

# RESEARCHERS.ONE — A new system for author-driven peer review<sup>123</sup>

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<sup>1</sup>This is a joint effort with Harry Crane at Rutgers

<sup>2</sup>Soon will be available at `www.researchers.one`

<sup>3</sup>Follow us at `www.twitter.com/@ResearchersOne`

- Peer review plays an important role in science, aimed to improve quality of research
- However, in this “publish or perish” environment, the *accept/reject decisions* give journals too much authority
- Larry Wasserman<sup>4</sup> compares system to a “priesthood or guild”
- Consequences:
  - incentivizes incremental work
  - effectively censors new ideas
- End result is actually lower-quality research
- Cause: *accept/reject decisions*

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<sup>4</sup><http://www.stat.cmu.edu/~larry/Peer-Review.pdf>

- A better system would provide the benefits of peer review, but let authors keep their authority and autonomy
- How?
- Give the authors control over the peer review process
  - select their own reviewers (several ways)
  - choose what feedback to incorporate
  - decide what and when to publish
- Our new perspective requires a new platform
- Hence RESEARCHERS.ONE<sup>5</sup> was born

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<sup>5</sup>Will soon be accessible at [www.researchers.one](http://www.researchers.one)

- RESEARCHERS.ONE mission
- New technology
- Live demo
- Conclusion

- Present system is unsuccessful because the author is at the mercy of the reviewers — “publish or perish”
- Since the work is the author’s, our goal is to put more control (and responsibility) in the author’s hands
- What do authors need?
  - *Autonomy* to pursue interests/passions
  - *Authority* to be the judge of their work’s quality
  - *Access* to the work and feedback of experts
- Our mission is to provide these “3As” to authors
- Of course, this is not just for statistics!

# RESEARCHERS.ONE

AUTONOMY

AUTHORITY

ACCESS

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RESEARCHERS.ONE empowers researchers with the **Autonomy** to pursue their passions, **Authority** to improve and disseminate their work and **Access** to engage with the international community of scholars.

- A new peer review model requires a new implementation
- Specifically, new features are required to give authors control
  - authors pick reviewers (one of two ways)
  - authors get reviewer feedback, incorporate as they please in a revision, and repeat (as often as necessary)
  - authors decide when paper is published
- Similar to the current peer review feedback, except that it is entirely in the authors' rather than editorial board's hands
- Individual steps aren't new — the technological challenge was to bring these in the author's control

# Two peer review options

- RESEARCHERS.ONE offers two peer review options
  - *private/traditional peer review*
  - *public peer review*
- The first is similar to the current system
  - author identifies and contacts reviewers
  - paper is only made available to selected reviewers
  - reviewers provide feedback, author revises, etc
- The second is more modern
  - paper is made available to the public
  - any registered user can provide feedback, author revises, etc
  - in line with recent pushes toward open and post-publication peer review

## *TO THE WEB!!*

- System layout: viewing articles, comments, etc
- Two peer review options
- User-recommended content
- ...

- Every paper is a discussion paper
- User-recommended content acts like individual overlay journal
- 100% open access — both for readers and authors
- Those concerned about reproducibility have been pushing for study pre-registration, easily handled in our system
- Moves focus away from the reputation of a journal or a researcher, to the quality of the work

# Why this might work

- There are lots of reason why this might fail:
  - “we need standard journals to judge tenure cases”
  - “without journals we won’t know what to read”
  - ...
- Only a reflection of how dependent we are on the “guild”
- But there are also reasons why it might work
- My experience is that (almost) everyone in academia is frustrated with the current system:
  - very little correlation between the the quality/importance of a paper and the journal it appears in
  - lots of time wasted on submissions, revisions, etc
- Right time for a new idea?
- Better for researchers to spend time/energy on what really matters — the research!

- Our goal is to develop a system that can deliver the “3As”
  - Autonomy
  - Authority
  - Access
- RESEARCHERS.ONE is the first attempt at a system where the authors completely control the peer review process
- New technology is needed to bring this vision to life and what we've been able to implement is probably not ideal
- We very much welcome new ideas moving forward
- Follow us: [www.twitter.com/@ResearchersOne](http://www.twitter.com/@ResearchersOne)

*Thanks!*

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