

# 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

Centre for Crop Health  
University of Southern  
Queensland  
Toowoomba QLD 4350  
Australia  
adam.sparks@usq.edu.au  
+61 (4) 1548 9422 ☎  
adam.h.sparks 📧

## web

adamhsparks.github.io  
Adam H. Sparks 🔗  
@adamhsparks 🐦  
adamhsparks 📺

## skills

GIS  
modelling  
R programming

## experience

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

## education

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

## selected publications

### previous five years

#### 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, Mamta Sharma, V. Rossi, L. Amorim, A. Bergamin, J. Yuen, P. Esker, Neil McRoberts, J. Avelino, E. Duveiller, J. Koo, K. Garrett

Food Security (Mar. 2017) pp. 1–17. DOI: 10.1007/s12571-017-0659-1

#### 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

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

Adam H Sparks

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

#### 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 (Jan. 2016) pp. 569–583. DOI: 10.1007/s10584-015-1580-2

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

S G Dossa, A H Sparks, C M Vera Cruz, R Oliva

Frontiers in Plant Science 6.305 (May 2015). 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 e0136562 (July 2015). DOI: DOI:10.1371/journal.pone.0136562

#### 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 (Dec. 2014) pp. 3621–3631. 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 (2013) pp. 443–457. DOI: 10.1007/s10658-013-0195-6

#### Taking transgenic rice drought screening to the field

A. C. M. Gaudin, A. Henry, A. H. Sparks, I. H. Slamet-Loedin

Journal of Experimental Botany 63.1 (2013) pp. 109–117. DOI: 10.1093/jxb/ers313

#### An economic assessment of the impact of mango pulp weevil on the agricultural sector of Palawan, Philippines

J. D. Mckinley, A. H. Sparks, V. O. Pede, B. Duff

The Philippine Agricultural Scientist 95.3 (2012) pp. 286–292