

# Research++

Rob J Hyndman

23 March 2018

# Alternative titles

There's more to being a researcher than writing a thesis

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There's more to being a researcher than writing a thesis

How to win at research without annoying everyone

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There's more to being a researcher than writing a thesis

How to win at research without annoying everyone

What you should know but probably don't

# Alternative titles

There's more to being a researcher than writing a thesis

How to win at research without annoying everyone

What you should know but probably don't

Listen up, young padawans

# Outline

- 1 Writing papers
- 2 Getting published
- 3 Reviewing papers
- 4 What is the point?

# Stay organized

## Paperpile

- Use a reference manager such as Paperpile or Mendeley.
- Your papers should be in *self-contained* git repositories including bib files, Rmd/tex files.
- Be kind to future you. You will have amnesia.
- Document what package versions you used.



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- Your papers should be in *self-contained* git repositories including bib files, Rmd/tex files.
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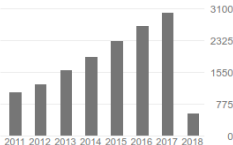
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|  | <b>George Athanasopoulos</b><br>Monash University          | > |
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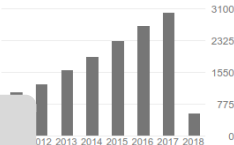
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## Voila: Visual **Anomaly Detection** and Monitoring with **Streaming Spatiotemporal Data**

[N Cao](#), [C Lin](#), [Q Zhu](#), [YR Lin](#), [X Teng](#)... - IEEE transactions on ..., 2018 - [ieeexplore.ieee.org](#)



... **feature** descriptors along multiple facets, with the advantage to examine **features** associated with ... from a traffic tensor; however, like other methods, the produced **feature** matrices and ... **Based** on these system requirements, we developed Voila, an inte- grated system solution for ...

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[N Tatbul](#), [TJ Lee](#), [S Zdonik](#), [J Gottschlich](#) - arXiv preprint arXiv:1803.03639, 2018 - [arxiv.org](#)



... We aim to demonstrate two key **features** of our model: (i) its expressive power for ... Multiple ranged-**based** stochastic **anomalies** appear with inverted negative values ... **Anomaly Detection** Algorithm: We trained a TensorFlow- implemented version of LSTM-AD, a long short-term mem ...

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... (the same **features** as were defined in step 1 of Algorithm 1) from each of these n time series in  $W[t-w:t]$ . This produces an  $n \times m$  **feature** matrix,  $M_{test}$ . 3. Project  $M_{test}$  onto the 2D PC space of  $D_{t0}$  ... Since the test statistic **based** on the integrated ...

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N Tatbul, TJ Lee, S Zdonik, J Gottschlich - arXiv preprint arXiv:1803.03639, 2018 - arxiv.org

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Abstract Demand forecasting is a crucial aspect of the planning process in supply-chain companies. The most common approach to forecasting demand in these companies involves the use of a computerized forecasting system to produce initial forecasts and the ...

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M Lawrence, P Goodwin, M O'Connor... - International Journal of ..., 2006 - Elsevier

Abstract The past 25 years has seen phenomenal growth of interest in judgemental approaches to forecasting and a significant change of attitude on the part of researchers to the role of judgement. While previously judgement was thought to be the enemy of accuracy ...

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- ☐ **Forecasting: principles and practice** [\[PDF\] robjhyndman.com](#)

RJ Hyndman, G Athanasopoulos - 2014 - books.google.com

Forecasting is required in many situations. Stocking an inventory may require forecasts of demand months in advance. Telecommunication routing requires traffic forecasts a few minutes ahead. Whatever the circumstances or time horizons involved, forecasting is an ...

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E Bair, T Hastie, D Paul... - Journal of the American ..., 2006 - amstat.tandfonline.com

In regression problems where the number of predictors greatly exceeds the number of observations, conventional regression techniques may produce unsatisfactory results. We describe a technique called supervised principal components that can be applied to this ...

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# What to cite?

