



## SOFTWARE TOOL ARTICLE

# PRN: a preprint service for catalyzing R-fMRI and neuroscience related studies [v1; ref status: indexed, <http://f1000r.es/4ws>]

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## Abstract

Sharing drafts of scientific manuscripts on preprint hosting services for early exposure and pre-publication feedback is a well-accepted practice in fields such as physics, astronomy, or mathematics. The field of neuroscience, however, has yet to adopt the preprint model. A reason for this reluctance might partly be the lack of central preprint services for the field of neuroscience. To address this issue, we announce the launch of Preprints of the R-fMRI Network (PRN), a community funded preprint hosting service. PRN provides free-submission and free hosting of manuscripts for resting state functional magnetic resonance imaging (R-fMRI) and neuroscience related studies. Submissions will be peer viewed and receive feedback from readers and a panel of invited consultants of the R-fMRI Network. All manuscripts and feedback will be freely available online with citable permanent URL for open-access. The goal of PRN is to supplement the "peer reviewed" journal publication system – by more rapidly communicating the latest research achievements throughout the world. We hope PRN will help the field to embrace the preprint model and thus further accelerate R-fMRI and neuroscience related studies, eventually enhancing human mental health.

## Open Peer Review

Referee Status:

	Invited Referees		
	1	2	3
version 1 published 22 Dec 2014	 report	 report	 report

- 1 Ze Wang, University of Pennsylvania USA
- 2 Wei Gao, University of North Carolina USA
- 3 Krzysztof Gorgolewski, Stanford University USA

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## Introduction

Before submitting manuscripts to traditional journals for peer review and publication, researchers in some fields routinely distribute the manuscripts as preprints within their field. In this way, they receive early feedback, which may help in preparing articles for definitive submission as well as rapidly propagating novel ideas to their fields. The well-known central repository for preprints, arXiv (<http://arXiv.org>), was founded in 1991 by Dr. Paul Ginsparg for the field of physics. It gradually expanded to include astronomy, mathematics, computer science, nonlinear science, quantitative biology, and statistics as scientists in these fields began to embrace preprints (Ginsparg, 2011). arXiv now hosts close to one million fulltext preprints (983,739 as of November 1, 2014). Registered users of arXiv can submit manuscripts (multiple versions are allowed) and all users can freely browse, view and cite any articles. Although arXiv lacks rating systems or a feedback mechanism to let users recommend papers of interest to peers or to provide feedback to authors, it is still an invaluable resource for the fields it serves.

However, researchers' attitude toward preprints, varies depending on the field. The field of neuroscience has yet to adopt the practice of releasing preprints. Instead, neuroscientists commonly circulate their manuscripts to collaborators and colleagues for feedback before submission, but distribution is private and limited to small groups. The reason for such limited sharing might partly be the lack of central preprint services for the field. Only in 2013 did two preprint services dedicated to biology emerge for the field of life science (Callaway, 2013; Van Noorden, 2012). The two preprint services, PeerJ Preprints (<https://peerj.com/preprints/>) started by PeerJ, Inc. and bioRxiv (<http://biorxiv.org>) launched by Cold Spring Harbor Laboratory, are providing preprint hosting services with online feedback and comment systems. It is expected that early feedback will be helpful for authors in revising and improving their articles for later peer review process of traditional journals. Furthermore, commenters can be acknowledged for their contributions in later publication. However, it is only the dawn of neuroscience preprints -- bioRxiv and PeerJ Preprints have only received

56 and 38 neuroscience papers, respectively (as of 11/1/2014, see Table 1). More efforts to facilitate adoption of the preprint model appear to be needed.

