Adam H. Sparks

experience

Contact Centre for Crop Health University of Southern Queensland Toowoomba QLD 4350 Australia		University of Southern Queensland Toowoomba, QLD, Australia Associate Professor Conduct research with the Centre for Crop Health to help farmers address disease problems with summer crops in QLD and NSW
	2012–2015	International Rice Research Institute Los Baños, Philippines Scientist I Develop tools and strategies for farmers to use in addressing rice diseases
	2011–2012	International Rice Research Institute Los Baños, Philippines Post-Doctoral Fellow Linked botanic epidemiology models to GIS tools for mapping model output
addining and sequilation		Kansas State University, Manhattan, KS, USA Post-Doctoral Research Associate Developed and refined predictive Fusarium head blight models for wheat http://www.wheatscab.psu.edu/
adam.h.sparks 🥄	2002–2004	University of Nebraska-Lincoln , Lincoln, NE, USA Research Technologist Managed maize and soybean plant pathology extension field research
web Adam H. Sparks (1) @adamhsparks (2) adamhsparks (2)	2000–2003	University of Nebraska-Lincoln, Clay Center, NE, USA Research Technician Managed maize and sorghum plant pathology extension field research
	1999–2000	Purdue University, West Lafayette, IN, USA Coordinated training events for Purdue Diagnostic Training and Research Center
skills GIS modelling	1997–1999	Purdue University, West Lafayette, IN, USA Research Technician Managed soybean and canola production research studies

education

agricultural statistics

2009	Ph.D. Plant Pathology Epidemiology and Ecology of Plant Pat	Kansas State University, Manhattan, KS, USA:hogens
	Dissertation: Disease risk mapping with repredictors: global potato late blight risk ditions	
2007	Post Graduate Certificate Geography Geographic Information Science	Kansas State University, Manhattan, KS, USA
2000	B.Sc. Agronomy Soil and Crop Management	Purdue University, West Lafayette, IN, USA

selected publications

Previous Five Years

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

Confidence D, A H Sparks, S Zwart Climatic Change (Accepted 2015)

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 (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 (Aug. 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 (2014) pp. 3621–3631. DOI: 10.1094/PDIS-04-11-031

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

Complexity in climate-change impacts: an analytical framework for effects mediated by plant disease

K A Garrett, G A Forbes, S Savary, P Skelsey, A H Sparks, C Valdivia, A H C van Bruggen, L Willocquet, A Djurle, E Duveiller, H Eckersten, S Pande, C Vera Cruz, J Yuen Plant Pathology 60.1 (2011) pp. 15–30. DOI: 10.1111/j.1365-3059.2010.02409.x

International agricultural research tackling the effects of global and climate changes on plant diseases in the developing world

Serge Savary, Andrew Nelson, Adam H. Sparks, Laetitia Willocquet, Etienne Duveiller, George Mahuku, Greg Forbes, Karen A. Garrett, David Hodson, Jon Padgham, Suresh Pande, Mamta Sharma, Jonathan Yuen, Annika Djurle

Plant Disease 95.10 (2011) pp. 1204-1216. Scientific Societies. DOI: 10.1094/PDIS-04-11-0316

A metamodeling framework for extending the application domain of process-based ecological models

A H Sparks, G A Forbes, R J Hijmans, K A Garrett Ecosphere 2.8 (2011) art90. DOI: 10.1890/ES11-00128.1

service to profession

currently reviewing for
Global Change Biology
European Journal of Plant Pathology
Climatic Change
Food and Energy Security

organizational service

2014–2015 Crop and Environmental Sciences Division Seminar Committee Chair

2015 IRRI OCS Advisory Group Member

professional certifications

PRINCE2 Foundation (2014) candidate number: P2R/009385 - HiLogic Pty Ltd.

professional affiliations

Australasian Plant Pathology Society (APPS) American Phytopathological Society (APS) International Society for Plant Pathology (ISPP)