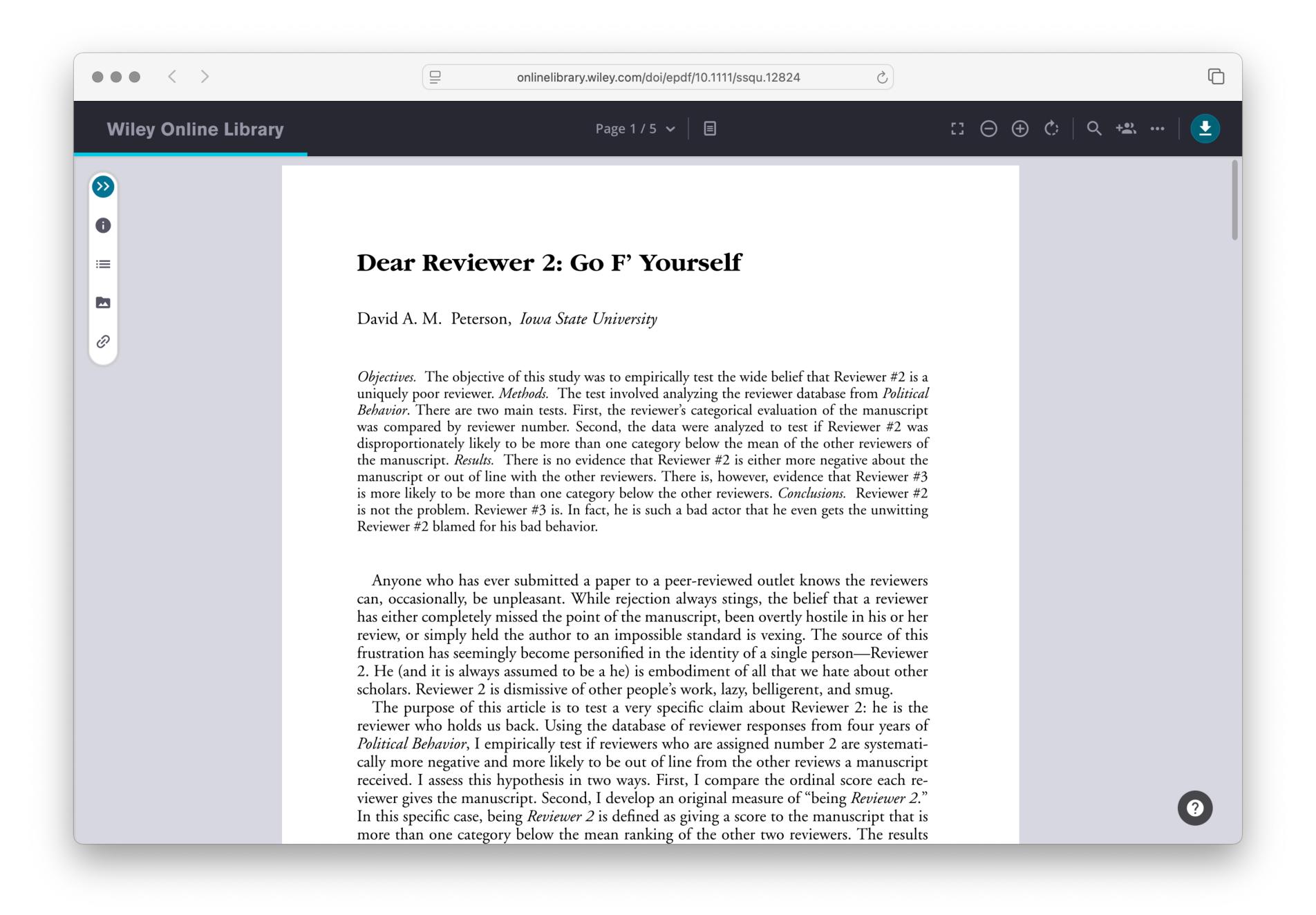
CMPU 366 · Natural Language Processing

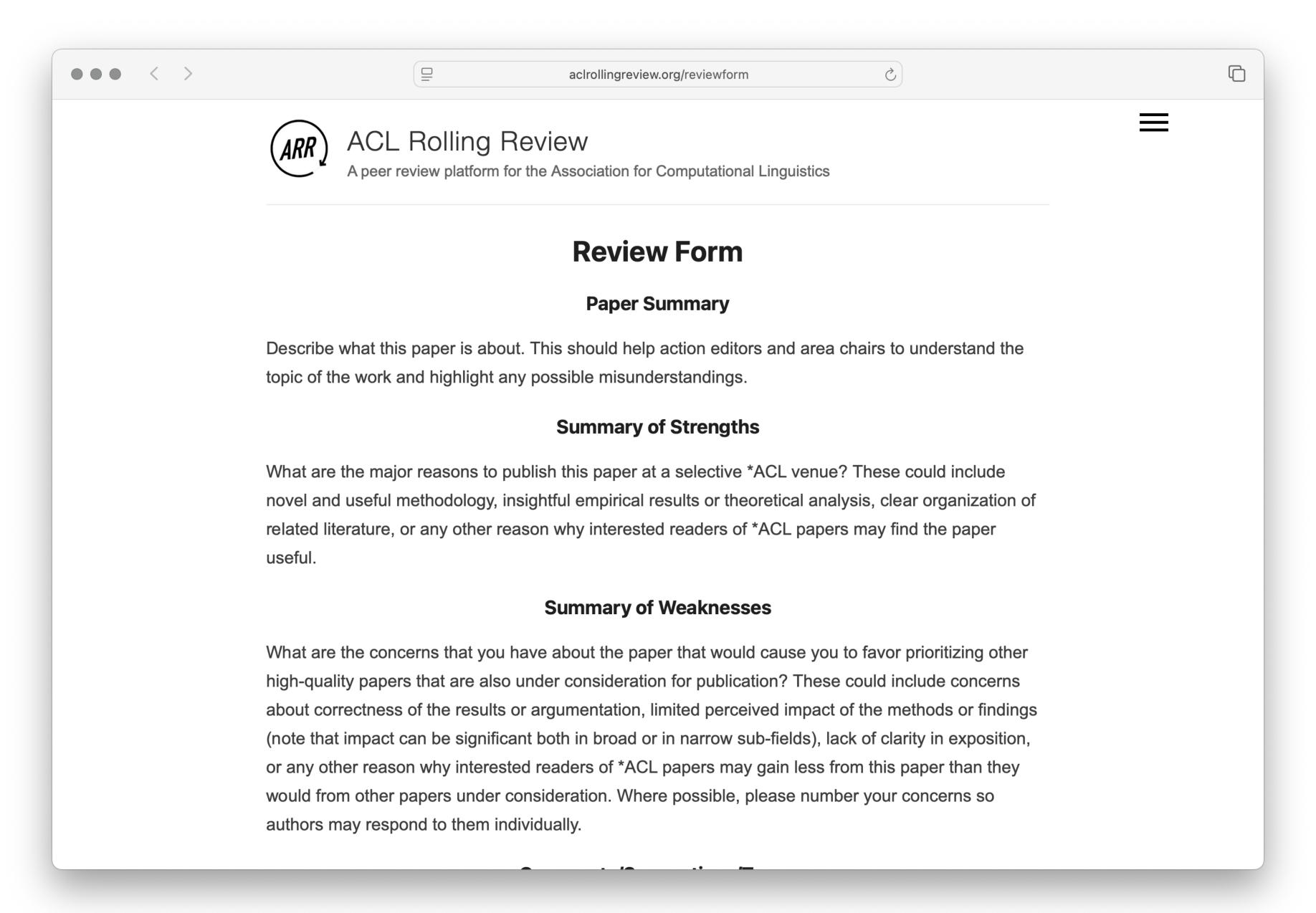
Literature Review

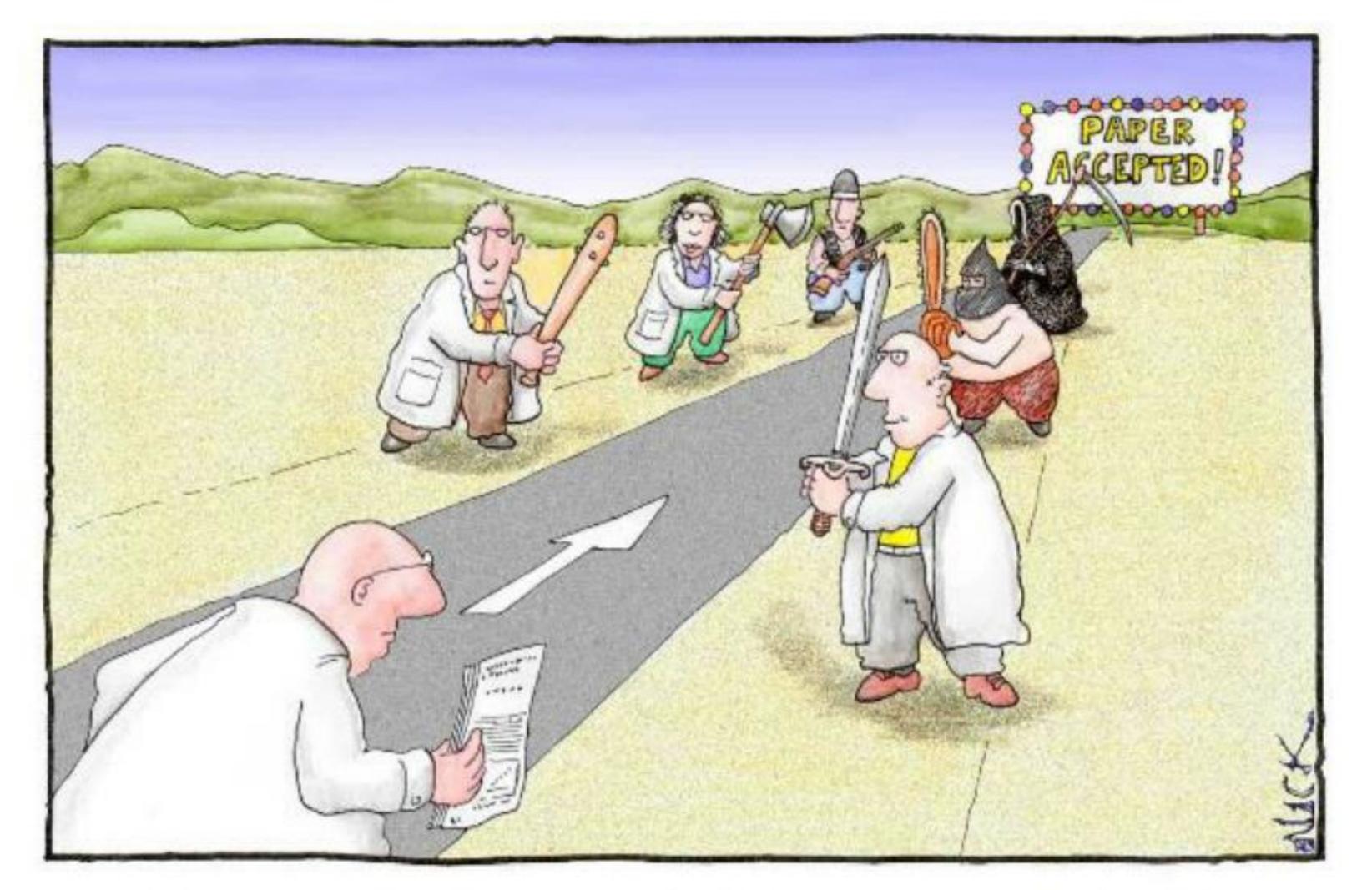
19 November 2025



Peer review







Most scientists regarded the new streamlined peer-review process as 'quite an improvement.'

Writing a good literature review

We write a literature review (or "Related Work" section) to:

Acquaint the reader with the field of study

Establish relevance

Reveal literature gaps

Good literature reviews

Organize paragraphs around ideas

Describe studies in your own voice

Focus on a research question

Contain clear topical sentences

A literature review needs to be clearly organized.

This is a bit like a jig-saw puzzle — when you read papers, you're finding the pieces, and then you need to figure out how they fit together.

