

# Adam H. Sparks

## experience

**contact**  
Centre for Crop Health  
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**web**  
Adam H. Sparks  
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**skills**  
GIS  
modelling  
agricultural statistics

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. Plant Pathology</b> Epidemiology and Ecology of Plant Pathogens <b>Dissertation:</b> Disease risk mapping with metamodels for coarse resolution predictors: global potato late blight risk now and under future climate conditions	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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/10.1890/ES11-00128.1)

## service to profession

currently reviewing for

Global Change Biology

European Journal of Plant Pathology

Annals of Applied Biology

## 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)