

Open is different

Adam Day

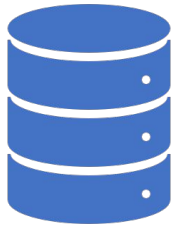
medium.com/@clearskiesadam,
[twitter.com/@clearskiesadam](https://twitter.com/clearskiesadam),
linkedin.com/in/adam-day-45529a17

Adam Day

- Data scientist & former physics journal editor
 - Mostly Green OA!
- Open Source Sage Rejected Article Tracker.
 - Surprisingly useful for detecting duplicate submissions.
 - <https://joss.theoj.org/papers/10.21105/joss.03348>
- Paper on detecting peer-review rings.
 - <https://arxiv.org/abs/2202.03310>
- Founder of Clear Skies.
 - A number of detection pipelines for papermill-products.



3 things



Open metadata



Open tools



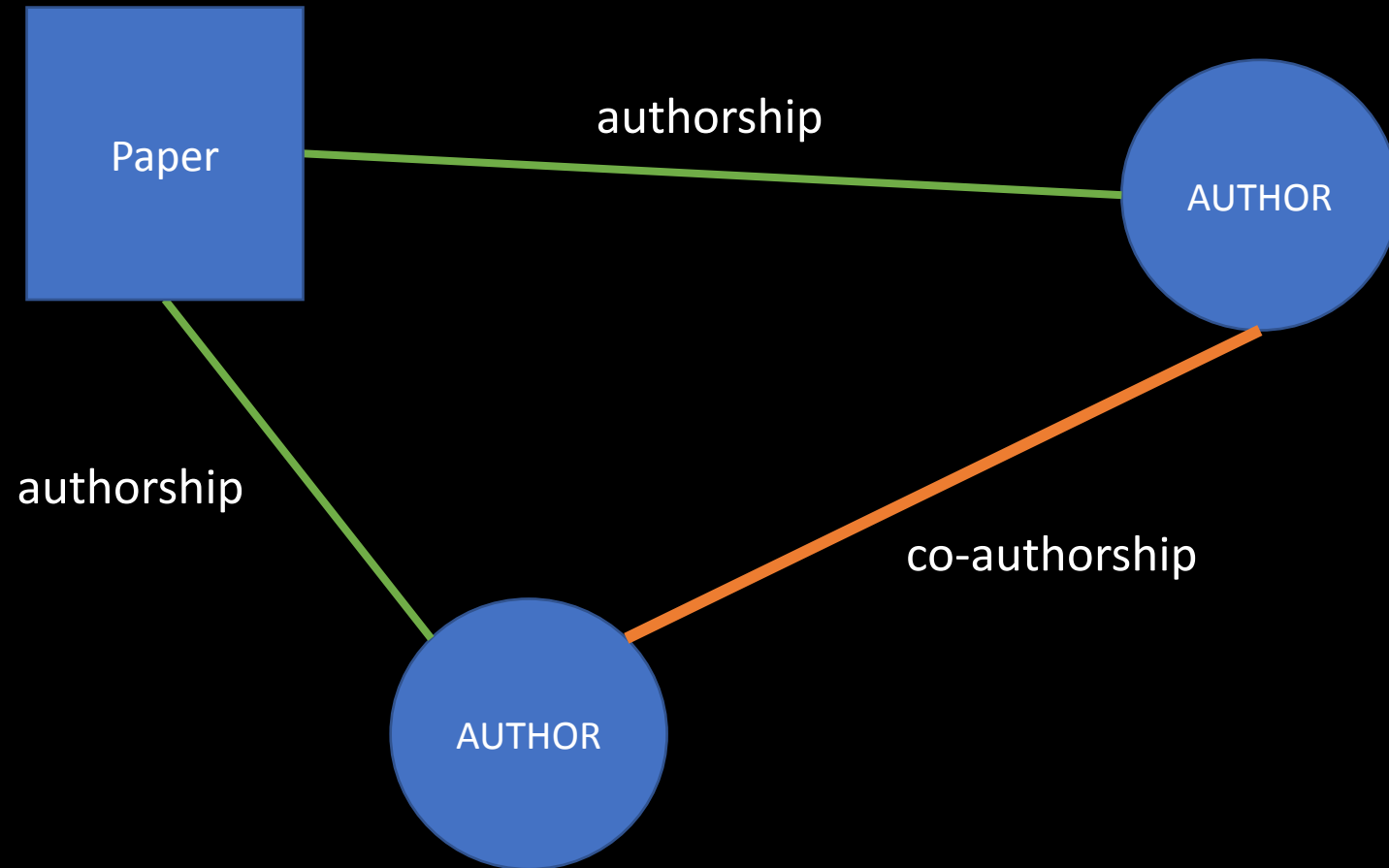
Open is different: good
and bad things



“given enough eyeballs, all bugs are shallow” – Eric S Raymond

Open metadata

Graph analytics



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ORCID

AUTHOR

KYC/KYA – Know Your Author!



