

# Petar Zhivkov

Knowledge sharing by a PhD.  
English vers. Feb, 2026

Why am i (still) here?

# Who am i?

- Math kid
- PhD. 1 year ago; Assistant prof.
- Working on 2 EU funded projects
- Like Coding, Love Product Development
- 1x Startup Founder, MIT accelerator part; Forbes 30 U 30
- Champion in Karate and Kickboxing (17 times); Black Belt
- No push, no panic. Be smooth! Smooth is fast!

# How Do We Write Papers?

REVIEW PAPER

Open Access

# Tips and tricks for building a good paper: what editors want



Jon Karlsson<sup>1</sup>, Bruce Reider<sup>2</sup>, Edward M. Wojtys<sup>3</sup> and Stefano Zaffagnini<sup>4\*</sup>

## Abstract

ESSKA is constantly committed to promoting the improvement of scientific quality through the publication of books and the organization of dedicated conferences. In line with this commitment, this interview paper was created with the aim of being useful for all the young scientists and orthopaedics keen in musculoskeletal and sport medicine research. Three Editors from the most important journals in our field were invited to participate: Jon Karlsson from *Knee Surgery Sport Traumatology and Arthroscopy*, Bruce Reider from *The American Journal of Sport Medicine* and Edward Wojtys from *Sports Health*.

## Introduction

The *Journal of Experimental Orthopaedics* is a young and relatively small journal, but one that dreams big. In the last months, I am proud to say, the quality of the published articles has been improving. The group of Editors is hard-working and committed to improving the quality of the papers more and more. However, it is not all because of us; the scientific background of each of us was created after years of commitment and publications in important journals; and I myself have been inspired and learnt from the editors of the most prestigious one. As you know, ESSKA is constantly committed to promoting the improvement of scientific quality through the publication of books [1] and the organization of dedicated conferences to which important personalities are invited. In line

best way to design and report a scientific paper, some others on the current and future directions of the scientific research. It is for sure an honor to discuss with these Editors and have their opinions and answers since their experience is undoubtful and extremely valuable.

Here below you will find the complete interview. Every question was answered independently by the Editors, to give a broader view of the different perspectives.

**1-(SZ): The title of a paper is the first thing to read and its value must not be underestimate; which features attract attention of the editor the most? How can a researcher be sure to have an intriguing title?**

(JC): The title must be short. It should also “catch the

# Successful Scientific Writing and Publishing: A Step-by-Step Approach

John K. Iskander, MD, MPH<sup>1</sup>; Sara Beth Wolicki, MPH, CPH<sup>1,2</sup>; Rebecca T. Leeb, PhD<sup>1</sup>;  
Paul Z. Siegel, MD, MPH<sup>1</sup>

Accessible Version: [www.cdc.gov/pcd/issues/2018/18\\_0085.htm](http://www.cdc.gov/pcd/issues/2018/18_0085.htm)

*Suggested citation for this article:* Iskander JK, Wolicki SB, Leeb RT, Siegel PZ. Successful Scientific Writing and Publishing: A Step-by-Step Approach. *Prev Chronic Dis* 2018;15:180085. DOI: <https://doi.org/10.5888/pcd15.180085>.

## Abstract

Scientific writing and publication are essential to advancing knowledge and practice in public health, but prospective authors face substantial challenges. Authors can overcome barriers, such as lack of understanding about scientific writing and the publishing process, with training and resources. The objective of this article is to provide guidance and practical recommendations to help both inexperienced and experienced authors working in public health settings to more efficiently publish the results of their work in the peer-reviewed literature. We include an overview of basic scientific writing principles, a detailed description of the sections of an original research article, and practical recommendations for selecting a journal and responding to peer review comments. The overall approach and strategies presented are intended to contribute to individual career development while also increasing the external validity of published literature and promoting quality public health science.

