

Adam H. Sparks

professional profile

- Wide ranging career demonstrating consistent success both in a 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

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|--------------|--|----------------------------------|
| 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

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|------|--|------------------------------|
| 2009 | Ph.D. Plant Pathology Epidemiology and Ecology of Plant Pathogens Dissertation: <i>Disease risk mapping with metamodels for coarse resolution predictors: global potato late blight risk now and under future climate conditions</i> | Kansas State University, USA |
| 2007 | Post Graduate Certificate Geography Geographic Information Science | Kansas State University, USA |
| 2000 | B.Sc. Agronomy Soil and Crop Management | Purdue University, 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, M. Sharma, V. Rossi, L. Amorim, A. Bergamin, J. Yuen, P. Esker, N. McRoberts, J. Avelino, E. Duveiller, J. Koo, K. Garrett

Food Security 9.2 (Apr. 2017) pp. 311–327. Springer Nature. DOI: 10.1007/s12571-017-0659-1

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

A. H. Sparks

The Journal of Open Source Software 2.12 (Apr. 2017). The Open Journal. DOI: 10.21105/joss.00230

GSODR: Global Summary Daily Weather Data in R

A. H. Sparks, T. Hengl, A. Nelson

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

bomrang: Fetch Australian Government Bureau of Meteorology Weather Data

A. H. Sparks, M. Padgham, H. Parsonage, K. Pembleton

The Journal of Open Source Software 2.17 (Sept. 2017). The Open Journal. DOI: 10.21105/joss.00411

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 135.3-4 (Jan. 2016) pp. 569–583. Springer Nature. DOI: 10.1007/s10584-015-1580-2

Decision tools for bacterial blight resistance gene deployment in rice-based agricultural ecosystems

G. S. Dossa, A. Sparks, C. Vera Cruz, R. Oliva

Frontiers in Plant Science 6.305 (May 2015). Frontiers Media SA. 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 10.8 (Aug. 2015) e0136562. Public Library of Science (PLOS). DOI: 10.1371/journal.pone.0136562

Philippine Rice Information System (PRISM): innovating the rice field data capture and monitoring using smartphone

J. M. Maloon, E. J. P. Quilang, M. R. O. Mabalay, J. L. Dios, A. C. Arocena Jr. J. R. F. Mirandilla, P. A. Mabalot, M. I. Barroga, R. T. Dollontas, G. C. Peralta, G. Mesa, B. T. Salazar, G. D. Balleras, N. B. Detoito, G. Arida, D. K. M. Donayre, E. C. Martin, G. F. Estoy, A. Nelson, A. Sparks, J. V. Raviz, A. G. Laborte, T. O. Setiyono, A. A. Maunahan, A. B. Rala, J. E. Villa, N. P. Castilla, Z. M. Bhatti, D. D. Maco, R. S. Bayot, M. Barbierri

Philippine Journal of Crop Science (2015)

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 20.12 (May 2014) pp. 3621–3631. Wiley-Blackwell. 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 (Mar. 2013) pp. 443–457. Springer Nature. DOI: 10.1007/s10658-013-0195-6

Taking transgenic rice drought screening to the field

A. C. M. Gaudin, A. H. A. H. Sparks, I. H. Slamet-Loedin

Journal of Experimental Botany 64.1 (Dec. 2012) pp. 109–117. Oxford University Press (OUP). DOI: 10.1093/jxb/ers313