

# 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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## web

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## skills

GIS  
modelling  
R programming

## Experience

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> <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	<b>Post Graduate Certificate</b> Geography Geographic Information Science	Kansas State University, USA
2000	<b>B.Sc. Agronomy</b> Soil and Crop Management	Purdue University, USA

## Publications

### Peer Reviewed

The inequality-growth link revisited with spatial considerations: the case of provinces in the Philippines

V. O. Pede, G. Barboza, A. H. Sparks, J. McKinley

*Journal of the Asia Pacific Economy* 23.3 (2018) pp. 411–427. Routledge. DOI: 10.1080/13547860.2018.1503765

Concepts, approaches, and avenues for modelling crop health and crop losses

S. Savary, A. D. Nelson, A. Djurle, P. D. Esker, A. Sparks, L. Amorim, A. Bergamin Filho, T. Caffi, N. Castilla, K. Garrett, N. McRoberts, V. Rossi, J. Yuen, L. Willocquet

*European Journal of Agronomy* 100 (Oct. 2018) pp. 4–18. Elsevier. DOI: 10.1016/j.eja.2018.04.003

nasapower: A NASA POWER global meteorology, surface solar energy and climatology data client for R

A. H. Sparks

*Journal of Open Source Software* 3 (Oct. 2018) p. 1035. DOI: 10.21105/joss.01035

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). 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). 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). 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 (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. R. 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. 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

## 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

## 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. Bruggen, L. Willocquet, A. Djurle, E. Duveiller, H. Eckersten, S. Pande, C. Vera Cruz, J. Yuen

*Plant Pathology* 60.1 (Jan. 2011) pp. 15–30. Wiley-Blackwell. DOI: 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 (Nov. 2011) pp. 1204–1216. Scientific Societies. DOI: 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 (Aug. 2011) art90. Wiley-Blackwell. DOI: 10.1890/es11-00128.1

## Beyond yield: Plant disease in the context of ecosystem services

M. R. Cheatham, M. N. Rouse, P. D. Esker, S. Ignacio, W. Pradel, R. Raymundo, A. H. Sparks, G. A. Forbes, T. R. Gordon, K. A. Garrett

*Phytopathology* 99.11 (Nov. 2009) pp. 1228–1236. Scientific Societies. DOI: 10.1094/phyto-99-11-1228

## Ecology and epidemiology in R: Disease forecasting

P. D. Esker, A. H. Sparks, L. Campbell, Z. Guo, M. Rouse, S. D. Silwal, S. Tolos, B. Van Allen, K. A. Garrett

*The Plant Health Instructor* (2008). Scientific Societies. DOI: 10.1094/phi-a-2008-0129-01

## Ecology and epidemiology in R: Spatial analysis

A. H. Sparks, P. D. Esker, G. Antony, L. Campbell, E. E. Frank, L. Huebel, M. N. Rouse, B. Van Allen, K. A. Garrett

*The Plant Health Instructor* (2008). Scientific Societies. DOI: 10.1094/phi-a-2008-0129-03

## Ecology and epidemiology in R: Disease progress over time

A. H. Sparks, P. D. Esker, M. Bates, W. Dall'Acqua, Z. Guo, V. Segovia, S. D. Silwal, S. Tolos, K. A. Garrett

*The Plant Health Instructor* (2008). Scientific Societies. DOI: 10.1094/phi-a-2008-0129-02

## Ecology and epidemiology in R: Modeling dispersal gradients

P. D. Esker, A. H. Sparks, G. Antony, M. Bates, W. Dall'Acqua, E. E. Frank, L. Huebel, V. Segovia, K. A. Garrett

*The Plant Health Instructor* (2007). DOI: 10.1094/PHI-A-2007-1226-03

## An introduction to the R programming environment

K. A. Garrett, P. D. Esker, A. H. Sparks

The Plant Health Instructor (2007). *Scientific Societies*. DOI: 10.1094/phi-a-2007-1226-02

### Writing teaching documents as a class project

K. A. Garrett, P. D. Esker, A. H. Sparks, L. C. Scharmann

The Plant Health Instructor (2007). *Scientific Societies*. DOI: 10.1094/phi-t-2007-1226-01

## Conferences/Proceedings

### A broad look at charcoal rot in the Northern Region broadacre crops through soil sampling and in-crop surveys

D. L. Adorada, P. Gonzales, A. McKay, N. Vaghefi, A. H. Sparks

Proceedings of the 10th Australasian Soilborne Diseases Symposium (Sept. 2018). Adelaide, SA, AUS

### Fungi and bacteria associated with the Peanut Kernel Shrivell (PKS) disease in the Bundaberg region

D. L. Adorada, S. M. Thompson, R. A. Grams, E. E. Adorada, A. H. Sparks, G. Wright, D. O'Connor, G. J. Ash

Proceedings of the Australasian Plant Pathology Society 2017 Meeting (2017)