- Cite what is important.
- Cite (only) what is relevant.
- Cite papers from the journal you intend to submit to.
- Avoid lists of gratuitous references.
- Include proper citations for all packages you use.



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- Cite what is important.
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- Include proper citations for all packages you use.

```
citation("packagename")
```



# Sight what you cite

- Every article cited should be sighted, & preferably read.
- At the very least, check that the article cited really does say what you think it says.
- Type the reference information yourself.
- Don't just cite what other people say about citations.
- Store accurate reference info from the start.
- Give credit where it is due.



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- Store accurate reference info from the start.
- Give credit where it is due.
  - Diebold did not invent PITs.
  - Hyndman did not invent exponential smoothing or ARIMA models.



# Names and titles

- Your name is your brand. Choose one and stick to it.



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- Titles should be informative, short and catchy (in that order).

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  - Optimal forecast reconciliation for hierarchical and grouped time series through trace minimization
  - Exploring the sources of uncertainty: why does bagging for time series forecasting work?
  - Do levels of airborne grass pollen influence asthma hospital admissions?
  - Unmasking the Theta method
  - I am not an econometrician

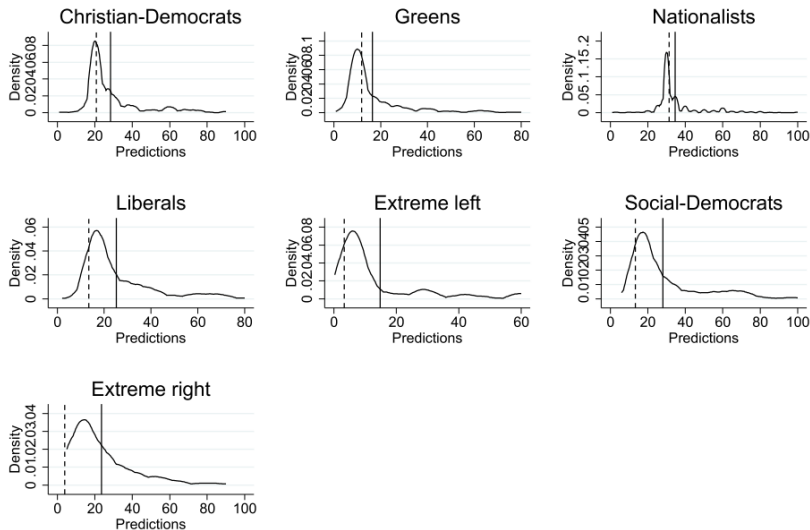
# Names and titles

- Your name is your brand. Choose one and stick to it.
- Titles should be informative, short and catchy (in that order).
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  - Exploring the sources of uncertainty: why does bagging for time series forecasting work?
  - Do levels of airborne grass pollen influence asthma hospital admissions?
  - Unmasking the Theta method
  - I am not an econometrician
- Some journals don't like imaginative titles.

# Some rules for good graphics

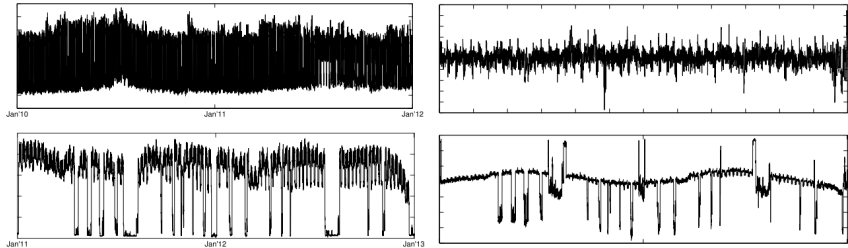
- 1 Design graphics to highlight comparisons you want the reader to make.
- 2 Choose scales to facilitate comparisons.
- 3 Use a sensible aspect ratio. width:height of about 1.6, unless axes are on the same scale.
- 4 Prepare graphics in final aspect ratio. Distorted fonts look awful.
- 5 Use vector graphics such as eps or pdf.
- 6 Clear labels and detailed captions.
- 7 Avoid cluttered legends.
- 8 Specify units.
- 9 Label axes.

