

Thursday 02-June-2022 Preparing an application for the Marie Curie post-doctoral fellowship EU-Africa Cooperation Series

How to turn your research idea into a 10-pages proposal

JULIANA STROPP, IF-ERC FELLOW MNCN-CSIC https://taxon-time.com/

What to expect from evaluators?

RICHARD LADLE, EUROPEAN COMMISSION EVALUATOR ERA-CHAIR TROPIBIO https://cibio-tropibio.pt/en/











1. What is the MSCA-PF fellowship?

- Post-doctoral fellowship funded by the European Commission
- Strong component on training
- Call opened 12 May 2022
- Call closes 14 September 2022

MSCA Postdoctoral Fellowships 2022

Reference HORIZON-MSCA-2022-PF-01 Deadline 14 Sep 2022

MSCA Postdoctoral Fellowships enhance the creative and innovative potential of researchers holding a PhD and who wish to acquire new skills through advanced training, international, interdisciplinary and intersectoral mobility. MSCA Postdoctoral Fellowships will be open to excellent researchers of any nationality.

The scheme also encourages researchers to work on research and innovation projects in the non-academic sector and is open to researchers wishing to reintegrate in Europe, to those who are displaced by conflict, as well as to researchers with high potential who are seeking to restart their careers in research.

Follow this link to learn more details about $\underline{\mathsf{MSCA}}$ Postdoctoral Fellowships \square .

Fellowships will be provided to excellent researchers, undertaking international mobility either to or between EU Member States or Horizon Europe Associated Countries, as well as to non-associated Third

https://marie-sklodowska-curieactions.ec.europa.eu/calls/msca-postdoctoralfellowships-2022

https://euraxess.ec.europa.eu/

2. Getting started

- Contact potential supervisor and host institution
- Discuss topic and ideas



Search host institution at: https://euraxess.ec.europa.eu/jobs/hosting/search of the European Union 🛛 How do you know? 🗸 European Commission European Commission > EURAXESS > Jobs & Funding > Find Hosting **EURAXESS JOBS &** CAREER INFORMATION PARTNERING FUNDING DEVELOPMENT & ASSISTANCE Search for hosting Enter keywords COUNTRY EUROPEAN RESEARCH PROGRAMME

SEARCH NEED HELP?

2. Getting started

- How to submit a proposal: check guidelines
- Download template for 2022
- Check approved projects (CORDIS database)

Filter: Programme -> H2020 -> MSCA-IF

Guidelines https://euraxess.ec.europa.eu/sites/default/files/how_to_su bmit_a_msca_if_proposal.pdf

CORDIS database https://cordis.europa.eu/projects/en

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Include archived content (1)

3. Timeline

- Ideas and contact with supervisor (mid-June)
- First draft (COMPLETE!) (end-August)
- Corrections and revisions (August September)



Deadline (14 Sep. 17:00 h – Brussels time)

Excellence

- Impact
- Quality and Efficiency of the Implementation

Template: https://ec.europa.eu/info/fundingtenders/opportunities/docs/2021-2027/horizon/temp-form/af/af_he-mscapf_en.pdf

Scores

0 – The **proposal fails to address the criterion** or cannot be assessed due to missing or incomplete information.

1 – Poor. The criterion is inadequately addressed, or there are serious inherent weaknesses.

- **2 Fair.** The proposal broadly addresses the criterion, but there are significant weaknesses.
- **3 Good.** The proposal addresses the criterion well, but a number of shortcomings are present.
- **4 Very good.** The proposal addresses the criterion very well, but a small number of shortcomings are present.
- **5 Excellent.** The proposal successfully addresses all relevant aspects of the criterion. Any shortcomings are minor.

Excellence

- Impact
- Implementation

Scores

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3 – Good. The proposal addresses the criterion well, but a number of shortcomings are present.

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5 – Excellent. The proposal successfully addresses all relevant aspects of the criterion. Any shortcomings are minor.

Excellence

1. Research & Innovation

- Why this project?
- Why you?
- Why now?

- Broad scientific impact
- Test of hypothesis that is relevant for a whole discipline
- Paradigm shift
- Interdisciplinary research
- Scale-up
- Use of new technologies



- Case study
- Replicate study
- New method for an old question

Excellence: research & innovation

- Easy-to read text
- Present the rational behind your project
- Present a visually engaging figure
- Show scientific credibility
- Show that you can do the work

Page 1

START PAGE COUNT - MAX 10 PAGES



TAXON-TIME

1.1 QUALITY AND CREDIBILITY OF THE RESEARCH/INNOVATION PROJECT; LEVEL OF NOVELTY, APPROPRIATE CONSIDERATION OF INTER/MULTIDISCIPLINARY AND GENDER ASPECTS

Without taxonomy, ecological research is unstantable. Fur, superconding formunderstanding biodiversity to identifying conservation targets, depend on how organism and classified. For ecologic time is insortance of tax nearly is therefore disputed, vit ment table disciplination of ecology, takkating memory of the taxonomy is therefore focus of both disciplination and echief the second statement of the table of the second statement o

This project thereby addresses a long-standing research problem in macrocology, the observation that for decades estimates of global species richness still do not converge^{14,77}. This problem arises in part because estimates are heavily dependent on the counts of individual species – a parameter that by itself is uncertain and bound to channifi following the discoursy, description, and classifications of species in the problem arises of twonomic reclassifications. Plants with conscious flowers, for instruct, are more sitely to attract the estention of twonomic machines in the number of sublity¹⁴. As a consequence, the workhold species have a lower chance of concies descriptions.

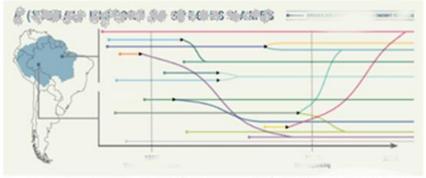


Figure 1, Schematic timeline covering 250 years of discoveries and reclassifications of species recorded at two sites in Amazonia; line colours represent individual species; dashed lines mark the time point of biodiment, sampling; the number of species intersecting these lines changes over time.

