

# Adam H. Sparks

## 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

## contact

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## web

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## skills

GIS  
modelling  
agricultural statistics

## education

2009	<b>Ph.D. Plant Pathology</b> 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. Agronomy</b> Soil and Crop Management	Purdue University, West Lafayette, Indiana, 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)