Adam H. Sparks

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skills

GIS
modelling
agricultural statistics

experience

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

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

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:* `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)