Establishing a community for supporting and fostering adoption of reproducible research using R

Of

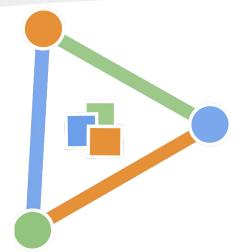
Adam H. Sparks

Emerson M. Del Ponte

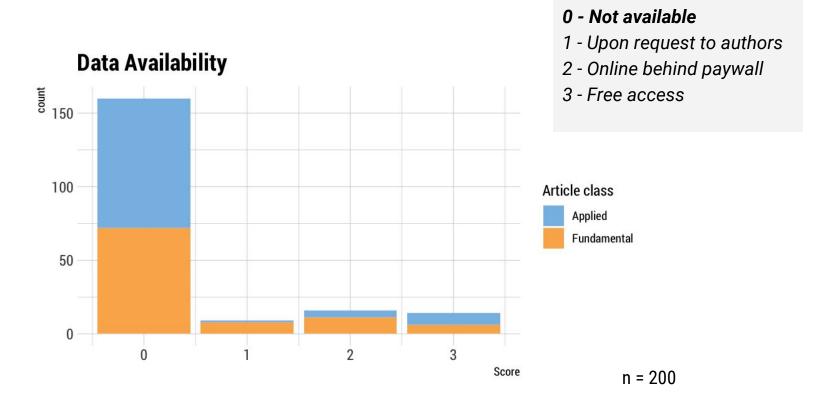






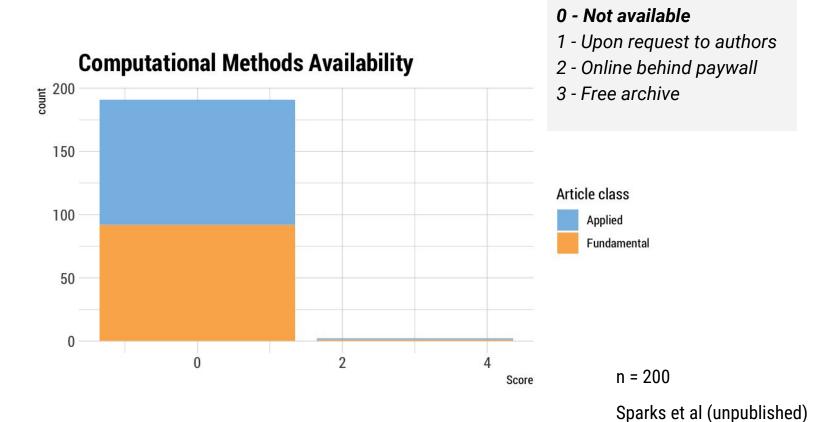


Data available?

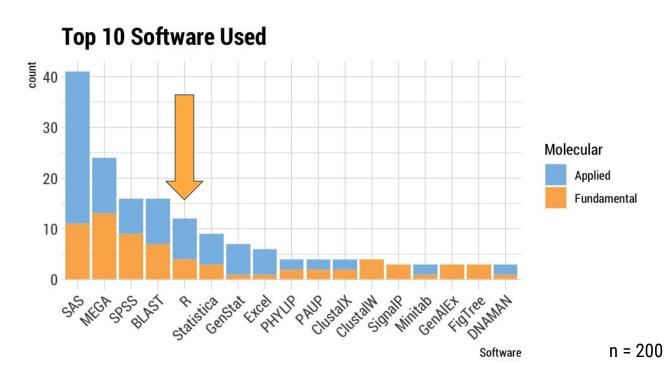


Sparks et al (unpublished)

Code available?



Software used?



Sparks et al (unpublished)

How can we change that?

www.openplantpathology.org



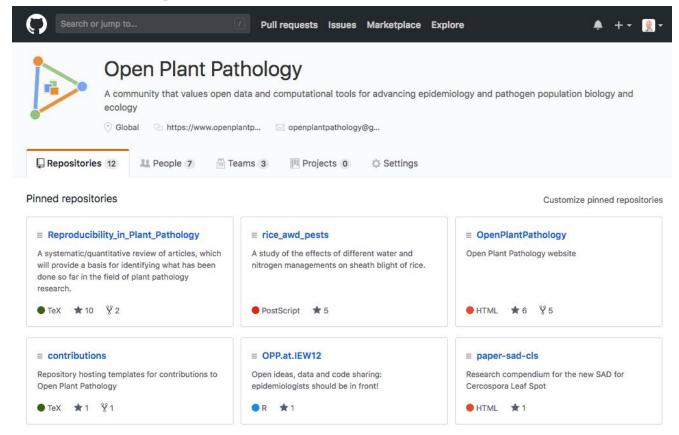


Website

Tools rmarkdown rrtools netlify 🎓 R Studio



Collaborative coding: GitHub



Outreach: workshops



Plant Health in a Global Economy

BOSTON
JULY 29 - AUGUST 3 2018



Population Genomics in R



Introduction to **R** for Plant Pathologists



Introduction to Multivariate Statistics Using R

Where we've struggled





log Posts |

OPP Note:

Vision and Mission

Members

Conta

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OPP Notes

Teaching notes peer-reviewed by community members.

>Contribute an OPP Note
>All Notes

Linear modelling of soil temperature effects on root lesion nematode population densities in R

Adam H Sparks, John P Thompson

This teaching note recreates the fit of linear and quadratic models using R for the population response of *Pratylenchus thornei* in Queensland, Australia wheat to temperature as described in the original paper.

READ FULL ARTICLE

Where we've succeeded

@openplantpath

Posts NOPP Notes Vision and Mission Members Contact CGH DT 🗱

near modelling of soil temperature effects on ot lesion nematode population densities in R

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s teaching note recreates the fit of linear and quadratic models ag R for the population response of *Pratylenchus thornei* in ensland, Australia wheat to temperature as described in the original per.

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Citations

JJ Allaire, Yihui Xie, Jonathan McPherson, Javier Luraschi, Kevin Ushey, Aron Atkins, Hadley Wickham, Joe Cheng and Winston Chang (2018). rmarkdown: Dynamic Documents for R. R package version 1.10.

https://CRAN.R-project.org/package=rmarkdown

Ben Marwick (2018). rrtools: Creates a reproducible research compendium. R package version 0.1.0. https://github.com/benmarwick/rrtools

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Yihui Xie (2018). blogdown: Create Blogs and Websites with R Markdown. R package version 0.6.

Yihui Xie, Alison Presmanes Hill, and Amber Thomas (2017). blogdown: Creating Websites with R Markdown. Chapman and Hall/CRC. ISBN 978-0815363729

Hadley Wickham and Jay Hesselberth (2018). pkgdown: Make Static HTML Documentation for a Package. R package version 1.1.0. https://CRAN.R-project.org/package=pkgdown

Data and slide availability

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https://openplantpathology.github.io/Reproducibility_in_Plant_Pathology

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https://github.com/openplantpathology/OPP.at.useR-2018