A subfield of neuroscience, neuroimaging, especially that which focuses on resting-state functional magnetic resonance imaging (R-fMRI), has emerged as field which is embracing innovations such as open data sharing (e.g., ADHD-200-Consortium, 2012; Biswal *et al.*, 2010; Di Martino *et al.*, 2014; Hall *et al.*, 2012; Mennes *et al.*, 2013; Milham, 2012; Mueller *et al.*, 2005; Satterthwaite *et al.*, 2014; Van Essen *et al.*, 2013; Zuo *et al.*, 2014), open software sharing (e.g., Bellec *et al.*, 2012; Rubinov & Sporns, 2010; Sikka *et al.*, 2014; Song *et al.*, 2011; Taylor & Saad, 2013; Whitfield-Gabrieli & Nieto-Castanon, 2012; Xia *et al.*, 2013; Chao-Gan & Yu-Feng, 2010; Zang *et al.*, 2012; Zuo & Xing, 2014) and sharing of learning resources (e.g., Training Course in fMRI (<http://sitemaker.umich.edu/fmri.training.course>) and The R-fMRI Course (<http://rfmri.org/Course>)). As a method to investigate ongoing brain activity in basic, translational and clinical neuroscience studies, R-fMRI has become an increasingly prevalent research area especially in recent years (Fornito & Bullmore, 2012; Fox & Raichle, 2007; Kelly *et al.*, 2012; Van Dijk *et al.*, 2010) considering its sensitivity to characterize developmental, aging and pathological features (Andrews-Hanna *et al.*, 2007; Fair *et al.*, 2008; Greicius, 2008; Zuo *et al.*, 2010), subject-friendly data collection procedures in clinical samples, and high comparability and consistency across studies and sites (ADHD-200-Consortium, 2012; Biswal *et al.*, 2010; Mennes *et al.*, 2013; Tomasi & Volkow, 2012). This field has expanded exponentially, now exceeding more than 1000 studies published per year (Figure 1). Given the emerging traditions of openness in this field, and an increasing number of researchers involved, we believe that the field can benefit from a preprint service that provides peer viewing and commenting.

Accordingly, we are announcing a preprint publication model for catalyzing R-fMRI and related neuroscience studies. We have designed PRN as a community funded, open-access, free-submission, "peer viewed," preprint service. The goal of PRN is to

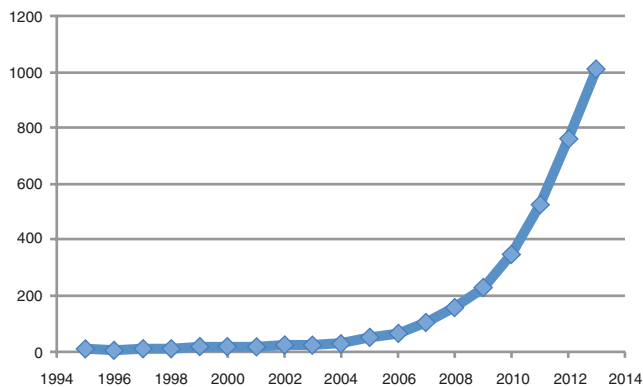
**Table 1. Overview of neuroscience related preprint manuscripts on online preprint services (as of 11/1/2014).**

Name	SCOPE	Initial	Link	Fulltext hosted	Neuroscience related	fMRI related
arXiv	Mathematics, physics, astronomy, computer science, quantitative biology, statistics, and quantitative finance.	August 14, 1991	arXiv.org	984,747	475*	142***
BioRxiv	All aspects of research in the life sciences but does not accept clinical studies or clinical trials.	November 11, 2013	biorxiv.org	825	56**	6***
PeerJ PrePrints	Biological Sciences, Medical Sciences, and Health Sciences	April 3, 2013	peerj.com/preprints	581	38**	5***

\*: Number of articles returned by searching the key word "neuroscience" on arxiv.org.

\*\* : Number of articles in the neuroscience sub-category of the corresponding websites.

\*\*\*: Number of articles returned by searching the key word "fMRI" on corresponding websites.



**Figure 1. Number of R-fMRI related studies in PubMed (key words: “resting+state+fmri”).**

supplement the “peer reviewed” journal publication system by supporting more rapid communication of the latest research observations throughout the world.

