

Thomas Madsen, Professor

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School of Molecular and Microbial
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University of Sydney
NSW 2006
Australia

Positions held

Graduate scholarship 1983-1986 (funded by the Swedish Science Council and the Department of Animal Ecology, University of Lund, Sweden).

Post doctoral fellow, 1989-1991, School of Biological Sciences, the University of Sydney, Australia (funded by the Australian Research Council).

Research associate, 1992-2000, School of Biological Sciences, the University of Sydney, Australia (funded by the Australian Research Council).

Senior Research fellow, 2001-2003 School of Biological Science, the University of Sydney, Australia (funded by the Australian Research Council).

Professorial fellow, 2004-2005 School of Biological Science, the University of Wollongong, Australia (funded by the Australian Research Council).

Current

Honorary Professorial Fellow, School of Biological Sciences, University of Wollongong, Australia.

Honorary Professorial Fellow, School of Molecular and Microbial Biosciences, University of Sydney, NSW 2006, Australia

Qualifications

1978 BSc University of Lund, Sweden.

1987 PhD University of Lund, Sweden.

2003 Professor University of Wollongong, Australia

Teaching Experience

1982 - 1987 Lecturer in Animal Ecology, University of Lund, Sweden

1999 – 2003 Lecturer in Conservation Biology, University of Lund, Sweden

Supervision

1986 - 1992 Ph.D. student: Mats Olsson (currently professor at University of Sydney, Australia).

2001 - 2004 Ph.D. student: Tobias Uller (currently research fellow at University of Oxford, UK).

2001 – 2004. Post-doc supervisor of Dr Beata Ujvari.

1991 - 2003 Co-supervision of numerous honours and PhD students in Prof. Richard

Shine's lab, The University of Sydney

Awarded research grants

Graduate scholarship 1983 - 1986 (funded by the Swedish Science Council and the Department of Animal Ecology, University of Lund, Sweden).

1992 - 2000 Australian research Council. Discovery grants (together with Prof. R. Shine).

2002 - 2003 The Swedish Science Council, (together with M. Olsson).

2001 – 2003 Australian Research Council, Senior Research Fellowship.

2003 – 2005 Australian Research Council, Professorial fellowship.

Referee and Editorial appointments

I regularly review manuscripts for high-ranking scientific journals such as *American Naturalist*, *Proceedings of the Royal Society of London*, *Journal of Animal Ecology*, *Molecular Ecology*, *Ecology and Evolution*.

I am reader for the Australian Research Council and I am also frequently consulted as a referee on research proposals by NERC (UK) and NSF (USA).

Member of Editorial boards

I am an associate editor for the following journals:

Molecular Ecology

Behavioral Ecology and Sociobiology

Amphibia-Reptilia

Seminars and Symposium Contributions (*invited guest speaker)

1982 - *Seminar: Seasonal distribution and movements in a population of grass snakes (*Natrix natrix*) in southern Sweden. 2nd Nordic symposium on herpetology. University of Gothenburg, Sweden

1984 - Seminar: Cost of reproduction and life-history tactics in a population of grass snakes (*Natrix natrix*) in southern Sweden. 3:th Symposium of the Swedish Society of Ecology OIKOS, Lund

1986 - *Seminar: Male reproductive success in the adder (*Vipera berus*). University of Victoria, British Columbia, Canada

1988 - *Seminar: On the role of colour display and spatial organization of male rainbow lizards, *Agama agama*. University of Pretoria, Republic of South Africa

1989 - *Seminar: Reproductive success in the adder (*Vipera berus*). First World Congress of Herpetology, Canterbury, U.K.

1993 - *Seminar: Costs of reproduction influence the evolution sexual size dimorphism in snakes. Second World Congress of Herpetology, Adelaide, Australia

1993 - *Seminar: Determinants of mating success in male adders (*Vipera berus*). Second World Congress of Herpetology, Adelaide, Australia

1993 - *Seminar: 'Biggest mobs' of snakes – water pythons (*Liasis fuscus*) in the Top End. Second World Congress of Herpetology, Adelaide, Australia

1993 - *Seminar: Water pythons (*Liasis fuscus*) in the Top End – a viable commercial resource? Second World Congress of Herpetology, Adelaide, Australia

1995 - *Seminar: *Tyrannosaurus rex* was an endotherm, studies on pythons and rats in tropical Australia. Australian Herpetological Society meeting held in Yungaburra, Qld.

Australia

2000 - *Seminar: Genetic restoration of an inbred population of adders (*Vipera berus*).

Conference title: 'Biology of vipers' organized by the University of Uppsala

2001 - *Consultancy and seminar concerning the effect of inbreeding depression in isolated populations. Invited by the Hungarian National Environmental Protection Board, Budapest, Hungary

2002 - *Seminar: Predators and prey interactions on a tropical Australian floodplain. St. Istvan, Budapest, Hungary

2002 - *Seminar: Population genetics and conservation biology. (Invited review of my, M. Olsson's and B. Ujvari's work). University of Gothenburg, Sweden

2003 - *Seminar and genetic consultancy concerning the protection of the Italian meadow vipers (*Vipera ursinii*). Invited by the Italian National Environmental Protection Board, Rome, Italy

2006 - *Seminar: Inter- and intra-specific variation in squamate toad toxin resistance. CRC/CSIRO/QLD NRM&W Cane toad workshop, Australia

2006 - Seminar. Pathogens and evolutionary immunology: a study of ageing in a natural population. Molecular Genetics of Aging, Cold Spring Harbour Laboratory, USA

2007 - Seminar. Why do short pythons have short telomeres? Telomeres and Telomerase, Cold Spring Harbour Laboratory, USA

2007 - Seminar. Sex specific geneflow in frillneck lizards (*Chlamydosaurus kingii*), Evolution, Christchurch, New Zealand

2007 - Seminar. Cane toad (*Bufo marinus*) toxin resistance in goannas. Genetics Society of Australasia, 54th Annual Conference, The University of Sydney, Australia

2007 - Seminar. Effects of an invasive toxic prey on the genetics of a naïve native squamate predator: cane toads and goannas in the NT. Genetics Society of Australasia, 54th Annual Conference, The University of Sydney, Australia.

2009 - Plenary lecture 5th Snake ecology group meeting, Donnelly, Idaho, USA.

2010 - Plenary lecture 3rd Biology conference of vipers, University of Pisa, Italy.

Non-academic qualifications

Filming, editing and producing two nature documentaries for Swedish television.

During my scientific career I have, on numerous occasions, been invited as biologist on several radio and TV shows both in Sweden and Australia and furthermore several TV documentaries have been made of my ongoing fieldwork both in Sweden and Australia.