Crossref

DODGY
BEHAVIOUR



OpenAlex



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Who is more likely to be the fraudster?



Long history

- Well-maintained ORCID
- Dozens of papers
- Loads of peer-reviews
- Board memberships
- Guest editorships



No history!

- Empty ORCID
- New webmail address

But what if it's both? ... Who would be easier to catch?

ORCID

AUTHOR



Crossref

DODGY
BEHAVIOUR



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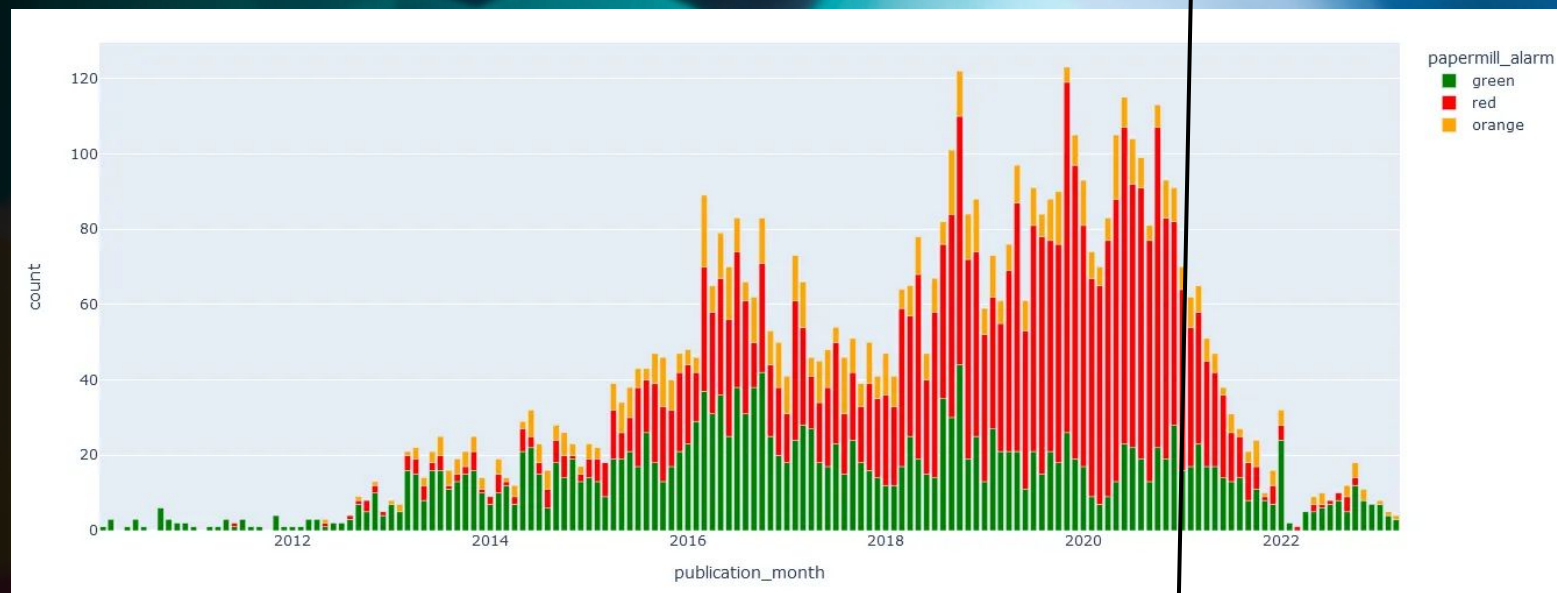
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How to find all the papermills

Make sure that your
Crossmark data
includes the
submission date!



The Papermill Alarm



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twitter.com/@clearskiesadam,
linkedin.com/in/adam-day-45529a17



Open methods

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linkedin.com/in/adam-day-45529a17

Duplication in peer-review

- When to share?
 - Should we share methods so that others can use them to find misconduct?
 - Or does doing so make it more likely that bad actors will learn how to work around those methods?
- Key thing:
 - Sharing helped other publishers to identify this problem and deal with it.



In summary

- Open is different!
- Open science practices create the basis for better research integrity, particularly
 - Many eyes
 - Open metadata
- But there's a balance when it comes to methods.
 - Transparency is an important ethical principle,
 - some methods can be open,
 - but others should not be shared widely.