Agricultural Sciences: Program committee number 5: Member of evaluation group 1989-1993*

#### *Research advisory boards outside Sweden*

- *Norwegian Centre for International Cooperation in Education (SIU): Member of evaluation committee 2014-2016*
- *Joint Scientific Committee for ICSU and WMO for the International Polar Year 2007-2008: Elected member by ICSU and WMO 2005-2009*
- *Second International Conference on Arctic Planning (ICARP): Member of working group 2005-2006*
- *European Platform for Biodiversity Research Strategy: Swedish delegate 2002-2006*
- *Finnish Forest Research Institute (METLA): Scientific Advisory Board: Board member 2002-*
- *Finnish Academy of Sciences: Scientific Advisory Board for Ecological Sciences: Board member 2000-2005*
- *Norwegian Research Council: Board member of committees and special adviser 1995-2004*

### **OTHER DUTIES**

- *The Science Council of Sweden: Infrastructures for field-based research: Investigator 2010-2011; Adjunct member of interim board 2013*
- *Price Committee for Kempe Award for Distinguished Ecologists: Founder, Chairman 1994-2000*
- *Committee for The Environment, The Royal Swedish Academy of Sciences: Member 2001-2005; Deputy chairman 2003-2005*
- *Reviewer of research applications outside Sweden: e.g. European Science Foundation; Finnish Academy of Science; Israel Science Foundation; National Environment Research Council, United Kingdom; Natural Sciences and Engineering Research Council of Canada (NSERC); U.S. Department of Agriculture; U.S. National Science Foundation*
- *Reviewer for positions as professors and lecturers at universities in Finland, Norway, Sweden and USA*
- *Member of recruitment committees, e.g. vice-chancellor and pro-rector of the Swedish University of Agricultural Sciences 2005*

### **MEMBERSHIP OF EDITORIAL BOARDS**

- *Swedish Wildlife Research 1981-1985*
- *Zoologisk Revy 1973-1974*

### **REFEREE FOR SCIENTIFIC JOURNALS**

E.g. *Acta Oecologia, Acta Theriologica, Ambio, American Midland Naturalist, Annales Zoologici Fennici, Auk, Biological Conservation, Canadian Journal of Forest Research, Canadian Journal of Zoology, Conservation Ecology, Ecography, Ecology, Ecological Bulletins, Ecological Monographs, Ecology and Society, Ecoscience, Forest Ecology and Management, Functional Ecology, Global Change Biology, Holarctic Ecology, Journal of Animal Ecology, Journal of Applied Ecology, Journal of Biogeography, Journal of Ecology, Journal of Range Management, Journal of Zoology, Journal of Vegetation Science, Nature, Naturwissenschaften, Oikos, Ornis Scandinavica, Proceedings of the*

National Academy of Sciences of the United States of America, Scandinavian Journal of Forest Research, Swedish Wildlife Research, Trees, Structure and Function and Wildlife Biology.

## **ORGANIZER OF NATIONAL AND INTERNATIONAL SYMPOSIA AND WORKSHOPS, 1999-**

- *6<sup>th</sup> International Moose Symposium, Yakutsk 2008*: Deputy chairman of the International Program Committee
- *Arctic Observing Systems, Stockholm 2007*: Co-chair with Sverker Sörlin on behalf of The National Swedish Science Council
- *International Union of Game Biologists, Uppsala 2007*: Member of Organizing Committee
- *Restoration of Boreal Forests for Biodiversity, Umeå 2004*: Organizer with Lena Gustavsson
- *5<sup>th</sup> International Moose Symposium, Öyer 2002*: Member of Scientific Organizing Committee
- *The Impact of Large Mammalian Herbivores on Biodiversity, Ecosystem Structure and Function, Hällnäs 2002*: Organizer with Roger Bergström, Patrick Duncan, Han Olff and John Pastor
- *4<sup>th</sup> Ecology Symposium at Umeå, Hällnäs 2001*: Organizer with Christian Otto
- *3<sup>rd</sup> Ecology Symposium at Umeå, Hällnäs 1999*: Organizer with Christian Otto
- *Biodiversity and Boreal Forests, Olofsfors 1999*: Organizer with Pekka Niemelä, Stig Larsson and Kjell Sjöberg
- *3<sup>rd</sup> European Congress of Mammalogy, Jyväskylä 1999*: Member of Scientific Committee; Organizer of symposium on Plant-Animal Interactions with George Batzli
- *Cervids and Biodiversity, Hällnäs 1999*: Organizer with Roger Bergström and Pekka Niemelä

## **HONORS, AWARDS, MEMBERSHIPS OF ROYAL SOCIETIES**

- *Swedish Hunter's Association*: Gold Decoration 2016
- *Swedish University of Agricultural Sciences*: The Major Gold Medal 2016
- *North American Conferences*: Distinguished Moose Biologist 2011
- *University of Turku*: Honorary Doctor in philosophy, with sward 2008
- *The Royal Swedish Academy for Agriculture and Forestry*: The Gold Medal 2009
- *The Royal Swedish Academy for Agriculture and Forestry*: Elected member 2004
- *The Royal Skytte Society*: Elected member 2001
- *Colorado State University, Fort Collins*: Distinguished Ecologist Lecturer 1995