### Lowering thresholds of qualitative plant risk prediction algorithms: sensitivity versus specificity of Irish Rules for potato late blight development

M. Cucak, A. H. Sparks, R. Fealy, D. Griffin, K. Lambkin, S. Kildea

Euroblight Workshop (2017)

### Mungbean and sorghum disease update

L. Kelly, J. White, M. Sharman, H. Brier, L. Williams, R. Grams, D. Weir, A. McKay, A. H. Sparks

GRDC Updates (Jondaryan) (July 2017). Jondaryan, Queensland, Australia

### Do alternate wetting and drying irrigation technologies and nitrogen rates affect rice sheath blight?

A. H. Sparks, N. P. Castilla, B. O. Sander

Proceedings of the Australasian Plant Pathology Society 2017 Meeting (2017)

### Evaluation of correlation methods for co-occurrence network construction of rice crop health survey data

S. Jaisong, N. P. Castilla, C. T. Magculia, S. Savary, I. B. Pangga, A. H. Sparks

Proceedings of the Australasian Plant Pathology Society 2015 Meeting (2015)

### Mapping rice diseases for targeted deployment of resistant varieties in India

A. H. Sparks, M. Noel

Proceedings of the Australasian Plant Pathology Society 2015 Meeting (2015)

### Modeling the impact of disease resistance on rice yields in the Philippines and Indonesia

A. H. Sparks, J. Anaurio, C. Duku, M. Noel, D. Raitzer

Proceedings of the Australasian Plant Pathology Society 2013 Meeting (2013). Freemantle, WA, AUS

### Spatial modelling of rice yield losses due to bacterial leaf blight and leaf blast in a changing climate

A. H. Sparks, C. Duku, M. Noel, S. J. Zwart

Acta Phytopathologica Sinica vol. 43. Supplement (2013)

### Predisposition factors affecting brown spot disease development in rice

N. J. Magculia, A. H. Sparks

Phytopathology vol. 102:S4.74.7 (2012)

### Putting information to use: Decisions at different scales

S. Savary, A. H. Sparks, A. Nelson, N. McRoberts, P. D. Esker

Phytopathology vol. 102:S4.162 (2012)

### Preventing what ails rice with a strategic, statistical, prescriptive model system

A. H. Sparks, S. Savary, A. Nelson

Phytopathology vol. 102:S4.113.7 (2012)

## Income inequality and economic growth in the Philippines

G. B. Ballesefin, V. O. Pede, A. H. Sparks

The Conference Secretariat, 2011 PAEDA Biennial Convention (2011)

## An economic assessment of the impact of mango pulp weevil on the agricultural sector of Palawan, Philippines

J. McKinley, V. O. Pede, A. H. Sparks, B. Duff

The Conference Secretariat, 2011 PAEDA Biennial Convention (2011)

## Refined empirical models for predicting Fusarium head blight epidemics in the United States

A. Sparks, D. Shah, E. DeWolf, L. Madden, P. Paul, K. Willyerd

Phytopathology vol. 101:S223 (2011)

## Crop losses in highly populated areas: A global perspective

L. Willocquet, A. Nelson, A. Sparks, A. Laborte, S. Savary

Phytopathology vol. 101:S223 (2011)

## Metamodels for scaling potato late blight risk analysis in climate change scenarios

A. H. Sparks, G. Forbes, R. Hijmans, K. Garrett

Phytopathology vol. 100:S121 (2010)

## Anticipating and responding to biological complexity in the effects of climate change on agriculture

K. Garrett, G. Forbes, S. Pande, S. Savary, A. Sparks, C. Valdivia, C. Vera Cruz, L. Willocquet

IOP Conference Series: Earth and Environmental Science vol. 6:37 (2009)

## Adapting disease forecasting models to coarser scales: Global potato late blight prediction

A. H. Sparks, G. Forbes, K. A. Garrett

Phytopathology vol. 99:S122 (2009)

## Adapting global disease forecasting models for readily available weather data sets in GIS

A. H. Sparks, K. A. Garrett, G. A. Forbes

Proceedings of the 10th International Epidemiology Workshop (2009). Geneva, NY, USA

## Regional predictions of potato late blight risk in a GIS incorporating disease resistance profiles, climate change, and risk neighborhoods

A. H. Sparks, R. Raymundo, R. Simon, G. Forbes, K. A. Garrett

Phytopathology vol. 98:S149 (2008)

## Book Chapters

### Chap. Spatial and temporal patterns of rice production

E. Kannan, A. Paliwal, A. Sparks

Mohanty, S., P. G. Chengappa, M. Hedge, J.K. Ladha, S. Baruah, E. Kannan, and A. V. Manjunatha, Elsevier, "Spatial and temporal patterns of rice production and productivity", 2017

