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 in @adamhsparks >

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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	Kansas State University, USA
	Epidemiology and Ecology of Plant Pathogens	
	Dissertation: Disease risk mapping with metamodel predictors: global potato late blight risk now and ditions	
2007	Post Graduate Certificate Geography Geographic Information Science	Kansas State University, USA
2000	B.Sc. Agronomy Soil and Crop Management	Purdue University, USA

Publications

Invited Talks

2018	Upscaling models, downscaling data or the right model for the right scale of application? 2018 International Congress of Plant Pathology Boston, Massachusetts, USA
2016	Using modelling and mapping for digital insights into diseases in the rice field 2016 Korean Society of Plant Pathology Fall Meeting and International Conference Seoul National University Pyeongchang, Gangwon-do, Korea
2014	Taking sustainable crop protection from the field to the cloud 4th International Rice Congress (IRC2014) Bangkok, Thailand
2014	Impact of climate change on rice diseases Workshop on the impact of climate change on crop pests and diseases, and adaptation strategies for the Greater Mekong Sub - Region (GMS) Hotel Continental Saigon, Ho Chi Minh City, Vietnam
2014	Epidemiology and Disease Management of rice brown spot: Research priorities and knowledge gaps 66th Annual Indian Phytopathological Society Meeting Indira Gandhi Krishi Vishwavidyalaya University, Raipur, India
2013	Biosecurity risks in Southeast Asia impacting on human food supplies Pacific Environmental Security Forum Australian Department of Defence (ADoD) and U. S. Pacific Command (US-PACOM) Sydney, New South Wales, Australia
2010	Global potato late blight risk in response to climate change, possible futures for a historic disease Emerging infectious diseases in response to climate change. New York Academy of Sciences, New York, New York, USA

Doctoral Dissertation Mentorship

Current	Mladen Cucak (Collaborator) Can we still use 'Irish Rules' to foreca	Maynooth University/TEAGASC, IRL ast development of potato late blight
Current	Charles T. Gray (Collaborator) Statistical Meta-research	La Trobe University, AUS
2016		University of the Philippines, Los Baños, PHL urvey data for characterization of yield systems in south and southeast Asia

Master's Thesis Mentorship

2017 Patrick Kiplimo Toroitich (Collaborator) Strathmore University, KEN A model for early detection of potato late blight disease: A case study in Nakuru County
 2016 Jerico Bigornia (Principal Supervisor) University of the Philippines, Los Baños, PHL

Environmental performance of water saving technologies for irrigated low-

land rice production

Extramural Support

2017	USQ Research Infrastructure Program 2017 Pls: D. Adorada, A. Sparks, A. Young
2016-2019	EPIC (Developing Ecologically-based Participatory IPM package for rice in Cambodia) USD 2.2 million PIs: B. Hadi (IRRI), A. Sparks, V. Kumar (IRRI), A. Stuart (IRRI), R. Oliva (IRRI), I.R. Choi (IRRI)
2016-2019	Syngenta-IRRI Scientific Knowledge and Exchange Program Phase III, Sub-Project 1 - Crop Health Management Pls: A. Sparks (IRRI) and K. K. Fui (Syngenta)
2015-2017	Identifying resistant rice germplasm to false smut using combined screening approaches and understanding the mechanisms underlying rice resistance USD 653,914 Epidemiology and environmental characterisation of false smut, Pls: B. Zhou (IRRI), C. M. Vera Cruz (IRRI) and A. Sparks (IRRI)
2013-2017	PRISM (Philippine Rice Information SysteM) Component B - Crop Health Monitoring, Pls: A. Nelson (IRRI), A. Sparks (IRRI), G. S. Arida (PhilRice), E. J. P. Quilang (PhilRice)
2013-2015	Syngenta-IRRI Scientific Knowledge and Exchange Program Phase II, Sub-Project 2 - Crop Health Management PI: A. Sparks (IRRI) and K. K. Fui (Syngenta)

Awards

2016 GovHack 2016 First Place Award for Paddock to Plate Category, John Conner Hack
As part of the Toowoomba Trio with K Pembleton and G Grundy

Professional Affiliations

Australasian Plant Pathology Society (APPS)

American Phytopathological Society (APS)

International Society for Plant Pathology (ISPP)

Professional Service

Co-founder Open Plant Pathology

Section Editor Tropical Plant Pathology

Member Australia National Plant Biosecurity Diagnostic Network

Member ExtensionAUS Field Crop Diseases Community of Practice

Member International Congress of Plant Pathology (ICPP) Epidemiology Committee