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Forskning

Jag är evolutionsbiolog, med särskilt intresse för gränslandet mellan ekologi och evolution. I min forskning fokuserar jag på hur s. k. frekvensberoende naturligt urval, samt hur naturligt och sexuellt urval och könskonflikter bibehåller genetisk variation över olika tidsskalor. Jag intresserar mig även för grundläggande evolutionsteori och vetenskapsfilosofi.

Mina huvudsakliga studieorganismer är insekter, framförallt flick- och trollsländor, men jag har även arbetat med flera andra organismer, bl. a. fåglar (strutsar, blåmesar), kräftdjur, kräldjur (ödlor), dykarskalbaggar och nyligen även med fjärilar. I min forskning kombinerar jag metoder från olika fält, bl. a. populations- och kvantitativ genetik, fylogenetiska jämförande metoder, genomik och bioinformatik samt metoder från Artificiell Intelligens (AI), som maskininlärning och datorseende.

I min forskargrupp arbetar vi även teoretiskt med datormodeller och simuleringar i syfte att förstå evolutionsprocesserna och hur de samverkar.

Anställning

Professor

Populationsbiologi, mikro- och makroevolution
Lunds universitet
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2020 okt. 23 → present

Principal Investigator

BECC: Biodiversity and Ecosystem services in a Changing Climate
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Forskningsoutput

A century of theories of balancing selection

Ruzicka, F., Zwoinska, M. K., Goedert, D., Kokko, H., Richter, X.-Y. L., Moodie, I., Nilén, S., Olito, C., Svensson, E. I., Czuppon, P. & Connallon, T., 2025 feb. 14, bioRxiv.

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Heritable variation in thermal profiles is associated with reproductive success in the world's largest bird

Svensson, E. I., Schou, M. F., Melgar, J., Waller, J., Engelbrecht, A., Brand, Z., Cloete, S. & Cornwallis, C. K., 2024 apr. 1, I: Evolution letters. 8, 2, s. 200-211 12 s.

Tropical Origin, Global Diversification, and Dispersal in the Pond Damselflies (Coenagrionoidea) Revealed by a New Molecular Phylogeny

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The Paradox of Predictability Provides a Bridge Between Micro- and Macroeolution

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The genomics and evolution of inter-sexual mimicry and female-limited polymorphisms in damselflies

Willink, B., Tunström, K., Nilén, S., Chikhi, R., Lemane, T., Takahashi, M., Takahashi, Y., Svensson, E. I. & Wheat, C. W., 2023 nov. 6, I: Nature Ecology and Evolution.

Frequency-dependent community dynamics driven by sexual interactions

Yamamichi, M., Tsuji, K., Sakai, S. & Svensson, E. I., 2023 okt., I: *Population Ecology*. 65, 4, s. 204-219 16 s.

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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Willink, B., Blow, R., Sparrow, D. J., Sparrow, R. & Svensson, E. I., 2021 juni 1, I: *Ecological Entomology*. 46, 3, s. 601-613 13 s.

Correlational selection in the age of genomics

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Changes in gene expression during female reproductive development in a color polymorphic insect

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

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Macroevolutionary origin and adaptive function of a polymorphic female signal involved in sexual conflict
Willink, B., Duryea, M. C. & Svensson, E. I., 2019, I: *American Naturalist*. 194, 5, s. 707-724 18 s.

The Role of Mutation Bias in Adaptive Evolution

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Climatic factors and species range position predict sexually antagonistic selection across taxa

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On Reciprocal Causation in the Evolutionary Process

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Sexual conflict and ecology: Species composition and male density interact to reduce male mating harassment and increase female survival

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On the standardization of fitness and traits in comparative studies of phenotypic selection

De Lisle, S. P. & Svensson, E. I., 2017 okt., I: *Evolution*. 71, 10, s. 2313-2326

Body size evolution in an old insect order: No evidence for Cope's Rule in spite of fitness benefits of large size

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Checklist of the dragonflies and damselflies from Guyana (Insecta: Odonata), with new records from the country

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Precipitation drives global variation in natural selection

Siepielski, A. M., Morrissey, M. B., Buoro, M., Carlson, S. M., Caruso, C. M., Clegg, S. M., Coulson, T., DiBattista, J., Gotanda, K. M., Francis, C. D., Hereford, J., Kingsolver, J. G., Augustine, K. E., Kruuk, L. E. B., Martin, R. A., Sheldon, B.

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Does relaxed predation drive phenotypic divergence among insular populations?

Runemark, A., Brydegaard, M. & Svensson, E., 2014, I: Journal of evolutionary biology. 27, 8, s. 1676-1690

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Beyond hybridization: diversity of interactions with heterospecifics, direct fitness consequences and the effects on mate preferences.

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Ecology and Sexual Selection: Evolution of Wing Pigmentation in Calopterygid Damselflies in Relation to Latitude, Sexual Dimorphism, and Speciation

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Fewer invited talks by women in evolutionary biology symposia

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Male clasping ability, female polymorphism and sexual conflict: fine-scale elytral morphology as a sexually antagonistic adaptation in female diving beetles

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2023 mars 1 → 2023 mars 31

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