

# Abstract

Environmental factors determine the suitability of natural habitats for crop pests and often influence their proliferation and that of the crop diseases they carry. Crop pests and diseases damage food crops, significantly reducing yields for these commodities and threatening food security in developing, predominantly agricultural economies. Given its impact on environmental factors, climate change is an important determinant of crop pest and disease distribution. This study uses bioclimatic tools, a climate suitability analysis and mapping model, to explore the potential impact of climate change on seven environmental factors linked to crop pest and associated diseases proliferation. Based on the existing literature, predictor modeling was performed on 27 key pests and diseases that impact the major food crops for Zambian consumption. Future changes in habitat suitability for these crop pests and diseases were mapped based on their optimal temperature and relative humidity conditions for proliferation. Results project that there will be an overall increased geographical spread of suitable habitats for crop pests (and as follows, crop diseases) that thrive in warmer environments. By the 2050s, crop pests and diseases will increasingly spread across Zambia, with a higher likelihood of occurrence projected under RCPs 2.6, 4.5, and 8.5. Crop pests and diseases that thrive in cooler environments will experience decreasing habitat suitability in the 2050s, but will transition to a slower decrease in the 2080s under RCPs 2.6 and 4.5. Overall crop pest and disease habitat suitability will continue to rise slowly in the 2050s; RCP 8.5 shows an increased habitat suitability for crop pests and diseases that thrive in warm environments, with a decreased likelihood of occurrence for crop pests and diseases that thrive in cooler environments. The results highlight the need for future-facing, long-term climate adaptation and mitigation measures that create less suitable microclimates for crop pests and diseases.

Background  
statement

Problem  
statement/  
rationale

Aim/objective/  
purpose

Methods

Results

Conclusions/  
implications/  
contribution

# Guide To Writing Abstracts

**Edward Richard Shaw**



## Guide To Writing Abstracts:

**A Student Guide to Writing at UC Irvine**, 2004     Scientific English Alessandra Damiani, Aaron Harwood, 2020-12-17  
Scientific English Conceptual Understanding and Abstract Writing un compendio di Inglese Scientifico scritto in lingua inglese uno strumento per meglio scrivere e comprendere il linguaggio accademico in lingua Il testo identifica nei connettivi enunciativi i perni del discorso scientifico offre una serie di spunti per aumentare la propria velocità di lettura e mostra come scrivere un abstract che risulti corretto da un punto di vista accademico e accattivante da un punto di vista bibliometrico Il compendio analizza la tipologia degli articoli scientifici e la loro articolazione in sezioni facendo esplicito riferimento al formato IMRAD nel contempo provvede una griglia per la coniugazione dei verbi proprio in funzione di tali sezioni fornisce uno schema per l'uso e l'identificazione dei connettivi enunciativi esamina i tipi di paragrafo utilizzati in ambito scientifico offre una tabella per il corretto posizionamento degli avverbi e una lista di frasi fatte utili nella composizione dei resoconti scientifici Scientific English Conceptual Understanding and Abstract Writing is a compendium of Scientific English written in English and a tool to better understand academic language both spoken and written The text identifies sentence connectors as the pillars underpinning scientific discourse offers a number of ideas to increase one's reading speed and shows how to write effective abstracts that are both appropriate from an academic perspective and conducive to a high bibliometric score This compendium analyses the typologies of scientific articles and their articulation into sections making specific reference to the IMRAD format whilst providing a framework for the conjugation of verbs according to these sections and offering a scheme for the use as well as identification of sentence connectors Furthermore it also examines the various paragraph types used within science offering a table to assist in the correct positioning of adverbs and providing a list of common phrases and idioms useful in the composition of scientific reports     *A Short Guide to Writing about Science* David Porush, 1995  
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