Of the two thousand vascular plant species newly use	crited each years in the last decade	around the world, only half
come financial collected spectrees, the other half com- lowing improved molecular and comphometric techniques -	I pleady existing	herbarium vouchers ²⁴ fol-
mation through the augualization of Nertunia speciment and	in the second state of the	effort vary prosily apross
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Excellence: Research & Innovation

In a few senteces:

- What is known?
- What is unknwon?
- How are you going to close a specific knowledge gap?
- Trigger curiosity, present contrasting ideas, new view on a old topic, etc.

<section-header><section-header><section-header><section-header><section-header><section-header><text><text>

Example:

Without taxonomy, ecological research is unthinkable. Key aspects of ecology, from understanding biodiversity to identifying conservation targets, depend on how organisms are classified. For ecologists, the importance of taxonomy is therefore undisputed. Yet <u>most sub-disciplines of ecology, including macroecology, treat the taxonomic classification of organisms as *static*, while in reality it is *dynamic* and subject to periodic change^[1] (Fig. 1). The inconsistency may stem from the divergent focus of both disciplines: whereas taxonomy treats species as hypotheses that can be rejected by scientific evidence, macroecology requires species classifications as a solid reference to capture biodiversity patterns across spatial scales^[2]. Bridging the divergence by <u>a framework linking the dynamic nature of taxonomic classification with macroecology has not been attempted in a systematic manner but would allow uncovering the impact of taxonomic change on biodiversity patterns^[4]. Such framework, however, is still missing because the necessary methods of data-intensive research became available only recently^[5]. <u>The scientific challenge of incorporating taxonomic change into macroecology is the focus of TAXON-TIME</u>.</u></u>

Excellence: Research & Innovation

- Background information for a broad audience (avoid jargon)
- Figure; photo; graph...

1 EXCELLE	INCE	TAXON-TIME
APPROPRIATE CO	ONSIDERATION OF INTER/MULT	INNOVATION PROJECT; LEVEL OF NOVELTY TIDISCIPLINARY AND GENDER ASPECTS
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ublity ^{re} . As a consequent	ce, the world's of taxonomic knowledge	i – the number of species described, the quality of species
ies descriptions and the ti	requency of reclassifications - varies a	continuity across term and regions".
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Page 1

Excellence: Research & Innovation

- Show how the project is organized in work packages.
- Research questions presented by WP.

Page 2

	al sampling effort when extran	apecies richness
over large under-someled areas ⁽¹²⁾⁽¹⁰⁾⁽⁰⁾ . Yet the impact of account of the derstood. Addressing and problem starts by identifying drivers of the	the company and uncovering	nain poorly un-
dynamics ¹⁴⁴ . Efforts in this direction are still scarce ¹⁴ , except to		oputur
The emergence of global biodiversity detablished and new methods volumes of historical data documenting the terrory all and spatial dwarf dwarf.		
	to understanding of block-refer they	
	eries, which is key for setting promoe	

OBJECTIVES & OVERVIEW OF THE PROJECT

TAXON-TIME aims to scrutinize taxonomic effort across the 250	ical of African and Amazonian tree
flora and analyse its impacts on macroecological patterns of species abundance	e and rich (dox 1). The two biomes represent
the largest rainforests in the world and harbour extra confinence tree diversion of	moomin in African and Amazonian rain-
forests still romain patchybert, many trees specific at	disappear before being accurately
described. Understanding past taxonomic efforts (WP1) can help to catabilish pri-	in uses for future taxonomic research (WP2), while
providing empirical evidence of how change in taxonomic classification impacts of	our understanding of biodiversity (WP3, WP4).

Box 1. Research questions addressed by TAXON-TIME

MP 1	DAT SET OF TAXONOMIC DISCOVERIES AND RECORD OF AFRICAN AND TO TREES Complement of anti-set tracing the history of tacavanic discoveries and reclassifications, complemented with ancillary information on species descriptions
WP2	The second
MP3	INCORPORATING TAXONOMIC RECLASSIFICATIONS INTO MARKET PROVIDE TAXONOMIC RECLASSIFICATION RECLASSIFICATIONS INTO MARKET PROVIDE TAXONOMIC RECLASSIFICATION RECLASS
WP4	INCORP. DOWN MIT DECOMPOSITION OF THE DECOMPOSITION

group, TAXON-TIME will conduct original research to link taxonomy and method of the second state of the se

STUDY SYSTEM AND MODEL GROUP – The cores of African and contain rainforests, hereafter African and Amazonian trees, are the ideal model on the contest the contest starts and contribution to global ecosystem envices. African and Amazonian trees have attracted the test of a clentite contest starts and contribution to global form the contest of the contest starts and contribution to global form the contest of the contest starts and contribution to global form the contest of the con

WP1	ABASE OF TAXONOMIC DISCOVERIES AND RECLA	SOLDO ATIONS OF A PRICES	AMAZONIAH TREES
LIST C.	AND AFRICAN TREES - To complete	TAXON-TIME WILLING	e recently collated checklists for
Africa	nd Amszonium Trees. The checklist for African	and from the R	KINBIO databasetm that contains
3000 name	is of use species. The two checklists front in contain the	ogether comprise 1	fires appendix in diver-
gences in th	he names contained in the checidasta for Amazonia	, TAXON-TIME will take a cor	servative and heuristic appoint.

"Rocchini et al. (2017) Sci Tot Environ, 584–585/282. "Edie et al. (2017) PNAS, 114/3666. "In: Science, 342-1243092. "Franz et al. (2017) Cladistics, doi:10.1111/ cla.12201. "Nickolson et al. (2012) Zootaxa, 34771. "Venese et al. (2013) Zootaxa, 3635/201-244. "International Plant Name Index. http://www.ipni.org. "Biodiversity Infernation Facility (GBIF) https://www.gbif.org/. *Sosef (2017). BMC Bio, 1515. "Ite: Science, 41. (2017) Sci Tot Environ." (Signature) Science, 342-1243092. "Franz et al. (2017) Cladistics, doi:10.1111/ cla.12201. "Nickolson et al. (2012) Zootaxa, 34771. "Venese et al. (2013) Zootaxa, 3635/201-244. "International Plant Name Index. http://www.ipni.org. "Biodiversity Information Facility (GBIF) https://www.gbif.org/. *Sosef (2017). BMC Bio, 1515. "Ite: Steege et al. (2016) Nat Sci Rep. (25342). "Macky et al. (2016) Phytotieya, 74.1-18. "http://www.fici.org." http://www.gbif.org. *Expected al. (2017) Cladistics, doi:10.1111/

Excellence: Methods

For each WP, provide a short description of the methods.