# IJF graphics examples



**Fig. 1.** Electoral prediction results.

# IJF graphics examples



**Fig. 2.** Original (top left) and deseasonalized (top right) time series for a non-regime-switching load profile, versus original (bottom left) and deseasonalized (bottom right) time series of a customer with a regime-switching electricity load.

# IJF graphics examples

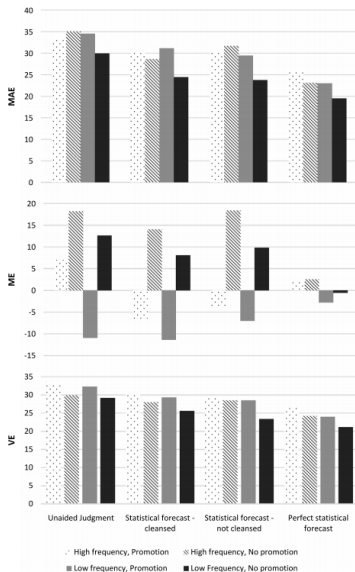
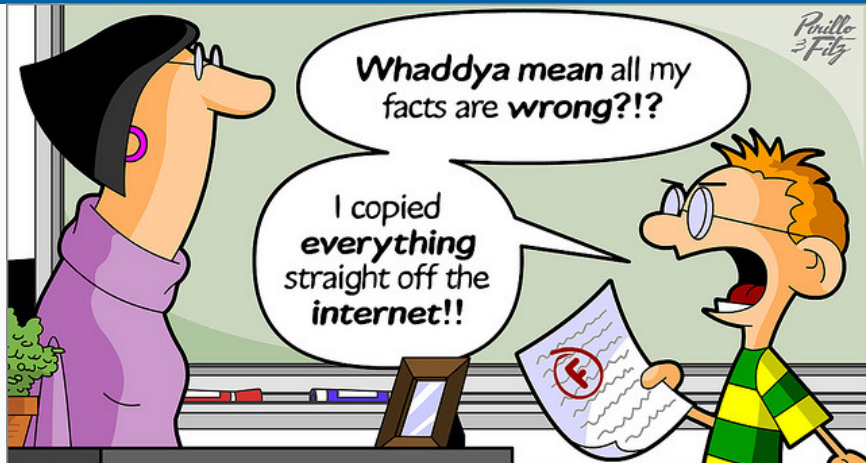


Fig. 4. Error scores associated with the different forecasting conditions studied in the two experiments: MAE (upper panel); ME (central panel); VE (lower panel).

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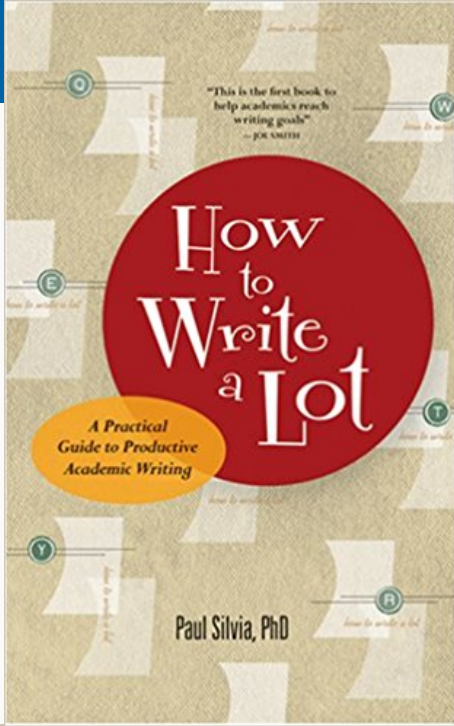


