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To enable beginning researchers/writers to have the well-founded confidence to submit their scientific articles to impact factor journals and complete dissertations that will pass first time.

Publication strategy in geography

- "scientometry" all around Europe.
- Even for PGS.
- Connected with accreditation and department future.
- Why is this relevant for Ph.D. students??:
- Dissertation thesis monograph x article series (+ intro + conclusion).
- Money talks Specific research, category A for IF and Scopus publications (20 – 45 K).

How to ...?

- Quality vs. quantity
- No points conference proceedings (work in progress, discuss the preliminary results), journal (CZ + EU).
- Minimum SCOPUS journals (AIMT, Annals of GIS, ...)
- WoS journals with IF
- Geography (67 journals indexed on WoS).
- Multidisciplinary research.



Where do I start?

Research idea????

Is it novel/original? —— In a big or small way?

Check Literature/Discuss with colleagues/Peers

Reference data bases
(Web of Science/Science Direct/PubMed
Google Scholar/Infoseek/Journals/etc)

Can the "research" be carried out by you?

Nature of research

Laboratory based:

Literature/survey based

If something's worth doing – its worth doing properly.

Can the "research" be carried out by you at your institute?

What are the requirements:

- i) Scientific expertise
- ii) Available facilities /resources (equipped laboratory + computing)
- iii) Time frame (make a GANNT chart)
- iv) Group project/collaborations through networks
- v) Multi-disciplinary teams
- vi) Collaborative approach
- vii) Management/end goals
- viii) Financing increasingly the driving force.



Key Elements of Good Scientific Writing (Kathleen Fahy)

- Have an argument: (hypothesis, thesis)
- Use evidence to support your argument
- Achieve clarity & brevity with:
 - careful and consistent word choice
 - short sentences with **subject first**
 - Clear and logical structure, flow
 - Coherence and avoidance of extraneous ideas or data.



Accuracy

- Define your key terms
- Choose precise words and use the same word consistently each time

Brevity

Use the fewest words possible

Clarity

 Use simple words so that an educated reader can understand you

Scientific Sentences

A sentence is a group of words about a single idea, which contains a least one subject and at least one verb. **SVOMPT** (word classes).

Scientific sentences are short. The subject of the sentence comes first.

Write Short Sentences

Poor Sentence

When tobacco smoke is inhaled it takes 10-20 seconds for nicotine to be delivered to the central nervous system via the arterial circulation.

When tobacco smoke (not the main subject) is inhaled it takes 10-20 seconds for nicotine to be delivered (passive verb) to the central nervous system via the arterial circulation.

Improved Shorter Sentence

Nicotine (main subject) takes 10—20 seconds to reach (active verb, simple language) the brain after inhalation.

Use Active (not passive) Voice

In the active voice the subject names the actor

Example: Passive

 Participants under aged 14, who did not get parental consent, were not recruited.

Improved: Active

• I decided not to recruit participants under age 14 unless they had parental consent.

Characteristics of Good Paragraphs

Paragraph begins with a topic sentence (i.e. the main idea) and the paragraph has:

- **Unity:** Each sentence is on the topic of the paragraph.
- **Coherence:** The relationship between the sentences is clear and logical.
- **Development:** The main idea of the paragraph is well supported with specific evidence, examples and details.
- Length: Paragraphs should be a minimum of 3 sentences

What is wrong with this paragraph?

Women who have an episiotomy more frequently report painful intercourse and marital problems six months after birth. Compared to women who had a 1st or 2nd degree tear, episiotomy is associated with higher rates of perineal trauma in subsequent births. Episiotomy is associated with long-term morbidity. Urinary incontinence is preventable.

Problems:

- Topic sentence is 2nd last
- Last sentence is not related to the topic of the paragraph



Episiotomy is associated with long-term morbidity.

Compared to women who had a 1st or 2nd degree tear, episiotomy is associated with higher rates of perineal trauma in subsequent births. Women who had an episiotomy were more likely to report painful intercourse and ongoing marital problems six months after birth.

Better because:

- Topic sentence first and gives overview
- Supporting sentences give detail and support
- All sentences relate to the topic sentence

Generic Structure of Scientific Paper: AIMRDC

- Abstract
- Introduction
- Methods

- Results
- Discussion
- Conclusion

Title and Keywords

References

- 1. ICMJE (2013) Recommendations for the Conduct, Reporting, Editing, and Publication of Scholarly Work in Medical Journals. Available at: www.icmje.org Accessed September 8th, 2013.
- Cargill, M. O'Connor, P. (2009) Writing Scientific Research Articles: Strategy and Steps. Wiley-Blackburn. West Sussex, UK



- Titles contain key words.
- Some are more important than others.
- Place key words near the start of the title
 makes it easier for reader to determine what paper is about.
- Insert searchable keywords in your title.
- This makes it easier for your work to be found using web-based engine.