### Implementation

We have implemented the PRN service based on the success of The R-fMRI Network (RFMRI.ORG). The R-fMRI Network (RFMRI.ORG) has been designed as a framework to support R-fMRI studies. The R-fMRI Network comprises R-fMRI researchers (the nodes) who are connected by sharing (the edges) with each other. Through the network, imagers can efficiently share ideas, comments, resources, tools, experiences, data, and increasing knowledge of the brain. Researchers (nodes) with basic neuroscience, methodological, or clinical backgrounds can connect with each other in the network. The R-fMRI Network currently has more than 5000 registered members, aiming to enhance collaborations among researchers, especially to translate our knowledge of basic neuroscience and methodology to clinical applications (bench to bedside).

The R-fMRI Network (RFMRI.ORG) is designed with a forum system and an integrated mailing list based on drupal (<http://drupal.org>) and mailman (<http://www.gnu.org/software/mailman/>). As an online forum system, The R-fMRI Network allows researchers to propose research ideas, discuss controversial issues, request help in using software, share experiences, report preliminary results, initiate collaborations and even seek jobs. The R-fMRI Network hosts several instances of R-fMRI software (e.g., DPABI, DPARSF and GraphVar), online learning resources, open data links, and gathers the latest R-fMRI related studies from PubMed. All new posts are sent to all R-fMRI Network registered users via an integrated mailing list, and users can comment on any post by directly replying to the mailing list.

The PRN has been built based on the existing infrastructure of RFMRI.ORG. Submission of a manuscript is as easy as posting a forum post with the paper title as the post title, manuscript title page and abstract as the post content and a PDF version of the fulltext manuscript as an attachment of the post. The preprint manuscript will have a permanent online URL with a convenient

commenting system as in the forum system, and with mailing list immediate notification to all registered users. Furthermore, PRN has been empowered with the following features.

### Features

#### Preprint

All submissions to PRN are preprint submissions, thus authors can freely revise and submit unrevised or revised manuscripts to formal “peer reviewed” traditional journals which allow preprints. PRN only checks the format of manuscripts, and contacts the corresponding author to confirm his/her approval of submission. As a preprint service, PRN has no peer review process and no editing service.

#### Open-access

All PRN articles are freely available online after submission. Readers can freely read, download and comment on articles. Like other posts at the R-fMRI Network, all submissions are dated, citable with a permanent URL and indexed by Google. Furthermore, each PRN submission has a unique URL with a time stamp such as [http://rfmri.org/PRN\\_140828001](http://rfmri.org/PRN_140828001).

The PRN does not ask the copyright of the work to be transferred, however, the PRN requires sufficient rights to distribute submitted articles in perpetuity as documented at [http://rfmri.org/PRN\\_140831001](http://rfmri.org/PRN_140831001). In general, the authors should grant the PRN a non-exclusive and irrevocable license to distribute the article, or certify the work is either under Creative Commons Attribution license, or the Creative Commons Attribution-Noncommercial-ShareAlike license.

#### Free-submission

Unlike other open-access journals, submission to PRN is free of charge.

#### “Peer viewed”

Articles at PRN will be peer viewed by interested readers and also by consultants. The PRN has enrolled a panel of consultants – each obligated to comment on three PRN papers per six-month period. On a monthly basis, PRN will rate “consultants’ choice” and “readers’ choice” articles. Furthermore, PRN will rate the most active articles, i.e., those which elicited the most comments and revisions – as a way to spur feedback and revision of articles.

#### Community funded

The PRN is a community funded effort. We encourage all researchers to make a small contribution at <http://rfmri.org/HelpUs> to help the PRN effort, but this is completely voluntary.

#### Compatibility with traditional formal journals

A major concern is that traditional formal journals may refuse to publish manuscripts which were previously made available online on a preprint server. To address this concern, a cross-field discussion on preprints has been initiated with editors-in-chief of journals in neuroscience, physics and mathematics. An editor-in-chief in physics responded that arXiv is invaluable for doing research in physics, and is scanned by most physicists every day. Several

editors-in-chief of Neuroscience journals have confirmed that their journals do accept preprint manuscripts. Based on the information of Sherpa-Romeo (<http://www.sherpa.ac.uk/romeo>), we have organized a table of PRN compatible journals ([http://rfmri.org/PRN\\_20140921001](http://rfmri.org/PRN_20140921001)). The authors should pay a close attention to the table ([http://rfmri.org/PRN\\_20140921001](http://rfmri.org/PRN_20140921001)) before submitting preprint manuscripts to PRN, to avoid jeopardizing their subsequent submission to PRN-incompatible journals.