## Introduction

Publishing in the peer-reviewed literature is essential to advancing science and its translation to practice in public health (1,2).

vidual level, publishing is associated with professional development and career advancement (6). Publications share new research, results, and methods in a trusted format and advance scientific knowledge and practice (1,7). As more public health professionals are empowered to publish, the science and practice of public health will advance (1).

Unfortunately, prospective authors face barriers to publishing their work, including navigating the process of scientific writing and publishing, which can be time-consuming and cumbersome. Often, public health professionals lack both training opportunities and understanding of the process (8). To address these barriers and encourage public health professionals to publish their findings, the senior author (P.Z.S.) and others developed Successful Scientific Writing (SSW), a course about scientific writing and publishing. Over the past 30 years, this course has been taught to thousands of public health professionals, as well as hundreds of students at multiple graduate schools of public health. An unpublished longitudinal survey of course participants indicated that two-thirds agreed that SSW had helped them to publish a scientific manuscript or have a conference abstract accepted. The course content has been translated into this manuscript. The objective of this article is to provide prospective authors with the tools needed to write original research articles of high quality that have a good chance of being published.

## Basic Recommendations for Scientific Writing

Prospective authors need to know and tailor their writing to the audience. When writing for scientific journals, 4 fundamental re-

# Guidelines for Writing Scientific Papers

***By Petar Zhivkov - synthesized from editorial practice, senior journal editors, and hard-earned experience.***

Influenced by Karlsson J. (2020); Zaman S. et al. (2018);

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## Core Philosophy

**Write for the skeptical reader who wants to be convinced, not impressed.**

Good scientific writing is invisible. Readers should focus on your science, not your prose. When you write Methods, you're teaching. When you write Results, you're showing evidence. When you write Discussion, you're making an argument.

None of that works if your reader can't follow you.

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## The Writing Sequence That Actually Works

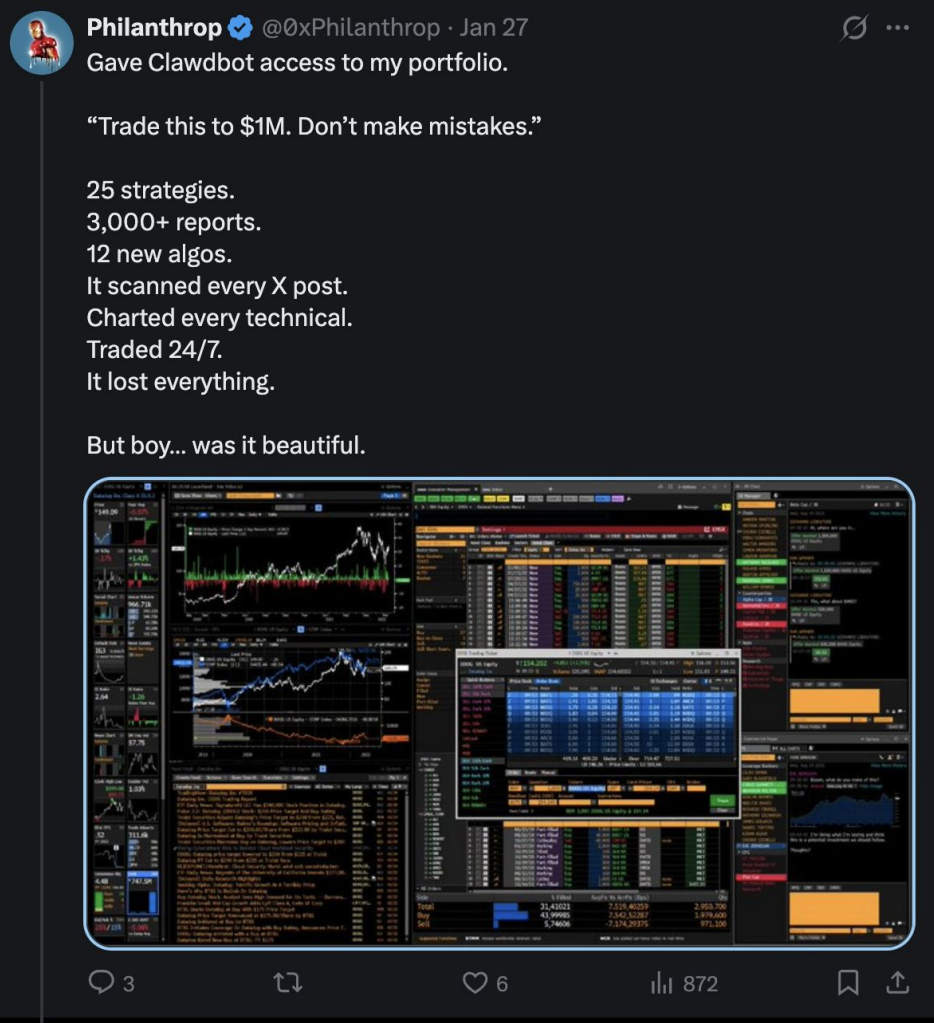
Most guides tell you to start with figures and methods. That's backwards. You can't write a coherent paper without knowing what you're arguing.

