

Personalia

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Education

Ph.D., Cum Laude, Leiden University, October 1998
M.Sc. in biology, Utrecht University, August 1993
B.Sc. in biology, Utrecht University, August 1990
Atheneum (sciences), Waddinxveen, June 1987

Present and previous positions

2002 - present	Universitair Docent (Assistent Professor) in Population Biology Animal Ecology, Vrije Universiteit, Amsterdam
1999 - 2001	Post-doctoral Research Fellow Center for Conservation Biology, Stanford University.
1998 - 1999	Post-doctoral Researcher Evolutionary Biology, University of Leiden.
1994 - 1998	Assistent in Opleiding (Ph.D. position) Animal Ecology, University of Leiden
1993 - 1994	Associate Researcher Plant Ecology & Evol. Biology, Utrecht University

Previous research experience

1999-2002	Local adaptation in <i>Colias</i> butterflies along an elevational gradient: consequences for reproductive isolation. A study into the role of local adaptation of life history and thermoregulatory characters in the process of reproductive isolation. With Dr. C.L. Boggs
1998-1999	Genetic population structure in tropical butterflies in different habitats. Analysis of population genetic structure and gene flow in <i>Bicyclus</i> spec. populations in Cameroon, using molecular techniques and mark-recapture experiments. With Prof. Dr. P.M. Brakefield and Dr. I.J. Saccheri.
1994-1998	Ph.D.-project: Life-history evolution in the parasitoid <i>Asobara tabida</i> : on the trade-off between reproduction and survival. A study into the most important habitat characteristics shaping life history strategies in the parasitic wasp <i>A. tabida</i> , focusing on geographic variation in the trade-off between reproduction and survival. Advisor: Dr. J.J.M. van Alphen.
1993-1994	Analysis of long-term data on geographic variation in morphology and

reproductive strategy of the Monkey Orchid (*Orchis simia*), and a literature study into the role of genetic erosion in the decline of orchid populations in The Netherlands. With Dr. J.H. Willems, Dr. J.C.M. den Nijs.

1990-1993 M. Sc. projects: Nutrient cycling and internal eutrophication in floating fens in Ireland (With Dr. Ir. B.G.H.J. Beltman, Dr. A.M. Kooijman). Social behaviour during adolescence of male semi-captive chimpanzees (With Dr. R.R.W.M. Derix, Dr. J.A.R.A.M. van Hooff). Metapopulations and the risks of genetic erosion in small populations (With Dr. J.H. Willems). Floristic evaluation of conservation projects in wet dune slacks (With Drs. C.T.M. Vertegaal, Dr. J.T.A. Verhoeven).

International collaborations

- **Dr. Carol Boggs** (Stanford University): Natural and sexual selection of wing colour
- **Dr. Jeff Harvey** (NIOO-CTE): Nutritional ecology of parasitoids
- **Dr. Ary Hoffmann** (Melbourne University): Genetics of temperature response in *Drosophila*
- **Dr. Mark Jervis** (Cardiff University): Life-history strategies in parasitoids
- **Dr. Hans Slabbekoorn** (Leiden University): Bird song and ecological speciation
- **Dr. Felix Wäckers** (NIOO-CTE): The evolution of traits with multiple functions

Teaching

Lecturer

- Lectures and Computer Practicals Evolutionary Ecology, Vrije Universiteit Amsterdam (2003)
- Lectures and Computer Practicals Population Biology, Vrije Universiteit Amsterdam (2002)
- Lectures and Practicals for three semesters of Animal Ecology, University of Leiden (1995-1997)

Predocctoral Supervisor

- Supervising of more than ten Predocctoral Research Projects, University of Leiden (1994-1998)

Teaching Assistent

- Two semesters of Statistics, Utrecht University. (1988, 1990)

Excursion Leader

- Three semesters of undergraduate Field Biology, University of Leiden (1995-1997)