Page 3

species names will be considered which if they appear on both lists. All species names will be checked against nomenclatural databases^{14,431} and if determined value, included the dataset in the file of the south of the checking for each African and Amazonian trees (milestone M1). The south of the basis in application of the back NOVEL DATAR & OF TAXONOMIC DISCOVERIES AND RECLASSIFICATIONS (T4-DB) - TAXON-TIME will use the page of the back inversion tree species over the page 250 years. This database documenting discoveries and reclassifier of African and Amazonian tree species over the page 250 years. This database on Temporal Taxonomy of Topical Trees, herearts 14-DB, will record the history of species names and and an application of the back.

butes to approximate quality of sp	ected descriptions (M2). A prelimit	on and organization: A literature survey suggests the following: 1)	number of pages
		mic range covered in a description, 3) n	
		history collections, 5) presence of ima	
		al, genetic and spectroscopy data) to de	
The world-leading taxonomic extra			
		hat appropriate proxies for the quality of	
tions lied. Information or	the identified proxies will be: (1) extr	scied with advanced text mining techni	from botan-
ical literature (e.g. Floras & Mono	graphs), digitally a subset through the	e Blodiversity Heritage Library and	diobal Plants

Tropicos®^{IM}, The Plant List^{IM}, and The Catalogue – Life^{IM}. Ontology-onven data integration, a promising technique to unsamine data assembling^{IM}, will be used to link information retrieved from the various sources. The constraint technique to unsamine data assembling^{IM}, will be used to link information retrieved from the various sources. The constraint technique to unsamine data assembling^{IM}, will be used to link information retrieved from the various sources. The constraint technique to unsamine data assembling^{IM}, will be used to link information retrieved from the various sources. The constraint technique to unsamine data assembling^{IM}, will be used to link information retrieved from the various sources. The constraint technique technique to unsamine at University of TAXON-TIME will guarantee the database is timely compiled. 2. A stermonth second in the early phase of TAXON-TIME will guarantee the database is timely compiled. 2. A perticular technique to unsamine to verse, authors and/or attributes. To this end, a diprotocol for data litering will be deviced. Experts of the African and Amazonian the from Incl. Dr Dauby and Profiter Steege; will be consulted to verify specific entries (M3), 3. Netation documenting metadata aligned with the Darwin Core standard will be adopted to ensure universal usability of T4-DB. The validated database (D2) will be deposited at a public database (D2) will be deposited at a public database (D2) will be deposited at a public second (Second).

WPP, TRACING THE MISTORY OF TAXONOMIC DISCOVERIES AND RECLASSIFICATIONS

TAXUN-TIME will use 14-05 a reconstruct the history of taxonomic discoveries and reclassifications for African and Amazonian trees. A Bayesian phylogenetic analysis of soften to infer rates and drives of obside appecles names. TAXON-TIME will replace the connections between and escendant, species that are the bally established as sets of phylogenetic trees by connections between species sharing a common name (Fig. 1). Then, character-dependent diversification-rate models⁽³⁰⁾ will determine: 1) correlations between rates at which species names change and the attributes of species descriptions; and 2) the probability that species j undergoes a change of the species of the sp Based on this analysis, TAXON-TIME will go one step further and uncover the geography of taxonomic stability. The probability that species j undergoes a change of name at time t (M6) will be associated with information on the species' geographical location. Geo-referenced locations of species occurring and a location () data portals (e.g., GBIF); and 2) databases of tree inventories, such as Forestplots net²⁸, ATD/science inventories, The ER is member of Forestplots.net and ATDN, Dr Dauby is part of PAINER, ______ inclinate access to these data. Species locations will _____ creened for erroneous/uncertain positioning^{27,54}. After associating the probability for a name change with the location of species, spatial interpolation will produce a continuous surface of probability of changing names across African and Amazonian rainforests for discrete time intervals. These maps will be merged into a single map in order to identify regions hardwards and the second state of the state of the second s between areas of taxenomic stability due to high quality taxonomic descriptions or lack or taxonomic short will be made. The final map and sublidy will be overlaid with contemporary maps of and cover (MS) to analyse whether taxonomic effort. embraces taxa usat predominately occur in differented areas (03; M7). Standardised (and comparable) measures of deforestation for African and Amazonian rainforests will be reused on the descent the d priorities for taxonomic researches, an important task by the Global Taxonomic Instative (GTI)³⁴⁴ and the sum of European Taxonomic Facilities (CETAF)^{48]}, both open help countries evaluating by 2020 their progress towards the Alech Biodiversity Target 1%. has increased in recent years there are still gaps in understanding the filled, such as those related to taxonomy. 448 This WP draws on the experience of the ER^{(4),43,31} and the world-leadership of Dr Hortal (Scientist-in-Charge) in macroecological modelling^{14,33} and scrutinizing biodiversity data^{14,3}. The expertise of Dr. Samsania in Parallan analysis^{14,43,30}, Dr. Bastin in spatial modelling 14 44, and Dr Dauby and Profiler Steege on African and Amazonian tree Toras will ensure completion of this WP [D3: paper submitted to Science (JIF2016= 37.206), or Science Advances (JIF2017= 11.51)].

^{**}Boyle, B. et al. (2013) BMC Bioinform, 14:16. **Recknagel, F. & Michener, W. Eds. (2018) Ecological informatics. 978-3-319-59928-1. **The Plant List. http://www.theplantlist. orgf. **/W3 Tropics http://www.tropicco.org/. **The Plant List. http://www.theplantlist.org/. *The Catalogue of Lie. http://www.totalogueoffile.org/. "Michener et al (2012) Trends Ecol Evol 27: 85-93. **Maadison (2007) Syst Biol, 56:701. *http://www.forestplots.net. *http://ant.myspecies.info/ */United Nations (FAU), Global Forest Resources Assessment (FAU, Rome. 2010). *Smith et al 2015 Phytotaxa. **thtp://www.cbl.int/gli/. *https://celat.org. **Convential on Biological Diversity.https://https://biological Diversity.https://biological Diversity.https://biological.interview.cbl.int.

Excellence: Methods

- How to convince evaluators that you are able to do the work?
- Show that you have done similar work before (cite your own articles or those of your supervisor).

