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Kendall Bartsch
CEO | Co-Founder
Third Iron, LLC
kendall@thirdiron.com



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Management and Conservation Article

From Wiens to Robel: A Review of Grassland-Bird Habitat Selection

RYAN I. FISHER. Department of Biology, University of Reging, Reging, SK \$45 042, Canada

ASSTRACT Eilen souldine or secure granded had population require interfaction of matthe habors as for may. Absompt the action of the contract measures of variance. Standardization of terms and reporting of meaningful results will facilitate replication of wildlife research and enhands that to recognize general patterns that emerge from observational studies of habitat use.

KEY WORDS Daubenmire, grassland passerines, habitat models, habitat use, litter depth, vegetation density, vegetation heigh

(Brennan and Kuvlesky 2005:1). The continent-wide nature of these declines suggests that the causes are not local isolated phenomena and likely involve the loss and degradation of grassland habitat (Vickery et al. 1999b, readily-measurable habitat features which may or may not Vickery and Herkert 2001, Brennan and Kuvlesky 2005).

Hence, efforts to stabilize or increase grassland bird studies conducted since Wiens' (1969) monograph have Not surprisingly, the number of studies examining grass-

Two important questions researchers must answer before bird researchers still conduct exploratory analyses because conducting any type of habitat study are these: 1) what features of the habitat should be measured, and 2) what is particularly apparent in the grassland-bird Breeding Biology the best method for measuring those features. Wiens (1969)
contended that a description of bird habitat should provide

**Research and Monitoring Database (Bird) protocol where contended that a description of bird habitat should provide

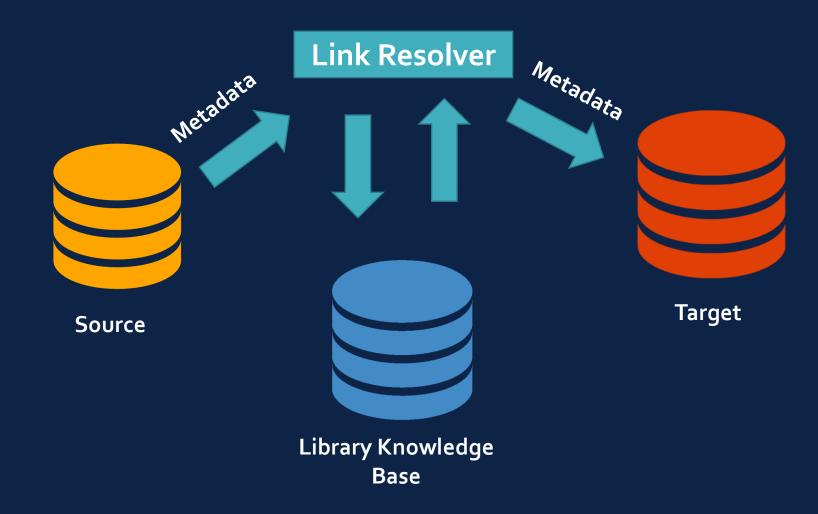
**All vegetation parameters are measured at each ness sufficient detail to differentiate among habitats used by multiple species, yet be suitably flexible and precise to reduce and measurement of all potentially important vegetation the need to artificially classify and categories habitat. Furthermore, researchers should consider those habitat bird habitat relationships has emerged, or that apparen (Wiens 1969). Stemming from these requirements, Wiens (1969) developed a protocol for quantifying grassland bird habitat based on structural vegetation characteristics such as researchers for quantifying grassland bird habitat, and 2 density, height, and dispersion. The system is both efficient identify patterns of grassland-bird vegetation association

Although Wiens' (1969:86) system included a set of carefully chosen variables, he suggested that "...it does not seem proper to restrict consideration, a priori, to a few populations require identification of remaining habitat as a identified relevant vegetation features influencing habitat use that should aid researchers in defining a priori management and restoration (Brennan and Kurlesly 2005). and-bird habitat selection has increased substantially in selection models that could be used to make informed decisions regarding habitat management. Even so, grassland

We reviewed studies of habitat selection by grassland bird and easy to use in the field, making it one of the preferred methods for quantifying grassland bird habitat. Many of the grassland-bird habitat use by providing a reduced set of structural characteristics included by Wiens (1969) are still relevant vegetation characteristics for researchers to consid er, 2) challenge researchers to critically think about what variables to consider, and 3) highlight the need to include

