Adam H. Sparks

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web

Adam H. Sparks
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skills

GIS
modelling
agricultural statistics

experience

2016–Present	**University of Southern Queensland** Toowoomba, Queensland, AUS	Associate Professor
2012–2015	**International Rice Research Institute** Los Baños, Laguna, PHL	Scientist I
2011–2012	**International Rice Research Institute** Los Baños, Laguna, PHL	Post-Doctoral Fellow
2009–2010	**Kansas State University** Manhattan, Kansas, USA	Post-Doctoral Research Associate
2002–2004	**University of Nebraska-Lincoln** Lincoln, Nebraska, USA	Research Technologist
2000–2003	**University of Nebraska-Lincoln** Clay Center, Nebraska, USA	Research Technician
1999–2000	**Purdue University** West Lafayette, Indiana, USA	Assistant Director
1997–1999	**Purdue University** West Lafayette, Indiana, USA	Research Technician

education

2009	**Ph.D.** Plant Pathology Epidemiology and Ecology of Plant Pathogens **Dissertation:** 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	**Post Graduate Certificate** Geography Geographic Information Science	Kansas State University, Manhattan, Kansas, USA
2000	**B.Sc.** Agronomy 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 leaf blight and leaf blast in a changing climate
C Duku, A H Sparks, S J Zwart
Climatic Change 135.3 (Jan. 2016) pp. 569–583. DOI: *10.1007/s10584-015-1580-2*

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 (May 2015). DOI: *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*

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 (Dec. 2014) pp. 3621–3631. 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 63.1 (2013) pp. 109–117. DOI: *10.1093/jxb/ers313*

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, D Hodson, J Padgham, S Pande, M Sharma, J Yuen, A 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*