Adam H. Sparks

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.

contact

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adamhsparks.github.io **②** 0000-0002-0061-8359 **⑤** Adam H. Sparks **in**

skills

GIS modelling R programming

experience

2016-Present	University of Southern Queensland	Associate Professor
	Toowoomba, Queensland, AUS	
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	Post-Doctoral Research Associate
	Manhattan, Kansas, USA	
2002-2004	University of Nebraska-Lincoln	Research Technologist
	Lincoln, Nebraska, USA	
2000-2003	University of Nebraska-Lincoln	Research Technician
	Clay Center, Nebraska, USA	
1999-2000	Purdue University	Assistant Director
	West Lafayette, Indiana, USA	
1997-1999	Purdue University	Research Technician
	West Lafayette, Indiana, USA	

education

2009	Ph.D. Plant Pathology Epidemiology and Ecology of Plant Pathog	Kansas State University, USA
	Dissertation: Disease risk mapping with meta predictors: global potato late blight risk no ditions	
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

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

European Journal of Agronomy (2018). Elsevier

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

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Journal of Open Source Software 3 (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

Philippine Rice Information System (PRISM): innovating the rice field data capture and monitoring using smartphone

J. M. Maloon, E. J. P. Quilang, M. R. O. Mabalay, J. L. Dios, A. C. Arocena Jr. J. R. F. Mirandilla, P. A. Mabalot, M. I. Barroga, R. T. Dollontas, G. C. Peralta, G. Mesa, B. T. Salazar, G. D. Balleras, N. B. Detoito, G. Arida, D. K. M. Donayre, E. C. Martin, G. F. Estoy, A. Nelson, A. Sparks, J. V. Raviz, A. G. Laborte, T. O. Setiyono, A. A. Maunahan, A. B. Rala, J. E. Villa, N. P. Castilla, Z. M. Bhatti, D. D. Maco, R. S. Bayot, M. Barbierri

Philippine Journal of Crop Science (2015)

Climate change may have limited effect on global risk of potato late blight

A. H. Sparks, G. A. Forbes, R. J. Hijmans, K. A. Garrett

Global Change Biology 20.12 (May 2014) pp. 3621-3631. Wiley-Blackwell. DOI: 10.1111/gcb.12587

A review on crop losses, epidemiology and disease management of rice brown spot to identify research priorities and knowledge gaps

M. K. Barnwal, A. Kotasthane, N. Magculia, P. K. Mukherjee, S. Savary, A. K. Sharma, H. B. Singh, U. S. Singh, A. H. Sparks, M. Variar, N. Zaidi

European Journal of Plant Pathology 136.3 (Mar. 2013) pp. 443-457. Springer Nature. DOI: 10.1007/s10658-013-0195-6