# Adam H. Sparks


## contact

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## web

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## skills

GIS
modelling
R

## experience

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

## education

| | | |
|---|---|---|
| 2009 | **Ph.D.** Plant Pathology<br>Epidemiology and Ecology of Plant Pathogens<br>**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<br>Geographic Information Science | Kansas State University, Manhattan, Kansas, USA |
| 2000 | **B.Sc.** Agronomy<br>Soil and Crop Management | Purdue University, West Lafayette, Indiana, USA |

## selected publications

### previous five years

GSODR: Global Summary Daily Weather Data in R

Adam H Sparks, Tomislav Hengl, Andrew Nelson

The Journal of Open Source Software *2.10 (Feb. 2017). The Open Journal. DOI: 10.21105/joss.00177*

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*

## organizational service

2014–2015 **Crop and Environmental Sciences Division Seminar Committee Chair**

2015 **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)

## professional service

International Congress of Plant Pathology (ICPP) 2018 Epidemiology Committee
American Phytopathological Society (APS) Epidemiology Committee