Grants & Awards

2003 Research grant. € 600.000 (Netherlands Organization for Scientific Research, VIDI grant)

2002 Zoology Award of the Royal Dutch Zoological Society, € 2000

- 2001 Research equipment grant. \$1,500 (Center for Tropical Research, SFSU)
- 2000 Field assistant grant. \$3,500 (Stanford University Field Studies Program)
- 1999 Research grant. Hfl 69,000 (NATO research fellowship, TALENT grant)
- 1998 Ph.D., Cum Laude, Leiden University
- 1998 Research grant. Hfl 4,200 (Lucie Burgers foundation for comparative behaviour research)
- 1998 Travel grant. Hfl 2,000 (Uyttenboogaart-Eliassen foundation for entomological research)
- 1997 Travel grant. Hfl 1,700 (Leids Universitair Fonds)
- 1996 Travel grant. Hfl 2,000 (Uyttenboogaart-Eliassen foundation for entomological research)
- 1995 Travel grant. Hfl 1,200 (Netherlands Organization for Scientific Research)

Congresses, lectures, reviewing

- 2005 Department of Molecular Ecology, Radboud University Nijmegen, The Netherlands.
Evolution of phenotypic plasticity at the genomic level.
- 2004 International Conference of Entomology, Brisbane, Australia.
Evolution of wing color in butterflies: can local adaptation initiate ecological speciation?
- 2004 Center for Terrestrial Ecology, NIOO, Heteren, The Netherlands.
Selection and constraints on the evolution of wing colour
- 2002 Symposium "Adaptive strategies in heterogeneous environments", Royal Dutch Zoological Society.
Fat or eggs: The evolution of resource allocation in heterogeneous environments
- 2001 Dept. of Neurology, Physiology and Behavior, UC Davis, USA.
Song divergence and male dispersal: A model to test the impact of vocal learning
- 2001 Dept. of Entomology, University of Arizona, USA.
Reproductive strategies in insects: local adaptation across ecological gradients and its consequences for reproductive isolation
- 2001 Center for Tropical Research, San Francisco State University, USA.
Bird song divergence and song learning: a spatially explicit model
- 2000 Ecology, Behavior & Evolution, Dept of Biology, UC San Diego, USA.
The evolution of reproductive strategies in variable habitats
- 2000 Dept. of Entomology, University of Minnesota, USA.
The evolution of reproductive strategies in parasitoids
- 1998 Inst. for Evolutionary and Ecological Research, Leiden University, The Netherlands.
*Life-history evolution in the parasitoid *Asobara tabida**
- 1997 Functional Ecology Conference, Texel, The Netherlands.
*Plasticity in resource allocation in the parasitoid *Asobara tabida**

Publications

- **Ellers, J. & C.L. Boggs (2005)** Functional ecological implications of intraspecific differences in wing melanization in *Colias* butterflies. *Biol. J. Linn. Soc* **81**: in press.
- **Timmermans, M.J.T.N., J. Marien, D. Roelofs & N.M. van Straalen, J. Ellers (2005)** Evidence for multiple origins of Wolbachia infection in sprintails. *Pedobiologia*: in press.