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# How Do We Write Papers in the Era of AI?



This Clawdbot user:  
Lost \$1m... But boy...  
was beautiful.



# For AI-Assisted Writing

If you use AI tools to help write your paper:

## AI can help with:

- Clarifying tangled explanations
- Structuring rambling sections
- Expanding sparse methods
- Tightening verbose results
- Formatting and LaTeX

## AI cannot:

- Write better than humans
- Invent your science
- Find citations reliably (it will hallucinate)
- Access paywalled papers
- Assess statistical power
- Judge if your interpretation is scientifically sound
- Know what's actually novel in your field

**Rule:** Bring your data, your thinking, your expertise. AI helps you get it on the page. But the science is yours. **DO NOT OUTSOURCE THINKING TO AI!**

Rich Hickey (2011): Simple vs. Easy.

## Word Origins

- Simple

*sim- plex*

one fold/braid

vs complex

- Easy

*ease < aise < adjacens*

lie near

vs hard

And AI makes it easy... But do not go the Easy path.  
It also allows us to choose the Simple path, harder path.

- NotebookLM?
- Use AI models in IDEs
- Agents
- Agentic flow with subagents
- Size use in context windows



Източници



+ Добавяне на източници



Изпробвайте Deep Research, за да получите задълбочен доклад и нови източници!



Търсете нови източници в



Мрежата

Бързо  
проучване

Избиране на всички източници



Dynamic Fee Markets at Sub-Second T...



Enhancing Liquidity and Stability in De...



Чам



what methodology the author uses in this paper?

In the paper "Enhancing Liquidity and Stability in DeFi," the author Petar Zhivkov employs a methodology centered on **architectural design**, **mathematical modeling**, and **analytical study** to explore USD-collateralized leveraged restaking [1](#) [2](#).

The specific components of the author's methodology include:

- **Literature Review and Gap Analysis:** The author begins by conducting a comprehensive review of existing research on Proof of Stake (PoS) economic aspects, liquid staking derivatives (LSTs), and DeFi lending [3](#). Through this, the author identifies a specific **literature gap**: the lack of research on Liquid Restaking Tokens (LRTs) in money markets and the use of USD-pegged derivatives in restaking [4](#).

- **Formal Architectural Design:** The author creates a formal architecture for a new system of leveraged stablecoin restaking using **Restaked USDT (rsUSDT)** [2](#). This involves defining the roles of various **system participants**, including users, restaking protocols (specifically Symbiotic), and DeFi providers [5](#) [6](#).

- **Analytical Study and Mathematical Formulations:** A central part of the methodology is an analytical study where the author develops mathematical formulas to determine key performance and risk indicators [2](#) [7](#). These include:

- **Leverage Multiplier ( $LevM$ ):** Defining the ratio of total investment to the initial amount

Започнете га пишем...

