Max Lindmark

Curriculum vitae

Contact

Swedish University of Agricultural Sciences
Department of Aquatic Resources
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Education

Ph.D. Ecology, Swedish University of Agricultural Sciences.

Temperature- and body size scaling: effects on individuals, populations and food webs.

MRes. Applied Marine and Fisheries Ecology (Distinction), University of Aberdeen.

Predicting spatial distribution of fish stocks by updating informative survey-based priors with commercial data in a Bayesian framework

BSc. Biology, University of Gothenburg

2016–2020

2014–2015

2011–2014

Professional experience

Post-doctoral researcher 2020–2022 Swedish University of Agricultural Sciences, Institute of Marine Research

Awards

Lindsay Laird Prize
In recognition of all-round performance in the Applied Marine and Fisheries Ecology program throughout the year. Awarded jointly with another student

Fishmongersâ Award, Scholarship recipient
Full fees payment (£3400) awarded to 1 MRes/MSc student on academic merit by the Fishmongersâ Company

Stipend from Gothenburg Biological Society
For well accomplished bachelorâ s thesis: By-catch in pelagic fisheries: A study on by-catch in Swedish herring fisheries on the west coast in the winter of 2013/2014

Stiftelsen Hvitfeldtska gymnasiets samfond
Stipend awarded for academic achievement (top 10% of science students in class)

Publications

[Preprints]

Lindmark, M., Anderson, S. C., Gogina, M., and Casini, M. 2022. Evaluating drivers of spatiotemporal individual condition of a bottom-associated marine fish. *BioRxiv*. https://doi.org/10.1101/2022.04.19.488709

Lindmark, M., Karlsson, M., and GÃ¥rdmark, A. 2022. Higher mortality rates leave heated ecosystem with similar size-structure despite larger, younger, and faster growing fish. *BioRxiv*. https://doi.org/10.1101/2022.04.13.488128

[Publications]

- Lindmark, M., Audzijonyte, A., Blanchard, J. L. and GÃ¥rdmark, A. 2022. Temperature
 impacts on fish physiology and resource abundance lead to faster growth but smaller fish sizes
 and yields under warming. Global Change Biology, early view https://doi.org/10.1111/gcb.16341
- Lindmark, M., Ohlberger, J., and GÃ¥rdmark, A. 2022. Optimum growth temperature declines with body size within fish species. Global Change Biology, 28(7), pp. 2259â "2271, https://doi.org/10.1111/gcb.16067
- Thunell, V., Lindmark, M., Huss, M., and GÃ¥rdmark, A. 2021. Effects of warming on intraguild predator communities with ontogenetic diet-shifts. The American Naturalist. 196(6). 706â "718, https://doi.org/10.1086/716927
- 3. Huss, M., Lindmark, M., Jacobson, P., van Dorst, R., GÃ¥rdmark, A. 2019. Experimental evidence of gradual size-dependent shifts in body size and growth of fish in response to warming. Global Change Biology, 25(7), pp. 2285â "2295, https://doi.org/10.1111/gcb.14637
- Lindmark, M., Ohlberger, J., Huss, M. and GÃ¥rdmark, A. 2019. Size-based ecological interactions determine effects of warming on food web stability. *Ecology Letters*, 22(5), pp. 778â "786, https://doi.org/10.1111/ele.13235
- 1. **Lindmark, M.**, Huss, M., Ohlberger, J. and GÃ¥rdmark, A. 2018. Temperatureâ dependent body size effects determine population responses to climate warming. *Ecology letters*, 21(2), pp. 181â "189, https://doi.org/10.1111/ele.12880

Reports

- Havs- och vattenmyndigheten 2019. Fisk- och skaldjursbestĥnd i hav och sĶtvatten 2018. ResursĶversikt. Havs- och vattenmyndighetens rapport 2019:4. GĶteborg, 305 s.
- Havs- och vattenmyndigheten 2018. Fisk- och skaldjursbestånd i hav och sötvatten 2017. Resursöversikt. Göteborg, 273 s.
- Havs- och vattenmyndigheten 2016. Fisk- och skaldjursbestĥnd i hav och sĶtvatten 2016. ResursĶversikt

Grants

Sven och Dagmar Saléns stiftelse (Travel grant) (5 616 SEK)	2019
Knut and Alice Wallenbergs foundation (Travel grant) (24 000 SEK)	2018
SLU funds for internationalization of graduate education (Travel grant) (28 000 SEK)	2016

2022.09

Invited presentations

Gulf of Maine Research Institute May Seminar (GMRI) (video)	May 2021
Understanding the effects of climate warming on food webs via individual-level physiology	

