AdamH.Sparks

Plant Disease Management Specialist@IRRI

skills

GIS
modelling
agricultural statistics

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personal summary

I am a plant pathology epidemiologist and ecologist who can effectively communicate and collaborate with diverse partners and stakeholders in an international setting. My work encompases traditional field-based research, epidemiological modeling, climate change, GIS and statistical methods. In turn, I use this work to understand what drives crop disease epidemics and derive disease control recomendations farmers and make recomendations for policy makers and other decision makers.

experience

since 2012 **International Rice Research Institute** (IRRI) — Scientist I
Develop tools and strategies for farmers to use in addressing rice diseases

2011-2012 **International Rice Research Institute** (IRRI) — Post-Doctoral Fellow
Linked plant disease models with GIS tools

2009-2010 **Kansas State University** — Post-Doctoral Research Associate
Developed and refined predictive Fusarium head blight models for wheat

2002-2004 **University of Nebraska-Lincoln** — Research Technologist
Managed maize and soybean plant pathology extension field research

2000-2003 **University of Nebraska-Lincoln** — Research Technician
Managed maize and sorghum plant pathology extension field research

1999-2000 **Purdue University** — Assistant Director
Coordinated training events for Purdue Diagnostic Training and Research Center

1997-1999 **Purdue University** — Research Technician
Managed soybean and canola production research studies

education

2009 **Ph.D.** Plant Pathology — Kansas State University
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
Geographic Information Science

2000 **B.Sc.** Agronomy — Purdue University
Soil and Crop Management

selected publications

Previous Five Years

Climate change may have little 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`

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`

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`

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)