Page 3

species names will be considered with if they appear on both lists. All species names will be checked against nomenclatural data- bases ^{14,32} and if determined value, indicating a same the data species names will be checked against nomenclatural data- damazonian trees (milestone M1). The second respective species of the data species of the data species of the data species of the data species and the data species are the past 250 mm. This database documenting discoveries and reclassifier of the database document of the database document document of the database document document of the database of the database document document of the database of the database document document of the database document document document of the database document document document of the database document
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When TO LODGE THISTORY OF TAXONOMIC DISCOVERIES AND RECLASSIFICATIONS TAXON-TIME will use 1-10 meconstruct the history of taxonomic discoveries and reclassifications for African and Amazoni-

TAXUN-TIME milluse in econstruct the history of taxonomic discoveries and reclassifications for African and Amazonian trees. A Bayesian phylogenetic analysis in the toted to infer rates and discoveries and construct a names. TAXON-TIME

Example: The experience of the ER [47,48,30] in bla-bla and the world-leadership of XX (Scientist-in-Charge) in bla-bla-bla [e.g.,3] will ensure completion of this WP [D3: paper submitted to ZZZ (JIF2019= xx), or YYY (JIF2019= xx)].

Excellence: Two-way knowledge transfer

- How important is the project for developing your scientific skills?
- Importance of the project for your career
- How important is the project for your host institution?
- Importance of the project for the host institution

1.3 Quality of the supervision, training and of the two-way transfer of knowledge between the researcher and the host

At a minimum, address the following aspects:

- Describe the qualifications and experience of the supervisor(s). Provide information
 regarding the supervisors' level of experience on the research topic proposed and their
 track record of work, including main international collaborations, as well as the level
 of experience in supervising/training, especially at advanced level (i.e. PhD and
 postdoctoral researchers).
- Planned training activities for the researcher (scientific aspects, management/organisation, horizontal and key transferrable skills...).
- For European Fellowships: two-way transfer of knowledge between the researcher and host organisation.
- For Global Fellowships: three-way transfer of knowledge between the researcher, host organisation, and associated partner for outgoing phase.
- Rationale and added-value of the non-academic placement (if applicable).

- Excellence: Two-way knowledge transfer
 - Which skills will you acquire?
 - How? Course, meetings, hands-on-training, etc.
 - With whom? Names of researchers or institutions involved in the training

Página 5 - 6

Training (two tables) host institution \rightarrow candidate candidate \rightarrow host institution

1.2 QUALITY AND APPROPRIATENESS OF THE TRAINING AND OF THE TWO WAY TRANSFER OF KNOWLEDGE BETWEEN THE RESEARCHER AND THE HOST

Training is tailored to expand EIT specific research and career development skills in macroecology and methods for inta-intensive research. Nouvledge will be transferred to the mutual benefit of ER, MNCN-OSIC, UL and collaborating organizations, with a view on their specific needs and strengths.

TRANSFERABLE SKILLS FROM THE HOST AND COLLABORATING INSTITUTIONS TO ER

TRAINING ON RESEARCH SKILLS: ER will receive outstanding training in three areas (Table 1). 1. Die mendere research⁴⁴, The ER will expand her skills on compiling and anthrning large databases through dedicated training session, and guidance of Prol Schmere during second and to UL (VPI). Nowledge will be entriefed to state-of-the-art meuods for data mement planning, knowledge uiscovery and data mining, ontology-driven data cues, and interpation, data quality control, exploratory analysis and visualization of large datasets. 2. Bayesian cuesces and scripting in the total will be provided for the state-of-the-art meuods for data mining into analysis and visualization of large datasets. 2. Bayesian cuesces and scripting in the state-of-the-art meuods for data in the ER will learn scripting Bayesian analysis using the compiler revealages^{the} for the state-of-the-art meuods for data interactive language in a C++ any comment with more speed for proces. Training will be provided through the course MADPHYLO^M with Dr Rocchini MMD in the course the state of the state interval of the state quired under Points 1 and 2 into a trace of the theory and interval and interaction and the interval of the state (S-mitst-in-Charge). The theory and the total into a scologies are the state of the interval of the acquired under Points 1 and 2 into a theory with interval and expert in macroecological models. His mentoring will be delivered through direct collaboration and regular meetings (30-min weekly and 90-min monthly, plus lab meetings every second weekly, followed by larger meetings and work sessions when needed. The ER will eventually take formal courses when appropriate.

TRAINING OBJECTIVES FOR CAREER DEVELOPMENT SKILLS: TAXON-TIME will provide skills necessary for the EP's future career development (Table "). This training will be delive	red mostly via mentoring from Dr Hortal
and formal courses provided by COC. 1. Science leadership, writing and presentation ski	is. The ER will be mentored to enhance
her science communication skills, enhancing her demonstrated ability to publish research in	comments of ournals (D3, D4, D5), deliver
oral presentations (Dr1, Dr2, Dr4) and extrant https://www.upinedia.com/	in the ER will develop her skills in
communications in a superfirm activities to broad audiences through WNU	
vision skills. The ER will be avoived in supervising MSc students at MNCN-CSIC and UL (p3	
working will be EP will enlarge the primatic network by interacting with the extensive ne	tworks of Dringham and Piol Schommer
and by enabling interaction between all researchers involved in TAXON-TIME 5. Artministr	ative skills and idils. The
ER will have autonomy in her day-to-day work and budget responsibilities in convinced by the	Scientist-in-Charge and ON-CSIC's
finance department. The will advance her experience in financial management, and proje	

Table 1. Training activities to transfer knowledge and skills from host and collaborating organizations to ER; TR- training-through-research; HoT - hands-on training of scientific skills; CD - career development skills

TRANSFERRED	TYPE OF TRAINING	STRATEGY TO ACQUIRE TRANSFERABLE KNOWLEDGE AND SKILL	INVOLVED STAFF FROM HOST OR COLLABORATING ORGANIZATIONS
1: Data-intensive research	TR: HoT	 Weekly meetings on concepts, techniques and revision of scripts in course on Knowledge Discovery and Data Mining; discommittion of data and scripts on public repositories 	Prof Sr 1
2: Bayertim statistics (Revi: 1/13)	TR; HoT	() 10-developmentic MADPV/LD on Process and the first () advised on the second se	Dr Samerica
3: Beyenian statistics (R environment)	HoT	i) short stay at Dr Rocchin's lab to implement Bayesian models in R; ii) joint writing of papers	DrRechter
4 Macroec modelling	TR: HoT	 i) periodic meetings on concepts, frances of macroecology, and modeling approaches; ii) joint writing of papers 	Dr Hortal
5: Career development	CD	i) interaction with remarch networks of MNOH-CSIC, UL, and the advisory panel; i) research presentations, outreach to stakeholders	MNCH CSCL

TRANSFERABLE ER SKILLS TO THE HOST AND COLLABORATING INSTITUTIONS: Skills gained by the ER during TAX-ON-TIME, her pre-extering skills and collaboration network will considerably enhance research, networking and training opprocurpties for both MM/GMLSUP and LI (Table 2).

