FisMatEcol Boletin

Dic 2022

Dr. Oliver López Corona Dra. Elvia Ramírez Carrillo



Eventos



COP 15



Oportunidades

Undergraduate Complexity Research



Detail from Plant forms, an Impression Figure by Margaret Watts Hughes, pigment on glass, date unknown (recolored). Courtesy of Cyfarthfa Castle Museum and Art Gallery via PublicDomainReview.org

in-need of great post-docs in soil biogeochemistry

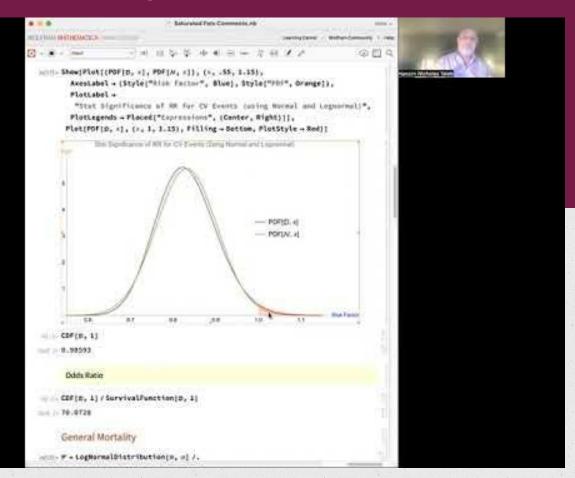
(https://jobs.colostate.edu/postings/117276), analytical chemistry

(https://jobs.colostate.edu/postings/117278), and microbiology (soon) for world-changing CO2 removal (soil biosequestration) research in beautiful Fort Collins CO. Apply now!

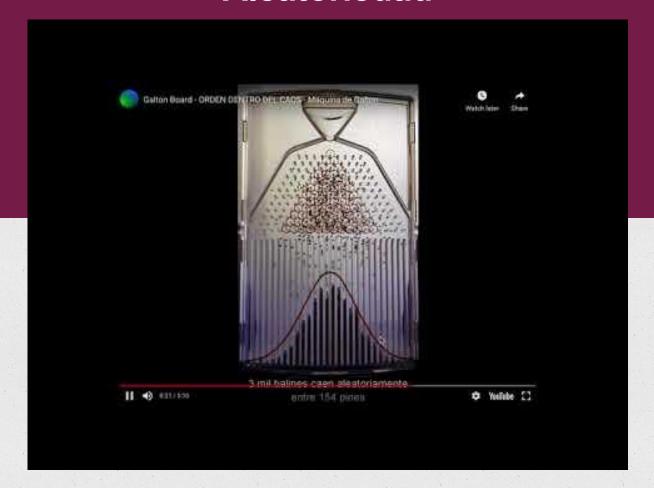
JOB ALERT Interested in conducting exciting research in #landbased solutions for UK #climatechange mitigation? Then, check this 2-yr #postdoc at @ScienceShef http://bit.ly/3Or71Ym. Deadline Jan 9th. Any questions, contact me. Please, RT. Thanks! #UKRIFLF #SciJobs #NetZero

Conceptos

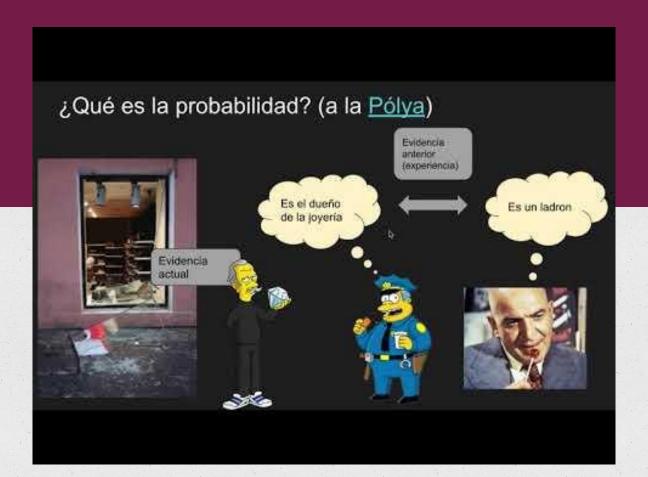
Pensamiento propagandista Vs Pensamiento científico



