

# Adam H. Sparks

## experience

### contact

IRRI  
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### web

Adam H. Sparks   
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### skills

GIS  
modelling  
agricultural statistics

- 2012–present **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*
- 2009–2010 **Kansas State University**, Manhattan, Kansas, USA Post-Doctoral Research Associate  
*Developed and refined predictive Fusarium head blight models for wheat*  
<http://www.wheatcab.psu.edu/>
- 2002–2004 **University of Nebraska-Lincoln**, Lincoln, Nebraska, USA Research Technologist  
*Managed maize and soybean plant pathology extension field research*
- 2000–2003 **University of Nebraska-Lincoln**, Clay Center, Nebraska, USA Research Technician  
*Managed maize and sorghum plant pathology extension field research*
- 1999–2000 **Purdue University**, West Lafayette, Indiana, USA Assistant Director  
*Coordinated training events for Purdue Diagnostic Training and Research Center*
- 1997–1999 **Purdue University**, West Lafayette, Indiana, USA Research Technician  
*Managed soybean and canola production research studies*

## education

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

## selected publications

### Previous Five Years

- Farmers' preference for rice traits: Insights from farm surveys in Central Luzon, Philippines, 1966–2012  
A G Laborte, N Paguirigan, P F Moya, A Nelson, A H Sparks, G B Gregorio  
*PLOS ONE (In Press)*
- 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
- 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

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 63.2 (2012) pp. 695–709. 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

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

## organizational service

2014–present **Crop and Environmental Sciences Division Seminar Committee Chair**

2015–present **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)