## Conclusions

We have launched PRN as a preprint service for catalyzing R-fMRI and related neuroscience studies. By empowering this preprint system with an online commenting system and mailing list notification system to promote the newest studies to the R-fMRI community, as well as inviting R-fMRI experts as consultants to comment on preprint manuscripts, we hope PRN will help the field embrace the preprint model and thus accelerate R-fMRI and neuroscience related studies, eventually enhancing human mental health.

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# Open Peer Review

Current Referee Status:



Version 1

Referee Report 18 March 2015

doi:10.5256/f1000research.6364.r7782



**Krzysztof Gorgolewski**

Department of Psychology, Stanford University, Stanford, CA, USA

I wholeheartedly support novel approaches to publishing, especially those run by scientists for scientists and free of commercial interests. Even though I believe a news article would be a better place for PRN to advertise itself, I am happy to review this paper as a "Software Tool Article". I believe addressing the following issues will make the manuscript better:

1. Discussion of "peer review" is very confusing. Putting the term in inverted quotes does not improve readers understanding. In one paragraph you write "As a preprint service, PRN has no peer review process and no editing service." just to follow by "Articles at PRN will be peer viewed by interested readers and also by consultants."
2. There is a lot of future tense used in the paper. This combined with no signs or examples of the platform being used gives the impression that you are describing features you plan to implement rather than existing and mature software solution.
3. It would be good to show how does this service compare to using other existing preprint servers combined with peer review platforms such as Publons or PubPeer.
4. Could anyone review a preprint using your platform?
5. Will the review be public and signed or anonymous?
6. Are the preprints indexed by Google Scholar (in contrast to just Google Web)?
7. I could not find a link to the code of your platform (this is a formal *F1000Research* requirement).

**I have read this submission. I believe that I have an appropriate level of expertise to confirm that it is of an acceptable scientific standard, however I have significant reservations, as outlined above.**

**Competing Interests:** No competing interests were disclosed.

Referee Report 09 March 2015

doi:10.5256/f1000research.6364.r7780



**Wei Gao**

Biomedical Research Imaging Center, University of North Carolina, Chapel Hill, NC, USA

Well done for this initiative! Glad to see this is happening for the community of resting state fMRI.

**I have read this submission. I believe that I have an appropriate level of expertise to confirm that it is of an acceptable scientific standard.**

**Competing Interests:** No competing interests were disclosed.

Referee Report 07 January 2015

**doi:**[10.5256/f1000research.6364.r7125](https://doi.org/10.5256/f1000research.6364.r7125)**Ze Wang**

Department of Psychiatry, University of Pennsylvania, Philadelphia, PA, USA

I found it is a great idea to have this kind of service for neuroimaging. One comment that can improve the acceptability of this preprint service is: should the service require authors to notice the normal journals that this manuscript has been archived in PRN? And should PRN share the review comments for the accepted preprints with the standard journals?

**I have read this submission. I believe that I have an appropriate level of expertise to confirm that it is of an acceptable scientific standard, however I have significant reservations, as outlined above.**

**Competing Interests:** No competing interests were disclosed.

Author Response 14 Jan 2015

**Chaogan Yan**, Nathan Kline Institute for Psychiatric Research, USA

Thank you very much for your comments!

We request the authors to reveal that the papers have been archived in PRN while submitting to preprint compatible journals.

We will share the comments with traditional journals, and encourage the authors to to enclose with their submission. The PRN is trying to work together with publons ([publons.com](http://publons.com)) to get credits for the commenters/reviewers.

Thanks,

Chao-Gan and The PRN Team

**Competing Interests:** No competing interests were disclosed.