Compare - word search

- Interim Technical Report on progress from the ADAPPT project.
- Optimising use of Pesticidal Plants against cattle ticks and maize pests in Africa: ADAPPT Project interim report.

Compare – different titles (journal specific)

- Fat Rats: What Makes Them Eat?
- New Scientist.
- The role of Luteinising Hormone to Obesity in the Zucker Rat
- Journal of Neuroendocrinology
- Rats hold the key to a gorgeous body.
- The Daily Mail.



- opportunity to add words used by indexing and abstracting services.
- They are often but not exclusively additional to those in the title.
- Helps others find your work and cite it.
- All research quality now determined by citation indices.
- How are the citations measured?



- Background (context)
- Purpose (aim or question)
- Methods (participants, setting, data collection and analysis)
- Results (main findings, statistical significance, effect size)
- Discussion/Conclusion (clinical significance, recommendations, limitations)
 - Abstract must accurately reflect the content of the article



Elements of Effective Introductions to Research Articles

Write in a way that takes the reader from general to specific, from the known to the unknown.

- 1. Problem and broad context for present study
- 2. What is already known
- 3. Need for present study made clear
- 4. Purpose/Aim or Question for present study
- 5. Define key terms
- 6. Optional justification for the present study !Cite only directly relevant research. Do not report data or results from present study!



- Purpose: to demonstrate that the methods were scientifically rigorous and thus give confidence that the results of the study are credible.
- In experimental studies call for replicability or reproducibility (?).

Results (Generic)

- Only report results relevant to the hypothesis/question in your Introduction
- GENERIC for all journals

Tell me to forget Show me to remember

- Individual journal dependat
- Data are facts (numbers); they cannot stand alone.
- Most data belong in figures, graphs and tables.
- Statistics belong with data and therefore should (mostly) be in the figures, graphs and tables.
- Present data after stating the results they support.
- Results are the meaning of the data; they must be stated

Results (Generic)

- Emphasize only the most important results in text
- Put supplementary materials in an appendix (online)
- Give numeric results, not just derivatives
- Specify how derivatives were calculated, and their statistical significance
- Restrict tables and figures to those needed to explain the argument
- Use graphs as an alternative to tables; do not duplicate data.

Discussion/Conclusion

- Purpose: "To emphasise the new and important aspects of the study and the conclusions that follow from them in the context of the totality of the best available evidence".
- Briefly summarise the main findings.
- Then explore possible explanations.
- Then compare and contrast your results with results from relevant studies.

Conclusion

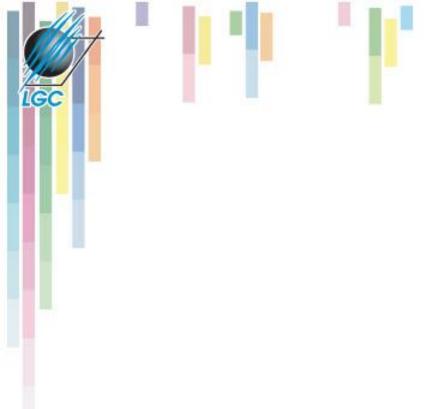
- Link the conclusions to the aim/s of your study.
- Make recommendations (research, practice, theory)₃₀



- Ensure that the formatting of the citations in the text and reference list conform with the style of the journal your article will be sent to.
- This really bugs editors get it right!
- Laziness here could tempt a referee to assume laziness elsewhere in carrying out the work or even collating results.
- Every part of your written work gives an impression of your overall scientific quality.
- Quote your colleagues (Citation Index H) if relevant!

Non native speakers specifics

- Direct English writing vs translation
- Carefully consider the quality!
- Proofreading:
 - Grammar and overall legibility
 - Terminology (content specific)
 - Structure (see all above section)
- Sloppy English vs English style



HOW TO SUBMITT? PRACTICAL PROBLEMS



DISCIPLINES P

PRODUCTS I

RESOURCES ABOUT

Search: keyword, title,

DESCRIPTION

EDITORIAL BOARD

ABSTRACTING / INDEXING

SUBMISSION GUIDELINES

Manuscript Submission Guidelines: Progress in Human Geography

This Journal is a member of the Committee on Publication Ethics.

Please read the guidelines below then visit the Journal's submission site http://mc.manuscriptcentral.com/pihg to upload your manuscript. Please note that manuscripts not conforming to these guidelines may be returned.

Only manuscripts of sufficient quality that meet the aims and scope of Progress in Human Geography will be reviewed.

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As part of the submission process you will be required to warrant that you are submitting your original work, that you have the rights in the work, that you are submitting the work for first publication in the Journal and that it is not being considered for publication elsewhere and has not already been published elsewhere, and that you have obtained and can supply all necessary permissions for the reproduction of any copyright works not owned by you.

