

Erik Svensson
Population biology, micro- and macroevolution
BECC: Biodiversity and Ecosystem services in a Changing Climate
eSSENCE: The e-Science Collaboration



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Research

I am an evolutionary biologist, interested in the interface between ecology and evolutionary biology. My research programme has both theoretical and empirical components.

I explore problems such as how frequency-dependent processes maintains diversity, whether genetic polymorphisms or species in ecological communities. I also strive to understand how natural and sexual selection interact and affect population divergence, reproductive isolation and ultimately speciation and biodiversity. I am also interested in how phenotypic plasticity - including learning - can shape both population divergence and in population persistence and its role in evolutionary rescue vs. extinction by natural or sexual selection. We have also investigated how temperature affects natural and sexual selection and thereby local adaptation, biogeographic patterns and phenotypic evolution on micro- and macroevolutionary time scales.

Empirically, I focus on insects, particularly the order Odonata (dragonflies and damselflies) although I have also worked with other organisms, including birds (blue tits and ostriches), lizards and freshwater isopods.

In my research group, we combine classical population biological studies in nature with field and laboratory experiments, population and quantitative genetic approaches, measurements of selection, genomics, phenomics and phylogenetic comparative methods. Currently, we address various problems ranging from the role of hybridization in explaining the phylogenetic distribution of colour polymorphisms in damselflies, to how to understand the causes of "Lewontin's Paradox" in primates.

In recent years, we have increasingly adopted tools from Artificial Intelligence (AI), particularly Machine Learning (ML) and Computer Vision (CV) to quantify phenotypic variation and evolution.

Research group ("Svensson Lab")

Current PhD-students

Iain Moodie (co-advisor) Sofie Nilén (main advisor) Zachary Nolen (co-advisor)

Current postdocs

Guillaume Lavanchy Anna Penna Natalie Roberts Mikkel Skovrind

Alumni from my lab (many which I still collaborate with)

Moritz Luerig (former postdoc)

Masahito Tsuboi (former postdoc, Independent Researcher)

Stephen De Lisle (former postdoc, Junior Lecturer)

Lesley Lancaster (former postdoc, Professor)

Beatriz Willink (former PhD-student, Assistant Professor)

Anna Runemark (former PhD-student, Senior Lecturer)

Jessica Abbott (former PhD-student, Professor)

Kristina Karlsson Green (former PhD-student, Researcher)

Miguel Gomez-Llano (former postdoc, Junior Lecturer)

Viktor Nilsson-Örtman (former postdoc, Senior Lecturer)

Yuma Takahashi (former postdoc, Associate Professor)

Rachael Dudaniec (former postdoc, Senior Lecturer)

Fabrice Eroukhmanoff (former PhD-student)

Tom Gosden (former PhD-student)

Machteld Verzijden (former postdoc)

Natsu Katayama (former postdoc, Associate Professor)

Shawn Kuchta (former postdoc, Professor)

Katie Duryea (former postdoc, Associate Professor)

Benjamin Jarrett (former postdoc, Lecturer)

Employment

Professor

Population biology, micro- and macroevolution

Lund University

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2020 Oct 23 → present

Member of Strategic Research Area

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2023 Oct 2 → present

Professor

Biodiversity and Evolution

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2024 Apr 8 → present

Research outputs

Revisiting evolutionary rate–time relationships

De Lisle, S. P. & Svensson, E. I., 2026 Jan 1, In: *Evolution*. 80, 1, p. 28-39 12 p.

A century of theories of balancing selection

Ruzicka, F., Zwoinska, M. K., Goedert, D., Kokko, H., Li Richter, X. Y., Moodie, I. R., Nilén, S., Olito, C., Svensson, E. I., Czuppon, P. & Connallon, T., 2026, In: *Biological Reviews*. 101, 2, p. 804-825

Infrared thermography is a useful tool in research on thermoregulation and evolution of heat tolerance

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Ecology and sexual conflict drive the macroevolutionary dynamics of female-limited color polymorphisms in damselflies

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Thermal Plasticity in a Cross-Sexual Transfer Trait: Geographic Variation and Phenotypic Integration of Blue Wing Colour in Female Butterflies

Friberg, M., Pehrson, K., Mjörnman, K. & Svensson, E. I., 2025 Aug, In: *Ecology Letters*. 28, 8, e70190.

Predicting the prevalence of genetic trade-offs among adaptive substitutions

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Persistence of the ecological niche in pond damselflies underlies a stable adaptive zone despite varying selection

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De-Kayne, R., Schley, R., Barth, J. M. I., Campillo, L. C., Chaparro-Pedraza, C., Joshi, J., Salzburger, W., Van Bocxlaer, B., Cotoras, D. D., Fruciano, C., Geneva, A. J., Gillespie, R., Heras, J., Koblmüller, S., Matthews, B., Onstein, R. E., Seehausen, O., Singh, P., Svensson, E. I. & Salazar-Valenzuela, D. & 5 others, Vanhove, M. P. M., Wogan, G. O. U., Yamaguchi, R., Yoder, A. D. & Cerca, J., 2025 Feb, In: *Cold Spring Harbor perspectives in biology*. 17, 2, a041448.

Opsin gene expression plasticity and spectral sensitivity in male damselflies could mediate female colour morph detection

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Why high-condition males might be bad news for females and populations

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Out of the tropics: Macroevolutionary size trends in an old insect order are shaped by temperature and predators

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Computer Vision, Machine Learning, and the Promise of Phenomics in Ecology and Evolutionary Biology

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Extreme temperatures compromise male and female fertility in a large desert bird

Schou, M., Bonato, M., Engelbrecht, A., Brand, Z., Svensson, E., Melgar, J., Muvhali, P. T., Cloete, S. W. & Cornwallis, C., 2021 Feb 2, In: Nature Communications. 12, 10 p., 666 (2021) .

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Temperature drives pre-reproductive selection and shapes the biogeography of a female polymorphism

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Sexual conflict and intrasexual polymorphism promote assortative mating and halt population differentiation

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Precipitation drives global variation in natural selection

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2024 Apr 10

Liam Revell

Svensson, E. (Host)
2023 Mar 1 → 2023 Mar 31

Reproductive Divergence as a Driver of Speciation

Svensson, E. (Chair)
2023 Jan 31

Ny studie – därför kan en överhettad slända påverka ditt välbefinnande

Svensson, E. (Interviewee) & Rydén, D. (Lyricist)
2021 Jan 30

American Naturalist (Journal)

Svensson, E. (Editorial board member)
2021 → ...

High temperatures threaten the survival of insects

Svensson, E. (Interviewee)
2020 Nov 10

Bridging micro- and macroevolution in an old insect order

Svensson, E. (Lecturer)
2020 Oct 14

Därför går evolutionen snabbare

Svensson, E. (Interviewee)
2017 Jan 15

Evolution kan gå väldigt snabbt – när människan är inblandad

Svensson, E. (Interviewee)
2016 Dec 5

Prizes and Distinctions

The Swedish King's 50th anniversary foundation award

Svensson, E. (Recipient), 2003 Mar 15

Awards

Hur bevaras ärftlig variation i naturen?

Svensson, E. (PI)
Gyllenstiernska Krapperupsstiftelsen: SEK300,000.00
2026/04/24 → 2028/04/23