

# Adam H. Sparks

Plant Disease Management Specialist@IRRI

## skills

GIS  
modelling  
agricultural statistics

## contact

IRRI  
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## web

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Github: adamhsparks 🏠  
Figshare: Adam Sparks

## experience

- since 2012 **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 plant disease models with GIS tools*
- 2009-2010 **Kansas State University, Manhattan, Kansas** Post-Doctoral Research Associate  
*Developed and refined predictive Fusarium head blight models for wheat*
- 2002-2004 **University of Nebraska-Lincoln, Lincoln, Nebraska** Research Technologist  
*Managed maize and soybean plant pathology extension field research*
- 2000-2003 **University of Nebraska-Lincoln, Clay Center, Nebraska** Research Technician  
*Managed maize and sorghum plant pathology extension field research*
- 1999-2000 **Purdue University, West Lafayette, Indiana** Assistant Director  
*Coordinated training events for Purdue Diagnostic Training and Research Center*
- 1997-1999 **Purdue University, West Lafayette, Indiana** Research Technician  
*Managed soybean and canola production research studies*

## education

- 2009 **Ph.D. Plant Pathology** Kansas State University, Manhattan, Kansas  
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  
Geographic Information Science
- 2000 **B.Sc. Agronomy** Purdue University, West Lafayette, Indiana  
Soil and Crop Management

## selected publications

### Previous Five Years

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 (2014). 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 63.2 (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](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

S Savary, A Nelson, A H Sparks, L Willocquet, E Duveiller, G Mahuku, G Forbes, K A Garrett, J Padgham, S Pande, M Sharma, J Yuen, A Djurle

*Plant Disease* 48 (2011) pp. 1–40

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)

Beyond yield: plant disease in the context of ecosystem services.

M R Cheatham, M N Rouse, P D Esker, S Ignacio, W Pradel, R Raymundo, A H Sparks, G A Forbes, T R Gordon, K A Garrett

*Phytopathology* 99.11 (2009) pp. 1228–36. DOI: [10.1094/PHYTO-99-11-1228](https://doi.org/10.1094/PHYTO-99-11-1228)

## professional certifications

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

## professional affiliations

American Phytopathological Society (APS)

Australasian Plant Pathology Society (APPS)

International Society of Plant Pathology (ISPP)

International Association for the Plant Protection Sciences (IAPPS)