Aleatoriedad



Probabilidad



Entropia fisica 01

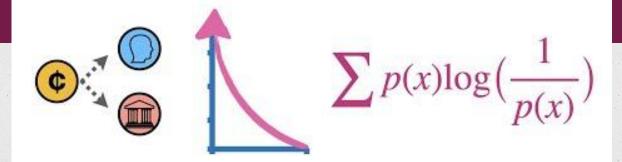


Entropia fisica 02



Entropia (estadística)

Entropy (for data science)



...Clearly Explained!!!

Cursos



Harvard CS50

Full University Course



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Cultura





Temporal and spatial dynamics in soil acoustics and their relation to soil animal diversity

Marcus Maeder , Xianda Guo, Felix Neff, Doris Schneider Mathis, Martin M. Gossner

Published: March 8, 2022 • https://doi.org/10.1371/journal.pone.0263618

| Article | Authors | Metrics | Comments | Media Coverage | Peer Review |
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Abstract

Introduction

Materials and methods

Results

Discussion

Supporting information

Acknowledgments

References

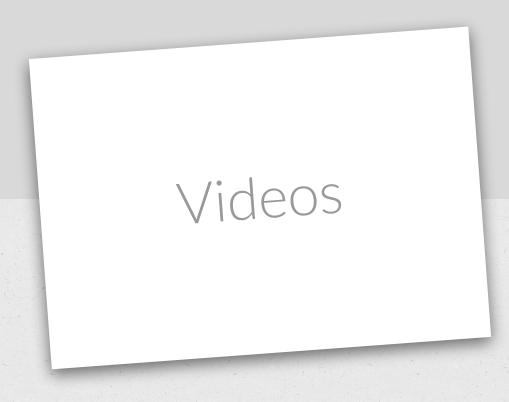
Reader Comments

Figures

Abstract

developed considerably in recent years. Current eco-acoustic research focuses on automatic audio recorder arrays and acoustic indices, which may be used to study the spatial and temporal dynamics of local animal communities in high resolution. While such soundscapes have often been studied above ground, their applicability in soils has rarely been tested. For the first time, we applied acoustic and statistical methods to explore the spatial, diurnal, and seasonal dynamics of the soundscape in soils. We studied the dynamics of acoustic complexity in forest soils in the alpine Pfynwald forest in the Swiss canton of Valais and related them to meteorological and microclimatic data. To increase microclimatic variability, we used a longterm irrigation experiment. We also took soil samples close to the sensors on 6 days in different seasons. Daily and seasonal patterns of acoustic complexity were predicted to be associated with abiotic parameters—that is, meteorological and microclimatic conditions—and mediated by the dynamics of the diversity and activity of the soil fauna. Seasonal patterns in acoustic complexity showed the highest acoustic complexity values in spring and summer, decreasing in fall and winter. Diurnal acoustic complexity values were highest in the afternoon and lowest during the night. The measurement of acoustic diversity at the sampling site was significantly associated with soil communities, with relationships between taxa richness or community composition and acoustic complexity being strongest shortly before taking the soil samples. Our results suggest that the temporal and spatial dynamics of the diversity and community composition of soil organisms can be predicted by the acoustic complexity of soil soundscapes. This opens up the possibility of using soil soundscape analysis as a noninvasive and easy-touse method for soil biodiversity monitoring programs.

The observation and assessment of animal biodiversity using acoustic technology has







«Lee este libro, fortalece tu determinación y ayúdanos a recuperar la razón.»

—JORDAN B. PETERSON

GAD SAAD

LA MENTE PARASITARIA



CÓMO LAS IDEAS INFECCIOSAS ESTÁN MATANDO EL SENTIDO COMÚN

Traducción de Verónica Puertollan

DEUSTO

Notas

