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

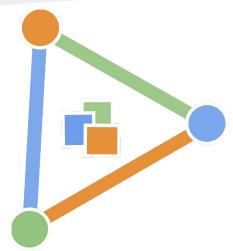
of

Adam H. Sparks

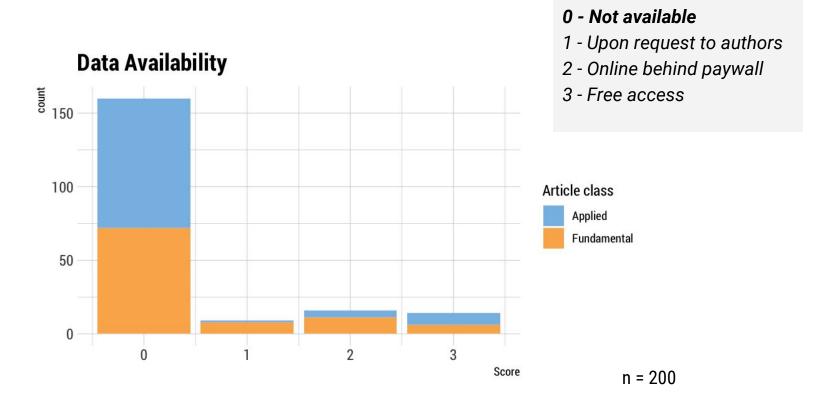
Emerson M. Del Ponte





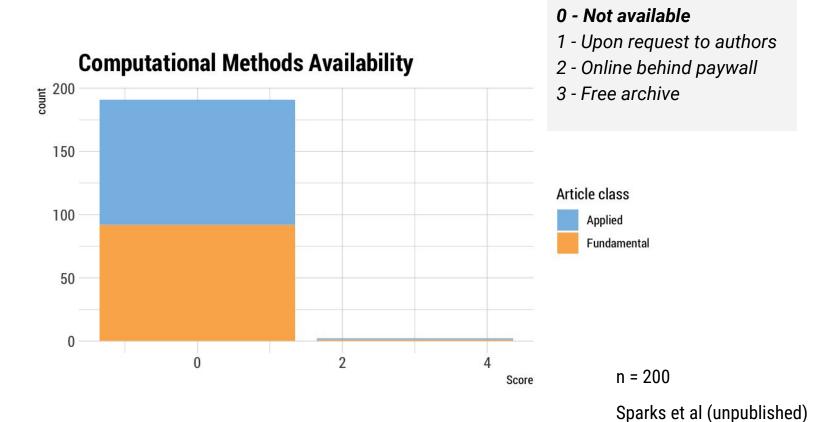


Data available?

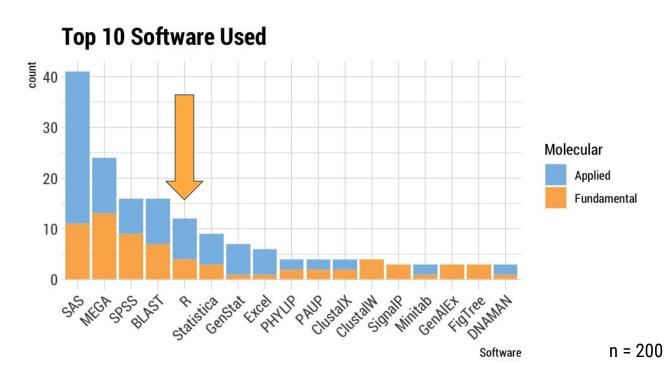


Sparks et al (unpublished)

Code available?



Software used?



Sparks et al (unpublished)

How can we change that?

www.openplantpathology.org



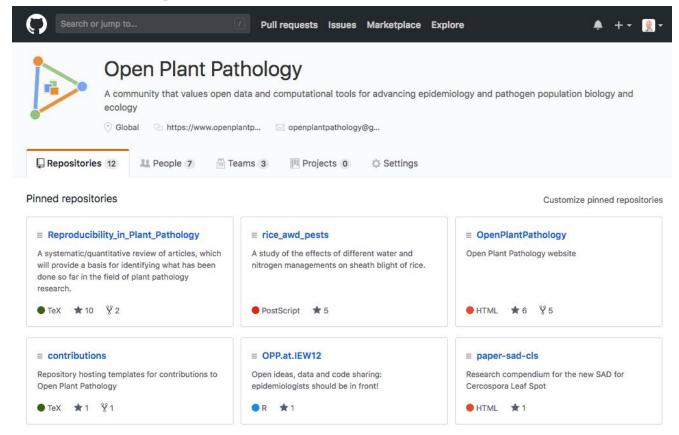


Website

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

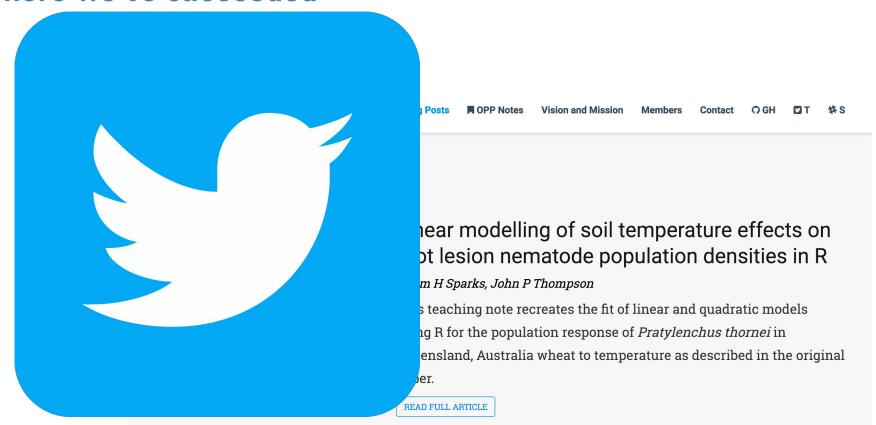
Linear modelling of soil temperature effects on root lesion nematode population densities in R

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



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

RStudio Team (2016). RStudio: Integrated Development for R. RStudio, Inc., Boston, MA. http://www.rstudio.com/

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

EM Del Ponte, AH Sparks, (2018). *Compendium of R code and data for 'Open ideas, data and code sharing:* epidemiologists should be in front!'. Accessed 04 Jul 2018. Online at https://doi.org/10.5281/zenodo.1304483



https://github.com/openplantpathology/OPP.at.IEW12

Sparks, A.H., Del Ponte, E.M., Everhart, S., Foster, Z.S.L., Grünwald, N., (2018). *Compendium of R code and data for 'Status and Best Practices for Reproducible Research In Plant Pathology'*. Accessed 04 Jul 2018. Online at https://doi.org/10.5281/zenodo.1250665



https://openplantpathology.github.io/Reproducibility_in_Plant_Pathology

AH Sparks, EM Del Ponte (2018). Establishing a community for supporting and fostering adoption of reproducible research using R. Accessed 10 Jul 2018. Online at



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