Conferences

ICES/PICES Early Career Scientist Conference (Talk) Evaluating drivers of spatiotemporal changes in the condition of Eastern Baltic cod	2022
Swedish Oikos Meeting, Online (Talk) Evaluating drivers of spatiotemporal changes in the condition of Eastern Baltic cod	2021
Baltic Sea Science Congress, Stockholm (Talk) Warming alters the effect of fishing on the size spectra of an exploited temperate food web	2019
Society for Experimental Biology, Seville (Talk) In Satellite: Is global warming causing animals to shrink? evidence, mechanisms and models Physiological constraints to growing large in warm waters?	2019
Swedish Oikos Meeting, Uppsala (Talk) Physiological constraints to growing large in warm waters?	2019
Models in Population Dynamics, Ecology, and Evolution, Leicester (Talk) Species interactions determine effects of warming on stability in a stage-structured food chain	2018
Nordic Oikos Meeting, Trondheim (Talk) Species interactions determine effects of warming on stability in a stage-structured food chain	2018
Swedish Oikos Meeting, Lund (Talk) Climate change and size-structured populations. Temperature dependent allometry and ontogenetic asymmetry shape warming responses of size structured populations	2017

Research visits

University of Washington, School of Aquatic and Fishery Sciences	Mar 2017-Jun 2017
Research visit and collaboration with Dr. Jan Ohlberger	
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University of Tasmania, Institute for Marine and Antarctic Studies	Nov 2018-Dec 2018
Research visit and multispecies food web modelling workshop with	
Dr. Julia Blanchard	

Working Groups

WGGRAFY

Joint ICES/PICES Working Group on Impacts of Warming on Growth Rates and Fisheries Yields (WGGRAFY)

Member 2020-present

2022.09

Reviewing

ICES Journal of Marine Science (6) · Oikos (2) · Nature Communications (1) · Ecology (1) · Scientific Reports (1) · Functional Ecology (1) · PLOS ONE (1) · Proceedings of the Royal Society B (1)

Teaching

All lab material written by me is available on this github repository:

https://github.com/maxlindmark/comp-labs-ecology

Sustainability perspectives on contemporary fisheries. Where have all the fishes gone? Teaching assistant. Lecture on climate impacts on global fisheries.

2019

Ecology for fish management and conservation

2016-2019

Teaching assistant. Wrote R lab Population dynamics and harvesting, lecture on fish morphology, physiology, and energetics, supervising and grading student projects, exam questions and marking.

Principles in Fisheries Science

2018-2019

Teaching assistant. Wrote R lab Impacts of fishing in an ecological context.

LunchR 2018

A department wide R course in data wrangling and plotting (4x1 hour). Solely initiated and organized together with student colleague Philip Jacobson. Material: https://github.com/maxlindmark/LunchR

Supervision

MSc students

Malin Karlsson, Swedish University of Agricultural Sciences

2019-2020

Main supervisor for project: The effect of temperature on life history traits of perch (Perca fluviatilis) in a large scale natural climate change experiment and its implications for population age- and size structure?

Mattias Grunander, Swedish University of Agricultural Sciences

2016

Co-supervisor for project: Effects of global warming on Eurasian perch (Perca fluviatilis) in the Baltic Sea. - Does the growth response to increased temperatures differ along a latitudinal gradient?

Workshops

Making graphics in R for popular report on status of fishes in Swedish

2019

Modelling population dynamics with MatCont

2018

Organized a session on numerical continuation analysis of a predator-prey model

2022.09

University Services

PhD Representative Department of Aquatic Resources, SLU	2019
Class representative Applied Marine and Fisheries Ecology I represented studentsâ opinions and views on the program in regular meetings with course- and program coordinators at the University of Aberdeen	2014-2015
Student Ambassador Applied Marine and Fisheries Ecology I communicated with prospective students, mostly through social media	2014-2015

Outreach

Co-managing research groupâ s Instagram account @fishinfoodwebs	2016-2020
SLU 40th Anniversary, Uppsala (Poster) Climate change and size-structured populations. Temperature dependent allometry and ontogenetic asymmetry shape warming responses of size structured populations	2017
Science evenings (high school), \tilde{A} sthammar municipality (Talk) $\it Effects~of~warming~on~fishes$	2017
Gothenburg Biological Society Popular talk at the Gothenburg Museum of Natural History on bycatch in small scale pel fisheries on the west coast of Sweden	2014 agic
Swedish Society for Nature Conservation I have given public talks (presenting on the topic of toxins in the Baltic herring in 2014) at local festivals (go: TO SEA and VÃ α sterhavsveckan)	2011-2014
Gothenburg Museum of Natural History Arranged seminar ($4*2$ per year) with invited speakers, covering all things marine	2011-2014

Other

Initiator and admin of department wide R-users mailing list. (w. P. Jacobson) 2018-present

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