

# Scholarly publishing: a perspective from an early career academic

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# Rethinking research evaluation in early careers

- Research evaluation is downright crucial in academic recruitment.
- However, many fresh PhDs have published only very few papers.
- It can be very difficult to determine the role of PhDs or early postdocs in each paper.

# Data size problems

- A publication is an awkward unit of progress in early career research.
- Some PhD students work on a single paper during their whole PhD, others work on 5.
- Some papers are 3 pages with 20 authors, others are 60 pages with 2 authors.

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EDITORIAL

## Ten Simple Rules for Effective Computational Research

James M. Osborne , Miguel O. Bernabeu, Maria Bruna, Ben Calderhead, Jonathan Cooper, Neil Dalchau, Sara-Jane Dunn, Alexander G. Fletcher, Robin Freeman, Derek Groen, Bernhard Knapp, Greg J. McNerny, Gary R. Mirams, Joe Pitt-Francis, Biswa Sengupta, David W. Wright, Christian A. Yates, David J. Gavaghan, Stephen Emmott, Charlotte Deane [ [view less](#) ]

Published: March 27, 2014 • DOI: [10.1371/journal.pcbi.1003506](https://doi.org/10.1371/journal.pcbi.1003506) • Featured in PLOS Collections

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**Rule 1: Look Before You Leap**

Rule 2: Develop a

**Citation:** Osborne JM, Bernabeu MO, Bruna M, Calderhead B, Cooper J, Dalchau N, et al. (2014) Ten Simple Rules for Effective Computational Research. PLoS Comput Biol 10(3): e1003506. doi:10.1371/journal.pcbi.1003506



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Feature Article

## Chemically Specific Multiscale Modeling of Clay–Polymer Nanocomposites Reveals Intercalation Dynamics, Tactoid Self-Assembly and Emergent Materials Properties

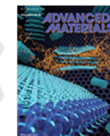
James L. Suter, Derek Groen, Peter V. Coveney 

First published: 9 December 2014 [Full publication history](#)

DOI: [10.1002/adma.201403361](https://doi.org/10.1002/adma.201403361) [View/save citation](#)

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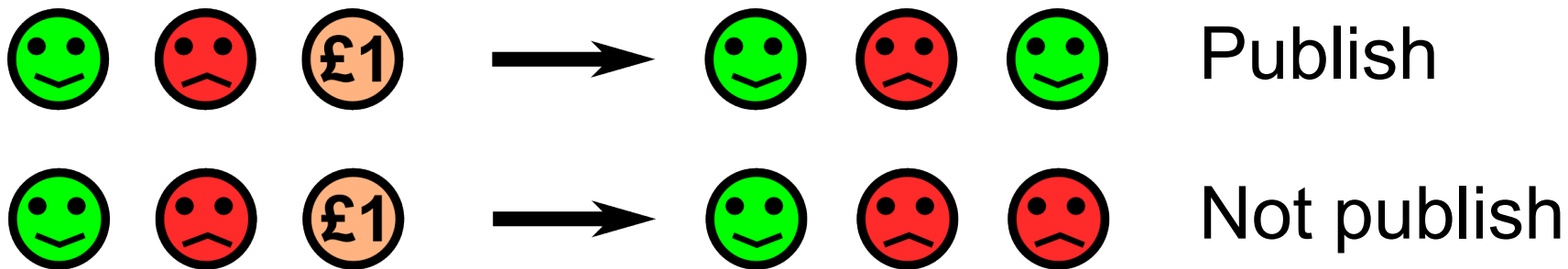
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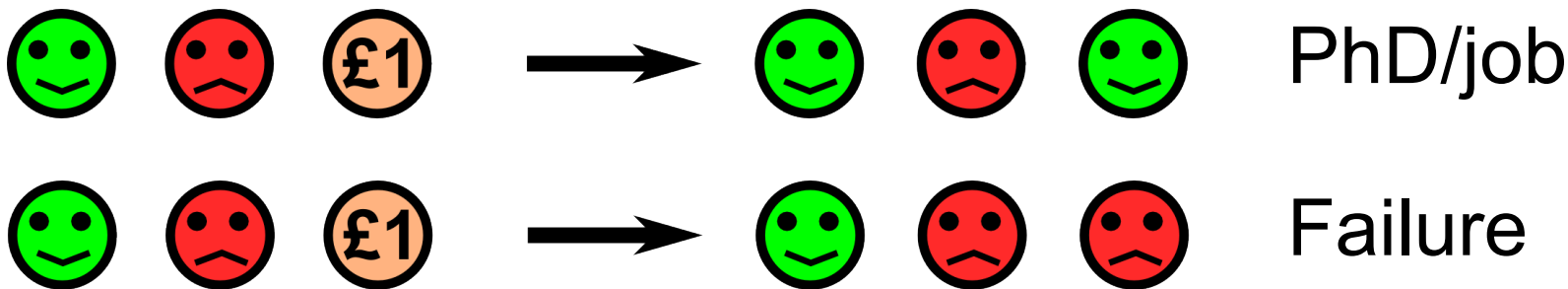
# Data size problems

- And reviewing is noisy.



# Data size problems

- Combined with having a small number of research products it tends to gravitate towards.



# Solutions?

- Assign more reviewers... → costly.
- Promote a wider range of smaller research products:
  - data sets
  - software
  - interpretations
  - technical documents
  - experience reports
- Also makes it easier to isolate small parts of obsoleted/disproven research.
  
- They exist in the publishing world, but it becomes truly helpful once the universities include them in their PhD/job review processes.

# One last thought: further annotated reference lists?

[1] John Doe et al., 2015.



Up-to-date paper.

[2] Jane Doe et al., 1998.



Paper has been superseded by a newer version from the authors.

[3] Jane Doe et al., 2015.



Paper has been amended after publication of this one.

[4] John D'oh et al., 2011.



Results have been disproven by other authors.

[5] Homer Simpson et al., 2008.



Paper has been withdrawn.

Thank you!