Excellence

Impact

Implementation

Interpretação das notas:

0 – The **proposal fails to address the criterion** or cannot be assessed due to missing or incomplete information.

1 – Poor. The criterion is inadequately addressed, or there are serious inherent weaknesses.

2 – Fair. The proposal broadly addresses the criterion, but there are significant weaknesses.

3 – Good. The proposal addresses the criterion well, but a number of shortcomings are present.

4 – Very good. The proposal addresses the criterion very well, but a small number of shortcomings are present.

5 – Excellent. The proposal successfully addresses all relevant aspects of the criterion. Any shortcomings are minor.

Page 8 Dissemination

Impact: Dissemination & Exploitation

- Output based on scientific deliverables: e.g., TAXON-TIME One oral presentation at xx.
- Key message [Deliverable]
- Targeted audience: e.g., TAXON-TIME: Modelling communities (e.g. ISIMIP) and biodiversity data experts, operators of biodiversity data infrastructure; BSc and MSc students, with attention to early career female researchers
- Expected impact: e.g., TAXON-TIME: results firmly disseminated within the scientific community. Young women encouraged to explore methods of data-intensive research

A rigid dissemination plan w sity data experts, Management Plan (D1 rect use in legislative activitie	olicy makers and policy on the results of Tr	AXON-THE POLICE	Tuble 3). The disservice policy makers (W	f data is formalised under the Data
--	---	-----------------	--	-------------------------------------

OUTPUT BASED ON SCIENTIFIC DELIVERABLES	KEY MESSAGE AND DELIVERABLES¹	TARGETED AUDIENCE	EXPECTED IMPACT
1: Three articles publicly of via orders open access of proceeding of the order data dependent in publicly of the order of the (Githup or Zenoto)	- Answer in quest shifts in the fect our understanding 1/?	Taxonomistic formation reaction ecologistic	i) TAXON-TIME reachs firmly discense scientific community using shift in mechanology
2 One oral process trim delivered in an integration of the state of th	TAY ^{110 TH Att Advises an attended work and the second sec}	Model: The structure biodiversity contracts of biodiversity contracts of biodiversity contracts of the structure biodiversity	High sector of reject's result are involved in TAXUN- ong scientists and block of data experts
3: Two oral presentation one nt the European Common is a governmental body in 1917	Research reveals taos and motions for which to is most urgan pr	(ARC EC, and a second participation)	Increments of governments of in Europe and Philippitance uportance and Philippitance uportance of the search
4 One Post in a popular science in a MNCH- CSIC (Spain): NPA in the science of duta-intensive science of macro 1, 02	Tent of stops and data-	BS: and MSe students, with attention order composition of the	Broom a women to endor a methods of cale-intensive research
5: One and a second strain delivered in an information of the second sec	P nes	Sinior no caser La constanti caser ecologista, e constanticologista	Persit I in taxonomy and in Lology

2.3 QUALITY OF THE PROPOSED MEASURES TO COMMUNICATE THE PROJECT ACTIVITIES TO DIFFERENT TARGET AUDIENCES

Consistent with the design of	tion of results, the re-	search activities L	the convertinicated to a writter a	inferice through
a rigid comm		the lay public interested a	History Collections,	ents and
gender balance in rescurch (Til	Project activit	ies will be communicated during t	he entire course of TAXON-TIME	(S).

Table 4. Communication plan for the activities of TAXON-TIME

OUTPUT	KEY MESSAGES AND DELIVERABLES'	TARGETED AUDIENCE	EXPECTED IMPACT
1: Project website	TAXON-TIME 1.1.1	Commitmented in actions	Bit is ability of TAXIN TO a full involves organized on the suscence of the suscences about the suscence of the surgery Collections and if tools for must any gy
2 Mail Tofion in the permant exhibition	TAYIM. The first time tic knowledge and fican treas the per 250 mm (7/2)	Constraine table No. (190	The mass sublic surface in CN- mass about E. mbut mic and global biodiversity research
3: Participas MSCA ambassa	to global biodiversity	such such such such such such such such	Report of the second se
4: Participation in the second se	TAXON-TIME explores the contribution of fermine covery of Amazonian and here of the covery	General and ingeneral and	Increased use about the adventic committee and the text of tex

'Deliverables are specified in Table 5: "The link to project website and video will be available on the websites of MHCH-CSIC (Spain), Naturalis (the Netherlands), UL (Lurembourg), and Herbarium of the Brazilian Institute for research in the Amazon (INPA). These websites receive thousands of visits from the general public of virtually all ages and professionals of the educational sector; MMCN is the largest Spanish Natural History Museum; its exhibitions receive >150K visitors/year? See footnote in Table 2.

Impact: Dissemination & Exploitation

YEAR 1 - Rejected

Results will be communicated during the entire course of TAXON-TIME . **Priority will be given to exploit and disseminate scientific results, giving full access to the database generated** (Table 3). This database will be stored in public repositories such as Zenodo, and will also be available for download at the website of the MNCN (Spain). The target audience of both phases will be the general public, policy makers, donors and young and senior researchers".

YEAR 2 – Approved

A rigid dissemination plan will be implemented to ensure TAXON-TIME firmly reaches its intended audience, including scientists, biodiversity data experts, but also policy makers and potential funding agencies (Table 3). The dissemination of data is formalised under the Data Management Plan (D1). Although the results of TAXON-TIME have relevance for policy makers (WP2), they do not lend themselves for direct use in legislative activities. The dissemination plan will be subject to a periodic review during the entire course of the project (Table 5).