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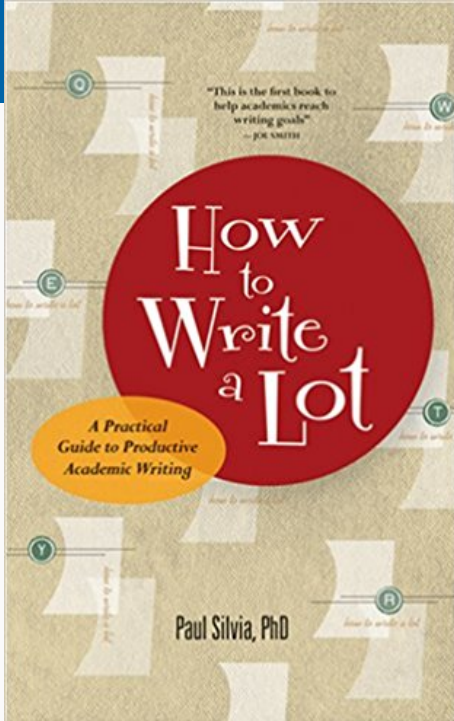
# Excuses

- There's not enough time
- I need to read more articles before I begin
- I need a new computer, a better printer, etc.
- I'm waiting for inspiration



# How to write a lot

- Block out a regular writing time (e.g., 2 hours every morning).
- Write something every day.
- Set a word or paragraph goal for each session.
- Practice makes perfect better.
- Writing clarifies thinking.
- Build on a scaffold.



# Words to avoid

## According to Andrew Gelman

- Note that
- Interestingly
- It is interesting to note that
- Obviously
- It is clear that
- very
- quite
- of course
- Notice that

# Writing an abstract

- 1 What did you do?
- 2 Why did you do it? What question were you trying to answer?
- 3 How did you do it? State your methods.
- 4 What did you learn? State your major results.
- 5 Why does it matter? Point out at least one significant implication.

Original Article

### Visualizing statistical models: Removing the blindfold

#### Abstract

Visualization can help in model building, diagnosis, and in developing an understanding about how a model summarizes data. This paper proposes three strategies for visualizing statistical models: (i) display the model in the data space, (ii) look at all members of a collection, and (iii) explore the process of model fitting, not just the end result. Each strategy is accompanied by examples, including MANOVA, classification algorithms, hierarchical clustering, ensembles of linear models, projection pursuit, self-organizing maps, and neural networks.

# Writing an abstract



International Journal of Forecasting

Volume 23, Issue 2, April–June 2007, Pages 189–203



## Bias in macroeconomic forecasts

Roy Batchelor  

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### Abstract

This paper documents the presence of systematic bias in the real GDP and inflation forecasts of private sector forecasters in the G7 economies in the years 1990–2005. The data come from the monthly Consensus Economics forecasting service, and bias is measured and tested for significance using parametric fixed effect panel regressions and nonparametric tests on accuracy ranks. We examine patterns across countries and forecasters to establish whether the bias reflects the inefficient use of information, or whether it reflects a rational response to financial, reputational and other incentives operating for forecasters. In several G7 countries – Japan, Italy, Germany and France – there is evidence of a change in the trend growth rate. In these circumstances, standard tests for rationality are inappropriate, and a bias towards optimism in the consensus forecast is inevitable as rational forecasters learn about the new trend. In all countries there is evidence that individual forecasters converge on the consensus forecast too slowly. However, the persistent optimism of some forecasters, and the persistent pessimism of others, is not consistent with the predictions of models of “rational bias” that have become popular in the finance and economics literature.

- 1 What did you do?
- 2 Why did you do it?  
What question were you trying to answer?
- 3 How did you do it?  
State your methods.
- 4 What did you learn?  
State your major results.
- 5 Why does it matter?  
Point out at least one significant implication.

# Writing an abstract

- Should be a stand-alone summary. It is the only thing most people will read.
- No references or citations.
- Write in the past tense.
- Be explicit, precise and concise.
- Stick to a single paragraph.
- Restrict background information to a sentence or two at most.
- Make sure that your abstract is consistent with what you reported in the paper.
- Write the abstract last

# Who should be listed as an author?

## Monash authorship policy

... in all cases authorship must be based on making a substantial intellectual contribution to the work described and taking sole or joint responsibility for that contribution or, where appropriate, the work as a whole. Accordingly, authorship must be based upon a substantial contribution and responsibility for at least one, and usually more than one, of the following activities:

- Conception and design of the project;
- Analysis and interpretation of research data;
- Drafting significant parts of the work or critically revising it so as to contribute to the interpretation.



