

Adam H. Sparks


professional profile

- Wide ranging career demonstrating consistent success both in an non-profit international NGO and academia.
- Experience in conceptualising projects through successful grant applications, project management and attaining desired results.
- Extensive background of experiences in working with diverse partners.
- Broad experience in effective communication ranging from peer-reviewed journal articles to extension presentations and popular press.

contact

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Adam H. Sparks 
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skills

GIS
modelling
R programming

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

Crop health and its global impacts on the components of food security

S. Savary, S. Bregaglio, L. Willocquet, D. Gustafson, D. Mason D'Croz, A. Sparks, N. Castilla, A. Djurle, C. Allinne, Mamta Sharma, V. Rossi, L. Amorim, A. Bergamin, J. Yuen, P. Esker, Neil McRoberts, J. Avelino, E. Duveiller, J. Koo, K. Garrett

Food Security (Mar. 2017) pp. 1–17. DOI: [10.1007/s12571-017-0659-1](https://doi.org/10.1007/s12571-017-0659-1)

getCRUCLdata: Use and Explore CRU CL v. 2.0 Climatology Elements in R

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The Journal of Open Source Software 2.12 (Apr. 2017). The Open Journal. DOI: [10.21105/joss.00230](https://doi.org/10.21105/joss.00230)

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

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