Impact: Dissemination & Exploitation

YEAR 1 – Rejected

In line with the guidelines "Communicating EU research and innovation guidance for project participants", in Table 4 we outline the activities that will be carried out to maximize the impact of TAXON-TIME.

Evaluation Report Weaknesses:

"Relevant target audiences, such as the local stakeholders in studied tropical regions, are not adequately discussed in the dissemination Strategy".

YEAR 2 – Approved

"Consistent with the dissemination of results, the research activities of TAXON-TIME will be communicated to a wider audience through a rigid communication plan. Addressees of this plan include the lay public interested in Natural History Collections (Table 4). Project activities will be communicated during the entire course of TAXON-TIME (Table 5)".

Evaluation Report

Strength:

The proposed measures to disseminate the project results are clearly presented and described; these will increase the visibility of the project and researcher. The research findings will effectively reach a broad range of pertinent target groups including the scientific community and policy-makers. - "The planned communication routes and activities that are aimed at reaching different audiences are impressive and include an ambitious plan for engaging the general public."

Weakness:

Details on potential exploitation of the project results are incomplete.

Excellence

Impact

Implementation

Scores

0 – The **proposal fails to address the criterion** or cannot be assessed due to missing or incomplete information.

1 – Poor. The criterion is inadequately addressed, or there are serious inherent weaknesses.

2 – Fair. The proposal broadly addresses the criterion, but there are significant weaknesses.

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5 – Excellent. The proposal successfully addresses all relevant aspects of the criterion. Any shortcomings are minor.

Implementation

Page 9

Gantt Chart (one table)

Table 5. Work plan of TAXON-TIME. Person-month (pm): one person-month equals 168 hours of work; i.e. 21 days of 8 working

															Yea	ar 1								_
										1	2	3	4	5	6	7	8	9	10	11	12	13	14	1
Main research / training activities	P	oject	mem	bers	invol	ved i	n tasl	k* (pr	n)															
WP1: COMPILATION OF T4-DB	ER	SiC	SS	LB	GD	DR	IS	HtS	Σ		M1													
i. Compilation of the checklist	0.9				0.1			0.1	1.1	0.5	0.4													
ii. Lit. review (proxy quality sp. description)	0.9	0.5							1.4	0.5	0.4		D1				M3							
iii. Data mining and db compilation (UL)**	5.9		1.0		0.1			0.1	7.1		M2	1	1	1	1	1	0.9						D2	
WP2: TAXONOMIC DISCOVERIES AND REVISIONS												T1							M4					
i. Integr. of geo-location of sp. into T4-DB	0.6								0.6									0.3	0.3	M5				
ii. Compilation of land-cover data	0.5			0.1					0.6									0.2		0.3	M6			
iii. Characdependent diversrate models	1.5						0.8		2.3										0.5	0.5	0.5	M7		
iv. Interpolation and overlay analysis	0.4			0.2					0.6										T2		0.2	0.2	D3	
v. Writing scientific article	2.3	1.0	0.5	0.3	0.3		0.2	0.2	5.3								0.1	0.1	0.2	0.2				
WP3: MACROECOLOGICAL MODELS																								м
i. Integration of sp. abundance into T4-DB	0.9							0.2	1.2														0.1	0.
ii. Models of change in the structure	1.4	0.5							1.9															
iii. Writing scientific article	2.1	1.0	0.5		0.3			0.2	4.1															
WP4: BIODIVERSITY ESTIMATES																								
i. Ana inclan time series regression	1.8					0.3			2.1															
ii. Writing scientific article	3	1.0	0.5		0.2	0.3		0.2	5.2															
TOTAL person-month	2.2	4.0	2.5	0.6	1.0	0.6	1.0	1.0		1.0	0.8	1.0	1.0	1.0	1.0	1.0	1.0	0.6	1.0	1.0	1.0	1.0	0.7	1.
WP5: DISSEMINATION AND COMMUNICATION																								
i. Dissemination and Communication of results		0.2							1.2		Cr1							Dr1	Cr2			Dr2.1	Dr22	
WT: PROJECT MANAGEMEMT																								
i. Organisation and management	Incl	uded	above	2						01	02						03						04	
ii. Progress reporting											Pr1				Pr1				Pr1		DT1	Pr1		
ii. Progress monitoring										P1	P2		P2	P1		P2		P1	P2		P1		P2	P
											Res	earch			Trair	ning t	hroug	h res	earch	1	Т	Ded	icate	l tra

*ER; SiC (Scientist-in-Charge) - Dr Hortal; SS (Supervisor during secondment) - Prof Science 1.B - Dr 1 - Lin; GD - Dr Daubi; DR - Dr Rocchini; IS - Dr Saudi antion 1/15 - Prof ter Steege. **Activity durin

Milestones [M] – [M1] Check lists of AFR AMZ trees compiled; [M2] Proxy of quality of species description defined based in a literature review; [M3] T4-DB compiled; [M4] Ge
Land-cover data compiled; [M6] Character-dependent diversification-rate models built; [M7] Spatial Interpolation of nomenclatural stability performed; [M8] Data on field species
chance in community structure built; [M10] Bayesian time series analysis performed.

- Gantt Chart organized by WP
- Rows: main activities (as in the text)
- Google: Gantt Chart Templates

Implementation

- Milestones and deliverables mentioned in the text
- Balance between ambition and reality; e.g., TAXON-TIME: 2 main papers and 1 database

Page 9

Gantt Chart (one table)

Table 5. Work plan of TAXON-TIME. Person-month (pm): one person-month equals 168 hours of work; i.e. 21 days of 8 working