- **Ellers, J. & C.L. Boggs (2003)** Male mate preference opposes adaptive wing color divergence in *Colias* butterflies. *Evolution*: in press. Abstract
- **Ellers, J. & M.A. Jervis (2003)** Body size and the timing of reproduction in parasitoid wasps: habitat-dependent allocation strategies. *Oikos* **102**: 164-172. Abstract
- **Ellers, J. & H. Slabbekoorn (2003)** Song divergence and male dispersal: A spatially explicit model to test the effect of song learning. *Anim. Beh.* **65**: 671-681. Abstract
- **Ellers, J. (2002)** Vleugelkleur en vlinderdiversiteit. *Entomologische Berichten* **62**: 151-155. Abstract
- **Slabbekoorn, H.W., J. Ellers & T.B. Smith (2002)** Bird song and sound transmission: the benefits of reverberations. *Condor* **104**: 564-573. Abstract
- **Ellers, J. & J.J.M. van Alphen (2002)** A trade-off between diapause duration and fitness in female parasitoids. *Ecol. Entomol.* **27**: 279-284. Abstract
- **Ellers, J. & C.L. Boggs (2002)** Evolution of wing color in *Colias* butterflies: heritability, sex-linkage, and population divergence. *Evolution* **56**: 836-840. Abstract
- **Ellers, J., M. Bax & J.J.M. van Alphen (2001)** Seasonal changes in female size and its relation to reproduction in the parasitoid *Asobara tabida*. *Oikos* **92**: 309-314. Abstract
- **Ellers, J., J.G. Sevenster, & G. Driessen (2000)** Egg load evolution in parasitoids. *Am. Nat.* **156**: 650-665. Abstract
- **Ellers, J., G. Driessen & J.G. Sevenster (2000)** The shape of the trade-off function between reproduction and survival in the parasitoid *Asobara tabida*. *Neth. J. Zool.* **50**: 29-36. Abstract
- **Beukeboom, L. & J. Ellers (2000)** The absence of complementary sex determination in two braconids, *Asobara tabida* and *Alysia manducator*. *Heredity* **84**: 29-36. Abstract
- **Ellers, J. (1998)** *Life-history evolution in the parasitoid Asobara tabida: on the trade-off between reproduction and survival*. Ph.D.-thesis, Leiden University, The Netherlands.
- **Sevenster, J.G., J. Ellers & G. Driessen (1998)** An evolutionary argument for time-limitation. *Evolution* **52**: 1241-1244. Abstract
- **Ellers, J., J.J.M. van Alphen, & J.G. Sevenster (1998)** A field study of the size-fitness relationships in the solitary parasitoid *Asobara tabida*. *J. Anim. Ecol.* **67**: 318-324. Abstract
- **Eijs, I.E.M., J. Ellers, & G.J. van Duinen (1998)** Feeding strategies in *Drosophila* parasitoids: the impact of natural food resources on energy reserves. *Ecol. Entomol.* **23**: 133-138. Abstract
- **Ellers, J. & J.J.M. van Alphen (1997)** Life history evolution in *Asobara tabida*: Plasticity in the allocation of fat reserves to survival and reproduction. *J. Evol. Biol.* **10**: 771-785. Abstract
- **Ellers, J. (1996)** Fat and eggs: an alternative method to measure the trade-off between survival and reproduction in insect parasitoids. *Neth. J. Zool.* **46**: 227-235. Abstract
- **Willems, J.H. & J. Ellers (1996)** Plant performance and population characteristics of *Orchis simia* in two extremes of its distribution area. *Flora* **191**: 41-48. Abstract
- **Vertegaal, C.T.M. & J. Ellers (1995)** Wilde flora en natuurontwikkeling in de duinen. *Gorteria* **21**: 117-120.
- **Beltman, B., A.M. Kooijman, J. Ellers & B.J. Oosterbeek (1992)** Nutrient availability and plant species composition of rich fens in the dune complex at Dooaghtry, Co. Mayo, Ireland. In: *Coastal dunes: geomorphology, ecology and*

management for conservation. (Ed. R.W.G. Carter, T.G.F. Curtis and M.J. Sheehy-Skeffington) p. 283-296.