# Who should be listed as an author?

## Unacceptable inclusions of authorship

- Being head of department, holding other positions of authority, or personal friendship with the authors;
- Providing a routine technical contribution;
- Providing routine assistance in some aspects of the project;
- Acquisition of funding;
- General supervision of the research team;
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Acknowledge everyone who helped but is not an author.

# Outline

- 1 Writing papers
- 2 Getting published
- 3 Reviewing papers
- 4 What is the point?

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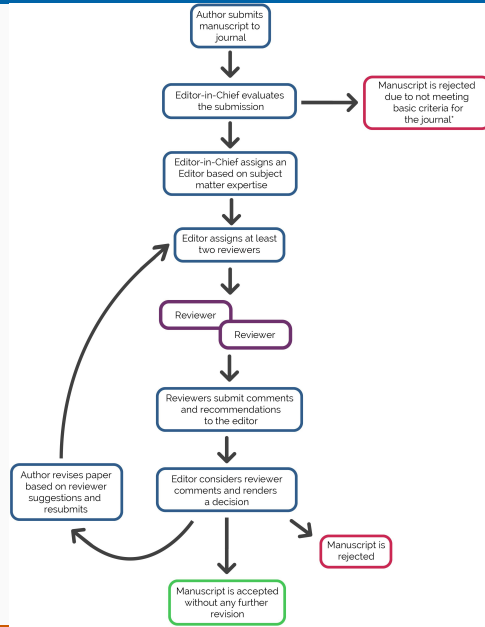
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- Beware of academic phishing!
- Consider journals of papers you cite.
- Check impact factors and journal rankings.
- Aim as high as possible, but be realistic.

# How do journals work?

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Associate Editors  
Reviewers



# How do journals work?

Editor-in-Chief

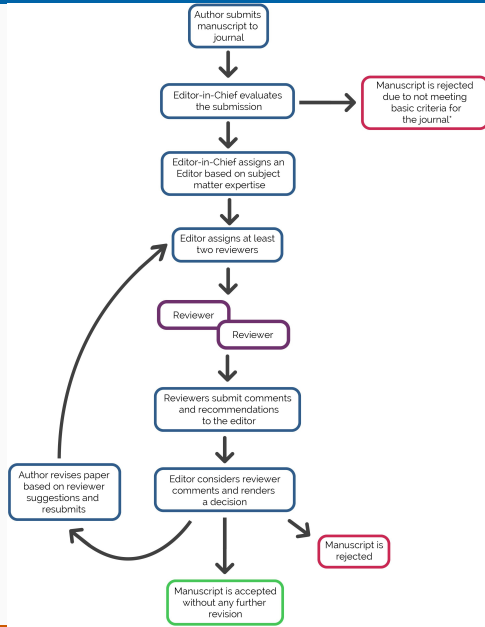
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## Possible outcomes

- 1 Accept
- 2 Revise and resubmit
- 3 Reject and resubmit
- 4 Reject



# Submitting to journals

- Don't be too fussed about journal styles. Most journals are much more lenient than the guide to authors suggests.
- Use biblatex which makes it easy to change bibliographic styles if necessary.
- Don't bother with long cover letters.
- Don't grovel.
- Check the submission when requested.

## An IJF rejection letter

Thank you for this submission, but as it consists entirely of the IJF author guidelines, it is not suitable for publication in the IJF. We publish original research, not author guidelines. Perhaps the *Journal for Guidelines* would be an appropriate outlet.

In future, when you are asked to check the pdf of your paper, you might find it useful to actually do so, rather than just claim to have done so. That way, you will avoid this kind of mistake.