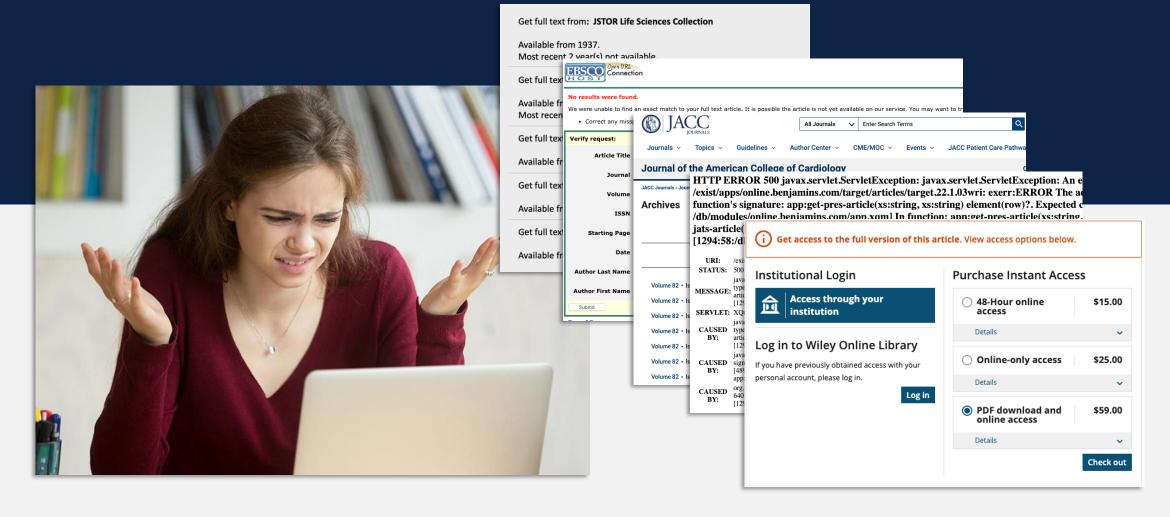
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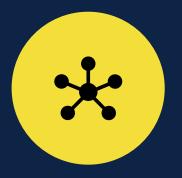
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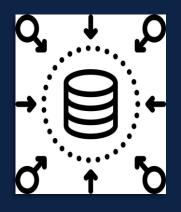
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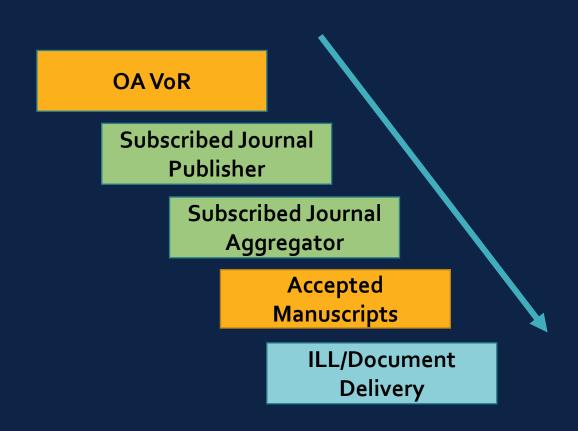
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ARTICLE

Controlled Release of PDGF-bb by Coaxial Electrospun Dextran/Poly(L-lactide-coε-caprolactone) Fibers with an Ultrafine Core/Shell Structure

Li, Hua; Zhao, Chenguang; Wang, Zhexiang; Zhang, Hong; Yuan, Xiaoyan; Kong, Dolin Journal of biomaterials science, Polymer ed., 2010, Vol.21 (6-7), p.803-215

Membranes composed of dextran (DEX) and poly(L-lactide-co-ε-caprolactone) (PLCL) as ultrafine core for loading platelet-derived growth factor-bb (PBGr-bb... 66



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Controlled Release of PDGF-bb by Coaxial Electrospun Dextran/Poly(L-lactide-co-ε-caprolactone) Fibers with an Ultrafine Core/Shell Structure

Hua Li a,b, Chenguang Zhao a,b, Zhexiang Wang c, Hong Zhang a,b, Xiaoyan Yuan a,b,* and Deling Kong

^a School of Materials Science and Engineering, Tianjin University, Tianjin 300072, P. R. China b Tianjin Key Laboratory of Composite and Functional Materials, Tianjin University, Tianjin 300072, P R China

c Key Laboratory of Bioactive Materials, Ministry of Education, College of Life Science, Nankai University, Tianjin 300071, P. R. China