Publications

- **J. Ellers, J. Mariën, G. Driessen and N.M. van Straalen (2008)** Temperature-induced gene expression associated with different thermal reaction norms for growth rate. *J. Exp. Zool. (Mol. Dev. Evol.)* **310B**: 137-147. [PDF file](#)
- **M.A. Jarvis, J. Ellers and J.A. Harvey (2008)** Resource acquisition, allocation, and utilization in parasitoid reproductive strategies. *Annu. Rev. Entomol.* **53**: 361-385. [PDF file](#)
- **M. Liefjting and J. Ellers (2008)** Habitat-specific differences in thermal plasticity in natural populations of a soil arthropod. *Biological Journal of the Linnean Society*, **94**: 265-271. [PDF file](#)
- **G. Driessen, J. Ellers and N.M. van Straalen (2007)** Variation, selection and heritability of thermal reaction norms for juvenile growth in *Orchesella cincta* (Collembola: Entomobryidae). *Eur. J. Entomol.* **104**: 39-46. [PDF file](#)
- **M.J.T.N. Timmermans, J. Ellers and N.M. van Straalen (2007)** Allelic diversity of metallothionein in *Orchesella cincta* (L.): traces of natural selection by environmental pollution. *Heredity* **98**: 311-319. [PDF file](#)
- **J. Ellers (2006)** *Verborgen variatie: de rol van fenotypische plasticiteit in evolutie*. Inaugural Address, Vrije Universiteit, Amsterdam. (in Dutch)
- **M.J.T.N. Timmermans, J. Ellers, D. Roelofs, N.M. van Straalen.** Metallothionein mRNA expression and cadmium tolerance in metal-stressed and reference populations of the springtail *Orchesella cincta*. *Ecotoxicology* **14**: 727–739. [PDF file](#)
- **M.J.T.N. Timmermans, J. Ellers, J. Mariën, S.C. Verhoef, E.B. Ferwerda, N.M. Van Straalen.** Genetic structure in *Orchesella cincta* (Collembola): Strong subdivision of European populations inferred from mtDNA and AFLP markers. *Mol. Ecol.* **14**: 2017–2024. [PDF file](#)
- **J. Ellers and C.L. Boggs (2004)** Evolutionary genetics of dorsal wing colour in *Colias* butterflies. *J. Evol. Biol.* **17**: 752-758. [PDF file](#)
- **J. Ellers and C.L. Boggs (2004)** Functional ecological implications of intraspecific differences in wing melanization in *Colias* butterflies. *Biol. J. Linn. Soc.* **82**: 79-87. [PDF file](#)
- **J. Ellers and M.A. Jarvis (2004)** Why are so few parasitoid wasp species pro-ovigenic? *Evol. Ecol. Res.* **6**: 993-1002. [PDF file](#)
- **M.J.T.N. Timmermans, J. Mariën, D. Roelofs, N.M. van Straalen and J. Ellers (2004)** Evidence for multiple origins of *Wolbachia* infection in springtails. *Pedobiologia* **48**: 469-475. [PDF file](#)
- **J. Ellers and C.L. Boggs (2003)** The evolution of wing color: male mate choice opposes adaptive wing color divergence in *Colias* butterflies. *Evolution* **57**(5): 1100-1106. [PDF file](#)
- **J. Ellers and M. Jarvis (2003)** Body size and the timing of egg production in parasitoid wasps. *Oikos* **102**: 164-172. [PDF file](#)
- **J. Ellers and H. Slabbekoorn (2003)** Song divergence and male dispersal among bird populations: a spatially explicit model testing the role of vocal learning. *Anim. Behav.* **65**: 671-681. [PDF file](#)
- **J. Ellers (2002)** Vleugelkleur en vlinderdiversiteit. *Entomologische Berichten* **62**: 151-155. (in Dutch)
- **J. Ellers and C.L. Boggs (2002)** The evolution of wing color in *Colias* butterflies: heritability, sex lineage and population divergence. *Evolution* **56**(4): 836-840. [PDF file](#)

- **J. Ellers and J.J.M. van Alphen (2002)** A trade-off between diapause duration and fitness in female parasitoids. *Ecol. Entomol.* **27**: 279-284. [PDF file](#)
- **H.W. Slabbekoorn, J. Ellers and T.B. Smith (2002)** Bird song and sound transmission: the benefits of reverberations. *Condor* **104**: 564-573. [PDF file](#)