															Yea	ar 1								
										1	2	3	4	5	6	7	8	9	10	11	12	13	14	1
Main research / training activities	P	roject	t mem	nbers	invol	ved i	n tasl	k* (pr	n)															Г
WP1: COMPILATION OF T4-DB	ER	SiC	SS	LB	GD	DR	IS	HtS	2		M1													Г
i. Compilation of the checklist	0.9				0.1			0.1	1.	0.5	0.4													Γ
ii. Lit. review (proxy quality sp. description)	0.9	0.5							1.	0.5	0.4		D1				M3							Г
iii. Data mining and db compilation (UL)**	5.9		1.0		0.1			0.1	7.		M2	1	1				0.9						D2	Γ
WP2: TAXONOMIC DISCOVERIES AND REVISIONS												T1							M4					Γ
i. Integr. of geo-location of sp. into T4-DB	0.6								0.	5								0.3	0.3	M5				Γ
ii. Compilation of land-cover data	0.5			0.1					0.	6								0.2		0.3	M6			
iii. Charaodeper int diversrate models	1.5						0.8		2										0.5	0.5	0.5	M7		Γ
iv. Interpolation and overlay analysis	0.4			0.2					0.	5									T2		0.2	0.2	D3	Г
v. Writing scientific article	2.3	1.0	0.5	0.3	0.3		0.2	0.2	5.	1							0.1	0.1	0.2	0.2	0.3	0.8	0.6	E
WP3: MACROCOLOGICAL MODELS																								1
i. Integration of sp. abundance into T4-DB	0.9							0.2	1.	2													0.1	0
ii. Models of change in the structure	1.4	0.5							1.															C
iii. Writing scientific article	2.1	1.0	0.5		0.3			0.2	4															C
WP4: BIODIVERSITY ESTIMATES																								Γ
i. Ana a colon time series regression	1.8					0.3			2															Γ
ii. Writing scientific article	3	1.0	0.5		0.2	0.3		0.2	5.	2														
TOTAL person-month	22.2	4.0	2.5	0.6	1.0	0.6	1.0	1.0		1.0	0.8	1.0	1.0	1.0	1.0	1.0	1.0	0.6	1.0	1.0	1.0	1.0	0.7	ľ
WP5: DISSEMINATION AND COMMUNICATION																								
i. Dissemination and Communication of results	1	0.2							1.	2	Cr1							Dr1	Cr2			Dr2.1	Dr22	4
WT: PROJECT MANAGEMEMT																								Γ
i. Organisation and management	Incl	uded	above	e						01	02						03						04	Γ
ii. Progress reporting											Pr1				Pr1				Pr1		DT1	Pr1		Γ
ii. Progress monitoring										P1	P2		P2	P1		P2		P1	P2		P1		P2	Г
											0	earch					L	1	earch		т	Deal	icate	

<u>Milestones [M]</u> – [M1] Species check compiled; [M2] Proxy of xxx based in a literature review; [M3] Database compiled; [M4].. [M10] Bayesian time series analysis performed.

<u>Deliverables [D]</u> – [D1] Data management plan delivered; [D2] Database uploaded to a public repository; [D3] Paper WP2 submitted; [D4] Paper WP3 submitted; [D5] Paper WP4 submitted.

Implementation

- Milestones and deliverables mentioned in the text
- Balance between ambition and reality; e.g., TAXON-TIME: 2 main papers and 1 database

Page 9

Gantt Chart (one table)

Table 5. Work plan of TAXON-TIME. Person-month (pm): one person-month equals 168 hours of work; i.e. 21 days of 8 working

															rea	ar 1								
										1	2	3	4	5	6	7	8	9	10	11	12	13	14	1
Main research / training activities	P	roject	t men	nbers	invol	ved i	n tas	k* (рі	m)															Г
WP1: COMPILATION OF T4-DB	ER	SiC	SS	LB	GD	DR	IS	HtS	2		M1													Г
i. Compilation of the checklist	0.9				0.1			0.1	1.	0.5	0.4													Г
ii. Lit. review (proxy quality sp. description)	0.9	0.5							1.	0.5	0.4		D1				M3							Γ
iii. Data mining and db compilation (UL)**	5.9		1.0		0.1			0.1	7.		M2	1	1				0.9						D2	
WP2: TAXONOMIC DISCOVERIES AND REVISIONS												T1							M4					Γ
i. Integr. of geo-location of sp. into T4-DB	0.6								0.	6								0.3	0.3	M5				Γ
ii. Compilation of land-cover data	0.5			0.1					0.	j -								0.2		0.3	M6			
iii. Characdependent diversrate models	1.5						0.8		2	3									0.5	0.5				
iv. Interpolation and overlay analysis	0.4			0.2					0.	i 🛛									T2		0.2	0.2	D3	Г
v. Writing scientific article	2.3	1.0	0.5	0.3	0.3		0.2	0.2	5.	1							0.1	0.1	0.2	0.2				
WP3: MACROCOLOGIC COLOGELS																								M
i. Integration of sp. abundance into T4-DB	0.9							0.2	1.	2													0.1	0
ii. Models of change in the structure	1.4	0.5							1.															0
iii. Writing scientific article	2.1	1.0	0.5		0.3			0.2	4															0.
WP4: BIODIVERSITY ESCILLATES																								Γ
i. Ana initian time series regression	1.8					0.3			2															
ii. Writing scientific article	3	1.0	0.5		0.2	0.3		0.2	5.	2														
TOTAL person-month	22.2	4.0	2.5	0.6	1.0	0.6	1.0	1.0		1.0	0.8	1.0	1.0	1.0	1.0	1.0	1.0	0.6	1.0	1.0	1.0	1.0	0.7	1
WP5: DISSEMINATION AND COMMUNICATION																								
i. Dissemination and Communication of results	1	0.2							1.	2	Cr1							Dr1	Cr2			Dr2.1	Dr22	2
WT: PROJECT MANAGEMEMT																								
i. Organisation and management	Incl	uded	above	9						01	02						03						04	
ii. Progress reporting											Pr1				Pr1				Pr1		DT1	Pr1		Г
ii. Progress monitoring										P1	P2		P2	P1		P2		P1	P2		P1		P2	F
											Res	earch			Trair	ning t	hroug	h res	earch	1	Т	Ded	icate	d tr
*ER: SiC (Scientist-in-Charge) - Dr Hortal: SS (Supervisor of	lurina		dman	4) . De						00.0			0.0			0.0						. **Ac	al des	

<u>Training [T]</u> – [T1] Data Mining; part of the master program (XX); [T2] Madrid workshop on Phylogenetics (RJB-CSIC)...

