Adam H. Sparks

contact

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Adam H. Sparks
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skills

GIS
modelling
R programming

Professional Profile

- Wide ranging career demonstrating consistent success both in an non-profit international NGO and academia.
- Experience in conceptualising projects through successful grant applications, project management and attaining desired results.
- Extensive background of experiences in working with diverse partners.
- Broad experience in effective communication ranging from peer-reviewed journal articles to extension presentations and popular press.

Experience

2016–Present	**University of Southern Queensland** Toowoomba, Queensland, AUS	Associate Professor
2012–2015	**International Rice Research Institute** Los Baños, Laguna, PHL	Scientist I
2011–2012	**International Rice Research Institute** Los Baños, Laguna, PHL	Post-Doctoral Fellow
2009–2010	**Kansas State University** Manhattan, Kansas, USA	Post-Doctoral Research Associate
2002–2004	**University of Nebraska-Lincoln** Lincoln, Nebraska, USA	Research Technologist
2000–2003	**University of Nebraska-Lincoln** Clay Center, Nebraska, USA	Research Technician
1999–2000	**Purdue University** West Lafayette, Indiana, USA	Assistant Director
1997–1999	**Purdue University** West Lafayette, Indiana, USA	Research Technician

Education

2009	**Ph.D.** Plant Pathology Epidemiology and Ecology of Plant Pathogens **Dissertation:** *Disease risk mapping with metamodels for coarse resolution predictors: global potato late blight risk now and under future climate conditions*	Kansas State University, USA
2007	**Post Graduate Certificate** Geography Geographic Information Science	Kansas State University, USA
2000	**B.Sc.** Agronomy Soil and Crop Management	Purdue University, USA

Selected Publications

Previous Five Years

Evaluation of the 'Irish Rules': The potato late blight forecasting model and its operational use in the Republic of Ireland

M. Čučak, A. Sparks, de Andrade R. M. S. Kildea, K. Lambkin, R. Fealy

Agronomy 9.9 (2019) p. 515. Multidisciplinary Digital Publishing Institute. DOI: 10.3390/agronomy9090515

'hagis', an R package resource for pathotype analysis of *Phytophthora sojae* populations causing stem and root rot of soybean

A. G. McCoy, Z. A. Noel, A. H. Sparks, M. I. Chilvers

Molecular Plant-Microbe Interactions ja (2019). Am Phytopath Society. DOI: 10.1094/MPMI-07-19-0180-A

Concepts, approaches, and avenues for modelling crop health and crop losses

S. Savary, A. D. Nelson, A. Djurle, P. D. Esker, A. Sparks, L. Amorim, A. Bergamin Filho, T. Caffi, N. Castilla, K. Garrett, N. McRoberts, V. Rossi, J. Yuen, L. Willocquet

European Journal of Agronomy 100 (Oct. 2018) pp. 4–18. Elsevier. DOI: 10.1016/j.eja.2018.04.003

nasapower: A NASA POWER Global Meteorology, Surface Solar Energy and Climatology Data Client for R

A. H. Sparks

Journal of Open Source Software 3 (Oct. 2018) p. 1035

Crop health and its global impacts on the components of food security

S. Savary, S. Bregaglio, L. Willocquet, D. Gustafson, D. Mason D'Croz, A. Sparks, N. Castilla, A. Djurle, C. Allinne, M. Sharma, V. Rossi, L. Amorim, A. Bergamin, J. Yuen, P. Esker, N. McRoberts, J. Avelino, E. Duveiller, J. Koo, K. Garrett

Food Security 9.2 (Apr. 2017) pp. 311–327. Springer Nature. DOI: 10.1007/s12571-017-0659-1

getCRUCLdata: Use and Explore CRU CL v. 2.0 Climatology Elements in R

A. H. Sparks

The Journal of Open Source Software 2.12 (Apr. 2017). The Open Journal. DOI: 10.21105/joss.00230

GSODR: Global Summary Daily Weather Data in R

A. H. Sparks, T. Hengl, A. Nelson

The Journal of Open Source Software 2.10 (Feb. 2017). The Open Journal. DOI: 10.21105/joss.00177

bomrang: Fetch Australian Government Bureau of Meteorology Weather Data

A. H. Sparks, M. Padgham, H. Parsonage, K. Pembleton

The Journal of Open Source Software 2.17 (Sept. 2017). The Open Journal. DOI: 10.21105/joss.00411

Spatial modelling of rice yield losses in Tanzania due to bacterial leaf blight and leaf blast in a changing climate

C. Duku, A. H. Sparks, S. J. Zwart

Climatic Change 135.3-4 (Jan. 2016) pp. 569–583. Springer Nature. DOI: 10.1007/s10584-015-1580-2

Decision tools for bacterial blight resistance gene deployment in rice-based agricultural ecosystems

G. S. Dossa, A. Sparks, C. Vera Cruz, R. Oliva

Frontiers in Plant Science 6.305 (May 2015). Frontiers Media SA. DOI: 10.3389/fpls.2015.00305

Farmers' preference for rice traits: Insights from farm surveys in Central Luzon, Philippines, 1966-2012

A. G. Laborte, N. C. Paguirigan, P. F. Moya, A. Nelson, A. H. Sparks, G. B. Gregorio

PLOS ONE 10.8 (Aug. 2015) e0136562. Public Library of Science (PLoS). DOI: 10.1371/journal.pone.0136562