Received 3 October 2008; accepted 15 April 2009

Membranes composed of dextran (DEX) and poly(L-lactide-co-ε-caprolactone) (PLCL) as ultrafine core/shell fibers for loading platelet-derived growth factor-bb (PDGF-bb) were produced by coaxial electrospinning. The morphology and core/shell structure of the DEX/PLCL fibers containing PDGF-bb were investigated by scanning electron microscopy and transmission electron microscopy. The loading amount of PDGF-bb in the DEX/PLCL membrane prepared at 0.1 ml/h of the inner solution flow rate (DEX/PLCL-1P) was much lower than that in DEX/PLCL-2P and DEX/PLCL-3P obtained at 0.2 ml/h and 0.3 ml/h inner solution flow rate, respectively. All three membranes showed obvious burst release of PDGE-bb in the first

ournal of Biomaterials Science Volume 21, 2010 - Issue 6-7

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Controlled Release of PDGF-bb by Coaxial Electrospun Dextran/Poly(L-lactide-co-εcaprolactone) Fibers with an Ultrafine Core/Shell Structure

Hua Li, Chenguang Zhao, Zhexiang Wang, Hong Zhang, Xiaoyan Yuan & Deling Kong Pages 803-819 | Published online: 02 Apr 2012

Abstract



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School social bonds, school climate, and school misbehavior: A multilevel ar Stewart, Eric A.

Justice quarterly, 2003, Vol.20 (3), p.575-604



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Databases

 Has the terrorist attack on Charlie Hebdo fuelled resistance towards Muslim immigrants in Europe? Results from a natural experiment in six European countries.





Academic Journal

By: Savelkoul, Michael; te Grotenhuis, Manfred; Scheepers, Peer. Acta Sociologica (Sage Publications, Ltd.). Nov2022, Vol. 65 Issue 4, p357-373. 17p. DOI: 10.1177/00016993221088447., Database: Business Source Complete

Subjects: Europe; Terrorism; Immigrants; Intergroup communication; Political crimes & offenses

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Has the terrorist attack on Charlie Hebdo fuelled resistance towards Muslim immigrants in Europe? Results from a natural experiment in six European countries



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(\$)SAGE

Michael Savelkoul

Radboud University Nijmegen, the Netherlands

Manfred te Grotenhuis[†]

Radboud University Niimegen, the Netherlands

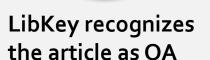
Peer Scheepers

Radboud University Nijmegen, the Netherlands

Abstract

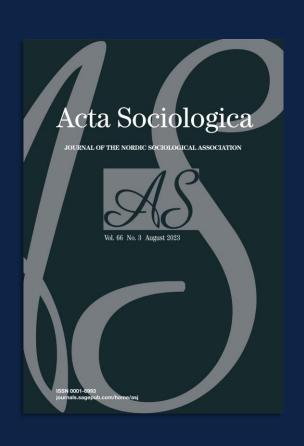
In recent years, Europe witnessed several terrorist attacks by Islamist terrorists. To date, crucial questions are whether and how such events influence the European public's resistance towards Muslims, and if such influence depends on the level of intergroup competition, both at the contextual and individual level. Using the European Social Survey (ESS7), we were able to compare respondents interviewed shortly before and after the terrorist attack on Charlie Hebdo in January 2015. While we found no support for a moderating role of intergroup competition, our study shows that the levels of resistance towards Muslim immigrants were higher shortly after the attacks in Ireland and Czech Republic, however, lower in France. For Austria, Finland and Germany we found no influence. Our findings indicate that one cannot be too careful with generalizing conclusions from single countries.

Resistance towards Muslim immigrants, terrorist attacks, Charlie Hebdo, Europe



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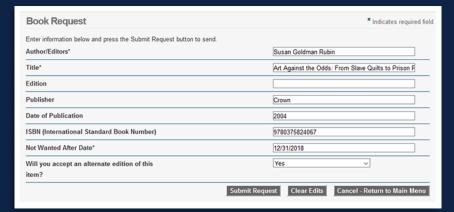
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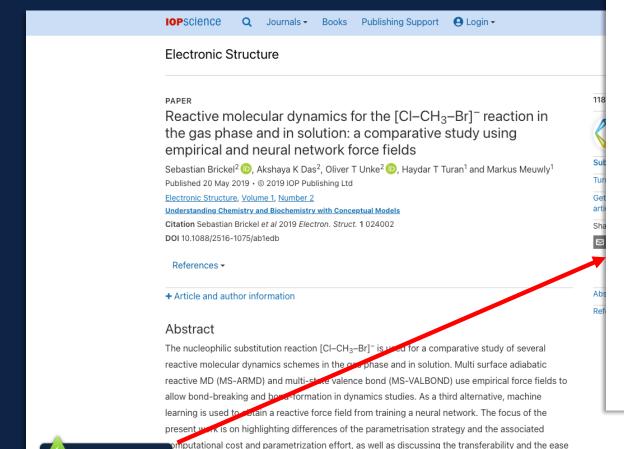
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th which the methods can be applied to a given chemical reaction. All methods are able to fit the