1 източник





Botio  
bot



• "What's in the Projects subfolder?" (I can list its contents.)

18:51

See the paper crawler. You can run the [main.py](#)

I am a researcher and I am curious what are the top papers of this week

18:53 ✓

```
execs -l /home/pep.openclaw/workspace/Documents/paper_crawler",
"workdir": "/home/pep.openclaw/workspace/Documents/paper_crawler"}
{"command": "python3 /home/pep/.openclaw/workspace/
Documents/paper_crawler/main.py --top --week",
"workdir": "/home/pep/.openclaw/workspace/Documents/
paper_crawler"}{"executed": true}{ "sessionId":
"paper_crawler_20260202"}{"background": true}{ "yieldMs":
5000}
```

I've started the paper crawler in the background. It might take a few minutes to fetch the top papers of the week. I'll let you know as soon as I have the results! 📄🔍

```
(You can check on it anytime by asking, "Any updates on the paper
crawler?"))))))))))))))))))))))))))))))))))))))))))))))))))))
))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))
exec[object Object],[object
Object]ls -l /home/pep/.openclaw/workspace/Documents/paper_crawler",
"workdir": "/home/pep/.openclaw/workspace/Documents/paper_crawler"}
{"command": "python3 /home/pep/.openclaw/workspace/
Documents/paper_crawler/main.py --top --week",
"workdir": "/home/pep/.openclaw/workspace/Documents/
paper_crawler"}{"executed": true}{ "sessionId":
"paper_crawler_20260202"}{"background": true}{ "yieldMs":
5000}
```

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```
(You can check on it anytime by asking, "Any updates on the paper
crawler?"))))))))))))))))))))))))))))))))))))))))))))))))))))
))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))))
```

18:53





Selected top 3 AI papers

*Available Papers*

| # | Cat | Title  | Score | URL   |
|---|-----|--|-------|---|
| 1 | CRY | Origin Lens: A Privacy-First Mobile Framework for Cryptographic Image Provenance and AI Detection                        | 11    | <a href="http://arxiv.org/abs/2602.03423v1">http://arxiv.org/abs/2602.03423v1</a> |
| 2 | CRY | Time Is All It Takes: Spike-Retiming Attacks on Event-Driven Spiking Neural Networks                                     | 8     | <a href="http://arxiv.org/abs/2602.03284v1">http://arxiv.org/abs/2602.03284v1</a> |
| 3 | CRY | Refining Decision Boundaries In Anomaly Detection Using Similarity Search Within the Feature Space                       | 7     | <a href="http://arxiv.org/abs/2602.02925v1">http://arxiv.org/abs/2602.02925v1</a> |
| 4 | AI  | Should I use Synthetic Data for That? An Analysis of the Suitability of Synthetic Data for Data Sharing and Augmentation | 8     | <a href="http://arxiv.org/abs/2602.03791v1">http://arxiv.org/abs/2602.03791v1</a> |
| 5 | AI  | BridgeV2W: Bridging Video Generation Models to Embodied World Models via Embodiment Masks                                | 6     | <a href="http://arxiv.org/abs/2602.03793v1">http://arxiv.org/abs/2602.03793v1</a> |
| 6 | AI  | Inference-time Unlearning Using Conformal Prediction   | 6     | <a href="http://arxiv.org/abs/2602.03787v1">http://arxiv.org/abs/2602.03787v1</a> |

Enter paper numbers to process (e.g., '1,3,5' or 'all')

Select papers [1-6] (all):

So what?



*Liked it?*

*Connect with me:*

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- [www.researchgate.net/profile/Petar-Zhivkov-3/](http://www.researchgate.net/profile/Petar-Zhivkov-3/)
- [www.linkedin.com/in/petarzhivkov/](http://www.linkedin.com/in/petarzhivkov/)