# Common reasons for rejection at the IJF

- Sending it to the wrong journal.
- Poor literature review
- No new ideas
- Limited empirical evaluation
- Outrageous claims

# Dealing with reviewer reports

- Put the reviews aside for a couple of days until you calm down.
- Poor reviews indicate poor editors.
- The best journals have the best reviewers.
- If the reviewers misunderstood your paper, then it is not explained clearly enough.
- Unless you strongly disagree, do what the reviewers have requested.
- Make the changes, even if the paper has been rejected and you are sending it to a new journal.

# Writing responses to reviewer reports

If the journal allows a resubmission, you need to write a response to the reviewers.

## Author responses to Associate Editor comments

1. In Section 2.1: the notion of a reconciliation matrix  $P$  is introduced. This will not be clear to a majority of the readership of JASA. I suggest that a specific example of  $P$ . I would also like to see an expanded discussion of the remark that “ $SPS = S$  is required for unbiased forecasts”. This would be helpful to the general readership. Its not obvious (at least, not to me). It also seems to be important since it was used in page 5 to explain why  $\Sigma_h$  is not identifiable.

We have now included on page 7 examples for two choices of  $P$  which lead to the commonly used bottom-up and top-down approaches and a detailed explanation as to why  $SPS = S$  is required for unbiased reconciled forecasts assuming that the base forecasts are unbiased.

2. On Equation (2) [now (3)]: What conditions do we need about dependence between  $y_1, \dots, y_T$  and  $\varepsilon_h$ ? Is  $\Sigma_h$  the unconditional covariance matrix of  $\varepsilon_h$  or is it the conditional covariance (given  $y_1, \dots, y_T$ )? Of course both will be equivalent under independence between  $\varepsilon_h$  and  $y_1, \dots, y_T$ .

It is assumed that  $\varepsilon_h$  is independent of observations  $y_1, \dots, y_T$ . We explicitly state this now right after equation (3).

3. From the definition of  $W_h$  in Lemma 1, the errors in Equations (5) and (6) have mean 0. How is this expectation computed? Is this conditional on  $y_1, \dots, y_T$ ?

As you have correctly anticipated, in Equations (5) and (6) errors have mean zero as the

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If the journal allows a resubmission, you need to write a response to the reviewers.

- No grovelling
- Cut and paste reviewer comments into response, then add your own comments beneath in a different colour/font.
- Give page/paragraph numbers for all changes.
- Respond to *all* the points with a simple but specific explanation of what you have done.
- If you strongly disagree, you need to persuade the editor (not the reviewer) of your perspective.
- Exception: bad editors sometimes act as rubber stamps for reviewers.
- Keep your response as short as possible. Respect the editor's time.

# Outline

- 1 Writing papers
- 2 Getting published
- 3 Reviewing papers
- 4 What is the point?

# Becoming a reviewer

- 1 Write good articles
- 2 Get them published



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- 1 Write good articles
- 2 Get them published



## Why review?

- You learn a lot.
- You get better known by the research leaders in your area.
- You get to see the latest research before everyone else.
- The scholarly publishing system depends on it.

# Writing a good review

- 1 What is the paper about?
- 2 What is the gap that it is trying to solve?
- 3 How does it address the gap? Do the methods/theory work, check what is promised
- 4 What sort of application is discussed? Is it contemporary, and interesting data problem, or data pulled from another paper, and a bit tired?
- 5 How well does the title/abstract describe the main contributions of the paper?
- 6 Is the introduction readable? If you have trouble understanding the problem from the intro there will be many other readers in the same situation
- 7 Is the solution original? Are there other published papers on the same problem? Have they been cited appropriately? Are they missing major existing work?



# Writing a good review

- 1 Provide a general summary of the paper and its contribution.
  - 2 Describe the major problems that need addressing.
  - 3 List minor corrections required.
- Do not include a recommendation about whether to publish in the report itself.
  - Be the reviewer you would like to have.

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# Why do we do research?

The purpose of academic research is to improve the world. It is a privilege and a special treat to be funded to conduct research.

It is hard to measure what improves the world, so observables are measured as substitutes. But getting too hung up in these metrics is a disservice to society, and publishing for its own sake shouldn't be a goal.