

Adam H. Sparks

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

contact

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Adam H. Sparks
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skills

GIS
modelling
R

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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](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, 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](https://doi.org/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](https://doi.org/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)