- 1. What do we publish?
 - 1.1 Aims & Scope
 - 1.2 Article types
 - 1.3 Writing your paper
- Editorial policies
 - 2.1 Peer review policy
 - 2.2 Authorship
 - 2.3 Acknowledgements
 - 2.4 Funding
 - 2.5 Declaration of conflicting interests
 - 2.6 Research Data

Progress in Human Geography

Plagiarism and tools to avoid it Check the CrossCheck © or Grammarly (GÚ)

landslides are likely to occur in similar conditions of the past (Varnes, 1984). Typically, a range of predictors (i.e., independent 59 ables) is used to represent landslide preparatory conditions (van Westen et al., 2008). The exact relationship of the predictors to the response (i.e., landslide presence/absence) is not always well known a priori. In most cases, the predictors are proxies for conditio 35 nd processes that are difficult to measure across large regions (Pa 5 auri and Pant, 1992; Guzzetti et al., 1999; Goetz et al., 2011). The suscept 5 lity model output is a prediction surface or map that spatially represents the distribution of predicted values, usually 5 probabilities distributed across grid cells.

The freedom of choice to decide which modeling gethod is most suitable for a particular application is challenging. Numerous comparisons of susceptibility modeling methods have been con8 cted; yet no single best method has been identified (Brenning, 2005; Yesilnacar and Topal, 2005; Lee et al., 2007; Yilmaz, 2 9 9, 2010; Yalcin et al., 2011; Goetz et al., 2011; Pradhan, 2013). The search for the optimal susceptibility modeling method is a complicated 5 e and should not only consider model accuracy. Robustness to sampling variation and adequacy to describe processes associated with landslides are also crucial model properties (Frattini et al., 2010).

The simplest approach to select an optimal model for prediction is to compare the error rates stimated from cross-validation, where the modeling method with the lowest error estimate is determined as the best one to use. This assessment on the prediction performance is also viewed as essessment on the prediction performance is also v

techniques can be challenging. A standardized approach for comparing the relative variable importance of different modeling statistical and machine learning techniques for geospatial problems was demonstrated by Brenning et al. (2012b). They assessed variable importance using internal estimates of changes in error rates by randomly permuting predictors in out-of-bag samples (Breiman, 2001; Strobl et al., 2007).

The pare many criteria that can be considered for model selection in the context of landslide susceptibility (Brenning, 2012a). This study focuses on one particular aspect, which is the predictive performance. Therefore, a rigorous ssessment of prediction performance is performed on various statistical and machine learning techniques in an attempt to deternine the 'best' predictive model. The modeling techniques include logistic regression (GLM), generalized additive models (GAM), weights of evidence (WOE), the support vector machine (SVM), random forest classification (RF), and bootstrap aggregated classification trees (bundling) with penalized discriminant analysis (BPLDA). The importance of predictor variables in each model is also analyzed to demonstrate how a standard measure of variable importance can be applied to communicate and compare model behavior, even when a model is considered 'black box'. The main objective of this paper is to demonstrate an approach to make a rigorous comparison of landslide susceptibility models for the purpose of spatial prediction.

2. Materials and methods

2.1 Study area



Originality report and similarity index

	100				
ORIGIN	ALITY REPORT				
	5% RITY INDEX	12% INTERNET SOURCES	23% PUBLICATIONS	1% STUDENT PA	APERS
PRIMAR	Y SOURCES				
1	Focuses	chers' Work from on Machine Lea learning a", Scie ue	rning (Evalua	ting	5%
2	Alexander Brenning, Shilei Long, Paul Fieguth. "Detecting rock glacier flow structures using Gabor filters and IKONOS imagery", Remote Sensing of Environment, 2012 Publication				1%
3	Hamid Reza Pourghasemi, Omid Rahmati. "Prediction of the landslide susceptibility: Which algorithm, which precision?", CATENA, 2018 Publication				1%
4		Motevalli, Hamid Zabihi. "Assessm	•		1%

- What is a bearable level of similarity index?
- What is the level of conformity with particular sources?



- Time consuming (1 year +)
- Reviewer Blind Comments to Author:
 - Please include specific, detailed comments regarding the originality, scientific quality, relevance to the field of this journal, and presentation. Check the need for tables and figures, and the adequacy of the references.
- Acceptance (with minor/major revision, reject...)
- Even negative reviews can help!
- Do not hesitate do re-submit!
- Choose journals with DOI.

Good Writing is Hard Work

- Experienced, well published authors still take weeks and months to write and refine their papers.
- Expect 10-20 drafts to be written before achieving an appropriate quality ☺



- Seznamte se s metodou PRISM pro systematic review.
- Navrhněte a vypracujte touto metodou SR pro vaši dizertační práci.
- Materiály dostuptné v Isu.