

# Adam H. Sparks

## experience

**contact**  
Centre for Crop Health  
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**web**  
Adam H. Sparks  
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**skills**  
GIS  
modelling  
R

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

## education

2009	<b>Ph.D. Plant Pathology</b> Epidemiology and Ecology of Plant Pathogens <b>Dissertation:</b> 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	<b>Post Graduate Certificate</b> Geography Geographic Information Science	Kansas State University, Manhattan, Kansas, USA
2000	<b>B.Sc. Agronomy</b> 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. Springer. DOI: [10.1007/s12571-017-0659-1](https://doi.org/10.1007/s12571-017-0659-1)
- 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.

## **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