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methods for the S_N2 reaction compare to within 3.5 kcal mol⁻¹ for the forward and to within 0.6 kcal

Electronic Structure



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REVISED
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PAPER

Reactive molecular dynamics for the [Cl-CH₃-Br]⁻ reaction in the gas phase and in solution: a comparative study using empirical and neural network force fields

Sebastian Brickel O, Akshaya K Das, Oliver T Unke O, Haydar T Turan and Markus Meuwly

Department of Chemistry, University of Basel, Klingelbergstrasse 80, 4056 Basel, Switzerland

These authors contributed equally.

E-mail: m.meuwly@unibas.ch

Keywords: reactive molecular dynamics, S_N2, umbrella sampling, neural network, condensed phase Supplementary material for this article is available online

Abstrac

The nucleophilic substitution reaction [Cl-CH -Br] is used for a comparative study of several reactive molecular dynamics schemes in the gas phase and in solution. Multi surface adiabatic reactive MD (MS-ARMD) and multi-state valence bond (MS-VALBOND) use empirical force fields to allow bond-breaking and bond-formation in dynamics studies. As a third alternative, machine learning is used to obtain a reactive force field from training a neural network. The focus of the present work is on highlighting differences of the parametrisation strategy and the associated computational cost and parametrization effort, as well as discussing the transferability and the ease with which the methods can be applied to a given chemical reaction. All methods are able to fit the reference data with $R^2 = 0.99$ or better. Free energy barrier heights in the gas phase from all three methods for the S_N2 reaction compare to within 3.5 kcal mol⁻¹ for the forward and to within 0.6 kcal mol-1 for the reverse reaction. For the reaction in solution only the MS-ARMD and MS-VALBOND approaches can be used as training a NN for this would be computationally extremely prohibitive. Overall, MS-VALBOND yields the best results compared to experiment with differences in the barrier heights of ~1 kcal mol-1 for the reaction in solution. Potential improvements for all three methods are discussed and aim to guide computational investigation of chemical reactions applying these three methods.

1. Introduction

Understanding atomistic and molecular aspects of chemical reactions is one of the cornerstones in chemistry and biology. Characterizing reactions in time and space is challenging due to the different length- and time-scales on which the nuclear dynamics takes place [1]. For example, typical reaction times for the Claisen rearrangement [2] in solution are on the order of seconds [3] or milliseconds (in the protein) [4]. However, the chemical step (i.e. C-Cb and formation and C-O bond breaking) [5] occurs on the fentusecond time scale. In other words, during 10° to 10th vibrational periods energy is redistributed in the system until sufficient energy has accumulated along the relevant 'progression coordinate' for the reaction to occur. Because the 'chemical step' is so rapid and the system concentration at the transition state is negligible, direct experimental characterization of the transition state and the dynamics between reactant and product is extremely challenging even with current state-of-the art methods, including NMR, [6] [18, [7] or x-ray [8, 9] sectroscopic and the dynamics of the product is extremely challenging even with current state-of-the art methods, including NMR, [6] [18, [7] or x-ray [8, 9] sectroscopic.

Atomistic simulations have shown to provide molecular-level insight into the energetics and dynamics of chemical reactions for systems ranging from small (triatomic) molecules to proteins in the condensed phase [1, 10–13]. An essential requirement for a meaningful contribution of computer-based work to characterize chemical reactions is a correct description of the intermolecular interactions along the entire reaction path including the degrees of freedom orthogonal to it. This involves regions around the reactants, products and the transition state(s). Intermolecular interactions in molecular systems are often represented as a Born–Oppenheimer © 2019 IOP Publishing Ltd

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Thank you! Questions?

Kendall Bartsch, MLS CEO | Co-founder Third Iron, LLC kendall@thirdiron.com