Accepted Manuscript

Harnessing uncertainty to approximate mechanistic models of interspecific interactions

Adam Thomas Clark, Claudia Neuhauser

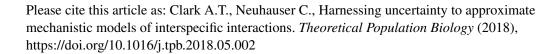
PII: S0040-5809(17)30187-9

DOI: https://doi.org/10.1016/j.tpb.2018.05.002

Reference: YTPBI 2647

To appear in: Theoretical Population Biology

Received date: 11 November 2017



This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



ACCEPTED MANUSCRIPT

Harnessing Uncertainty to Approximate Mechanistic Models of Interspecific Interactions

Revision 1: TPB_2017_136 Due: 8 June 2018

Running Head: Harnessing Uncertainty

Abstract Word Count: 163 Main Text Word Count: 5897 Number of References: 50 Number of Figures: 5

Key words: Lotka-Volterra competitive equations; process noise; model uncertainty; interspecific competition; model abstraction; interspecific tradeoff

Adam Thomas Clark 1,2,3,4* and Claudia Neuhauser 1,5,6

*Corresponding author adam.tclark@gmail.com; ¹University of Minnesota, Dept. of Ecology, Evolution, and Behavior, 1987 Upper Buford Circle, Saint Paul, MN 55108, USA; ²German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig, Synthesis Centre for Biodiversity Sciences (sDiv), Deutscher Platz 5e, 04103 Leipzig, Germany (current address); ³Department of Physiological Diversity, Helmholtz Center for Environmental Research (UFZ), Permoserstrasse 15, Leipzig 04318, Germany; ⁴Leipzig University, Ritterstrasse 26, 04109 Leipzig, Germany; ⁵University of Minnesota, University of Minnesota Informatics Institute, Minneapolis, MN, 55455, USA; ⁶Division of Research, University of Houston, Houston TX 77204 (current address).

Download English Version:

https://daneshyari.com/en/article/10223734

Download Persian Version:

https://daneshyari.com/article/10223734

<u>Daneshyari.com</u>