If you have trouble finding some pieces, that may suggest that there is an important gap in the literature, which can be a great opportunity!

Common issue: No synthesis!

Do not:

Write each paragraph about an individual study

Try to report all the details from the paper

Rather, you're describing the literature to set the stage for your own work.

Have people looked at this problem?

This data?

What did they try?

How did it work out?

Poor literature reviews contain

Lots of in-depth details about the studies

Too much jargon

Topic sentences that discuss specific authors/studies

References without citations

Very long paragraphs

Peer review exercise

Pair off with someone near you (who isn't in your group).

If you have a print copy of your literature review, give it to the other person.

If you have an electronic copy, share that.

I recommend answering the following questions in a Google Doc, but it's up to you.

Be prepared to share your written responses.

1. Is there a clear organization to the survey? If so, what is it?

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E.g.,
chronological
by problem
by method
etc.
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2. Do you notice obvious gaps in the work described? What are they? Are they explicitly addressed?

E.g., who introduced the problem? What is the best performing system?

3. How are the ideas in the lit. review being connected to the proposed study or research question?

E.g., "While these papers show that topic modeling has been widely applied to problems in the humanities, to the best of our knowledge, no one has applied dimensionality reduction to uncover latent similarities in Lovecraftian horrors."

4. Any other comments? How could this survey be more effective?

Share your answers with the other person.

Acknowledgments

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Ruth Szpunar