Dissemination [Dr] & Communication [Cr] – **[Cr1]** Project website... **[Cr3]** ER's participation in xx; **[Dr1]** Oral presentation at xx

Project Management [O] and Progress Monitoring [P] – [O1] Formal meeting with CSIC staff for implementation of MSCA grant; [O2] [P1] 40 min. e-meetings with xx [Pr1] Risk assessment report

Implementation

YEAR 1 – Rejected

Project year - Calendar year					1	l'ear	1					1					Yes	£2					
	1	2	3	-4	5	6	7	8	9	10 1	1 12	1	2	3	- 4	- 5	- 6	7	8	. 9	10	11 1	12
Main research / training activities												1											
WT - Project management	-			- 1		1	1				DT			-								D	T.I
WP1 - Data management								-								_							
i. Literature review and database comp (DB-				-	M	1								-			_		-	-	-		_
i. Literature review and data mining and								- 5	M2						DI								
1. Database compilation (DB-Plots)	_						1	1										M3					
WP2 - Q1 and Q2																							_
i. Time series analysis											364		-	_									
ii. BSTS													MS										
iii. Writing scientific article															D2								
WP3 - Q3													1										_
i. Spatio-temporal analysis												_			M6								
ii. Writing scientific article	_														D2								
WP4 - Q4 and Q 5									_		1		1	-									
i. Analitical framework	_		-						_	-				-			-	M7		_		-	
ii. Writing scientific article																			D4.1	D4.2			
WP5 - Q6									_														
i. Analysis -			_					_	_				_	_		_			_	_		D	5
ii. Writing scientific article																							
WP6 - Exploitation and Dissemination												1						_					_
i. Various activities		EI			123	1	4			10					E4	- 1	£3		-	1	£5		
ii. Scientific conferences					50	CI.								SC2									
	M	Märs	tone		D D	eliver	able		_							_			-	_			

<u>Weaknesses</u>

- The **allocation of resources is presented in only a general manner** and not discussed i sufficient detail.



YEAR 2 – Approved

Strengths:

- Details of the work plan are coherent and effective; impressive **attention has been paid** to these and to the description of the allocated tasks.

- The work packages of the proposal are logically inter-related and he Gantt Chart provides

an excellent overview of the distribution of the

work load for the researcher and collaborators.

- The management structure is very good and includes coherent and effective progress monitoring to ensure delivery of the project objectives.

- Risks are very well identified and effective mitigation measures are proposed.

- The host and seconding / collaborating institutions have the necessary infrastructure,

facilities and environment to enable the researcher to

undertake the project successfully.

Layout

YEAR 1 – Rejected

TAXON-TIME - Standard EF

START PAGE COUNT - MAX 10 PAGES

1. EXCELLENCE

1.1 Quality and credibility of the research action

Initiatives to conserve biodiversity face	a dilemma. They rely on mecies id	lentities to justify politic	al support and
tend to consider species that cert	ain and static. However, this view	neglects that species a	ge reclassified
following advances in taxonomic knowl	edge; thus, their names and homes	bjoct to a ch	obability of
change. Moreover, the uneven	of taxonomic hintwiedge a	cross taxa and	can affect the
patterns of species diversity and our al			
conservation initiatives and	the research still fail to explicit	fly account for the in	Thence of an
evolving taxonomic knowledge	en ledge gap represe	mary form of Land	UN-TIME To
address it, TAXON TO IS will uncover	ers of shifts in taxonomic .	knowledge over time an	d explore now
these shifts affect our understanding of b	iodiversity	0.5050	

Changes in species names due to taxonomic reclassification	an arise from: (i) the inadvertent re-description
of a species that had already been described (leader that had already been described (and the standing
of the relationships among species (leading to 'nomenciatural'	ic reclassifications can merge
previously different species into a single one (co-called human	g) or divide our sports and two or more species
(so-called 'splitting') Tramping and splitting of species all	lect the quality of biodiversity data[4] and the
effectiveness of the second minimutes [7]. Therefore, ratio	intic tags, species arrest thould be considered
standing hypotheses to be supported or refuted as new taxons	and knowledge become

The recent discoveries in the Thema data can illustrate how commonst increased recent first one impact the number, identity and a starts of energies there is a record breaker in the rate at which knowledge of from is growing? New plan discovery and the start of the relation of the start of already existing herbarium vouchers. Encoc hair of the weighted and the second se fications in a change dram. the identity and construction status of plant ty crazil^[9] and elsewhere and this development effects a global trend where two is reclassification advances our knowledge of the identity and existence of a

of the identity and excisence of the second second

enormously the diverse tails and taxemonic cultures¹⁴⁴. The test taxonomic knowledge itself remains nearly understood except a handful of the remainst provide understood except a handful of the remainst provide understood except as a set of the remainst provi

Biodiversity of the provide provide provide provide the transfer of the provide provide provide provide provide provide provide provide the provide provide the provide provide the provide pr coverage of these data can be now analysed with cutting edge statistical methods and computational more

YEAR 2 – Approved

START PAGE COUNT - MAX 10 PAGES





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2 IMPACT



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01

- Logo
- Colour
- Figures
- **Tables**
- Text in bold

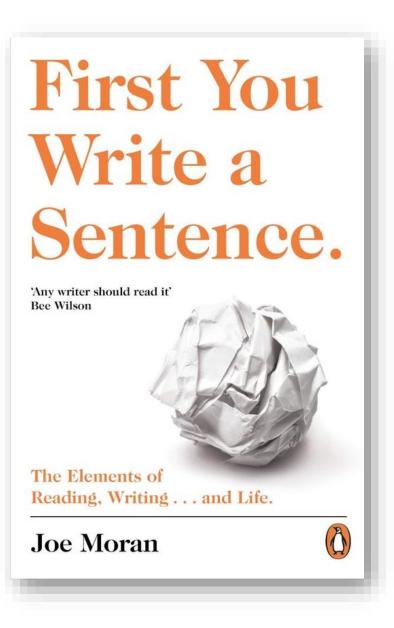
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5. Tips for writing - check for typos 🟵

- Acronyms should be easy to pronounce/remember
- Discuss your ideas, questions, and progress with colleagues (!!!)
- Towards the end: many revisions and corrections with supervisor

5. Tips for writing - check for typos 🕲

- "Learn to love the full stop
- Vary the length of your sentences
- Shorten your paragraphs
- Using mostly short words in a sentence has a happy side effect: a richer pattern of sounds
- When the vowel sounds vary and there are lots of stresses syllables, each word seems distinct from its neighbours. Every word counts
- ... fewer writers notice a bigger problem: repeated sounds
- Writing drifts into obscurity when it overuses a certain kind of abstract noun: a nominalization".





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