### Chap. Plant pathogens as indicators for climate change

K. A. Garrett, M. Nita, E. D. DeWolf, P. D. Esker, L. Gomez-Montano, A. H. Sparks

Letcher, T. M., Elsevier, "Plant Pathogens as Indicators of Climate Change", 2016

### Chap. An introduction to key distributions and models for epidemiology using R

K. A. Garrett, P. D. Esker, A. H. Sparks

Stevenson, K. and M. Jeger, APS Press, Minneapolis, MN, "An introduction to key distributions and models in epidemiology using R", 2014

K. A. Garrett, G. A. Forbes, L. Gomez, M. A. Gonzales, M. Gray, P. Skelsey, A. H. Sparks  
Jimenez, E., Plural editores, "Cambio climatico, enfermedades de las plantas e insectos plaga", 2013

## Reports

Is rice improvement still making a difference? Assessing the economic, poverty and food security impacts of rice varieties released from 1989 to 2009 in Bangladesh, Indonesia and the Philippines.

D. A. Raitzer, A. H. Sparks, Z. Huelgas, R. Maligalig, Z. Balangue, C. Launio, A. Daradjat, H. U. Ahmed

*A report submitted to the Standing Panel on Impact Assessment (SPIA), CGIAR Independent Science and Partnership Council (ISPC). 128 pp.*

Evaluation of seed treatment for controlling seedling diseases and compatibility with Rhizobium inoculants, 2003.

L. J. Geisler, A. H. Sparks

*Fungicide and Nematicide Tests 59:ST025*

Evaluation of seed treatment fungicides for controlling soybean seedling diseases, 2003

L. J. Geisler, A. H. Sparks

*Fungicide and Nematicide Tests 59:ST025*

## Invited Talks

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

## Doctoral Dissertation Mentorship

Current	<b>Mladen Čučak</b> (Collaborator)	Maynooth University/TEAGASC, IRL
	Can we still use 'Irish Rules' to forecast development of potato late blight epidemics in Ireland?	
Current	<b>Charles T. Gray</b> (Collaborator)	La Trobe University, AUS
	Statistical Meta-research	
2016	<b>Sith Jaisong</b> (Principal Supervisor)	University of the Philippines, Los Baños, PHL
	Network analysis of rice crop health survey data for characterization of yield reducing factors of tropical rice ecosystems in south and southeast Asia	

## Master's Thesis Mentorship

2017	<b>Patrick Kiplimo Toroitich</b> (Collaborator)	Strathmore University, KEN
	A model for early detection of potato late blight disease: A case study in Nakuru County	
2016	<b>Jerico Bigornia</b> (Principal Supervisor)	University of the Philippines, Los Baños, PHL
	Environmental performance of water saving technologies for irrigated low-land rice production	

## Honours Thesis Mentorship

Current	<b>Tarynn Potter</b> (Associate Supervisor)	University of Southern Queensland, AUS
	A taxonomic revision of <i>Fusarium</i> spp. associated with sorghum in Queensland	

## Extramural Support

2019-2021	<b>GRDC Post-doctoral Fellowship Project USQ1903: A model for predicting chickpea ascochyta blight risk, Parent Project: DAW1810</b> PI: A. Sparks	AUD 510,800
2018-2021	<b>GRDC Research Project DAW1810: Disease epidemiology and management tools for Australian grain growers</b> Subcontract from DPIRD WA to USQ PI: A. Sparks	AUD 650,429
2018-2021	<b>RIRDC Project PRJ-010814: Northern rice Australia - Developing rice growing packages for tropical climates</b> PIs: G. Ash, K. Pembleton, A. Sparks	AUD 2,074,773
2017	<b>GRDC Research Project DAQ00186: Improving grower surveillance, management epidemiology knowledge and tools to manage crop disease</b> <b>1-Year Extension to Existing Project</b> PI: A. Sparks	AUD 1,237,992
2017	<b>USQ Research Infrastructure Program 2017</b> PIs: D. Adorada, A. Sparks, A. Young	AUD 25,000
2016-2019	<b>EPIC (Developing Ecologically-based Participatory IPM package for rice in Cambodia)</b> PIs: B. Hadi (IRRI), A. Sparks, V. Kumar (IRRI), A. Stuart (IRRI), R. Oliva (IRRI), I.R. Choi (IRRI)	USD 2.2 million
2016-2019	<b>Syngenta-IRRI Scientific Knowledge and Exchange Program</b> Phase III, Sub-Project 1 - Crop Health Management PI: A. Sparks (IRRI) and K. K. Fui (Syngenta)	USD 484,274
2015-2017	<b>Identifying resistant rice germplasm to false smut using combined screening approaches and understanding the mechanisms underlying rice resistance</b> Epidemiology and environmental characterisation of false smut, PIs: B. Zhou (IRRI), C. M. Vera Cruz (IRRI) and A. Sparks (IRRI)	USD 653,914
2013-2017	<b>PRISM (Philippine Rice Information System)</b> Component B - Crop Health Monitoring, PIs: A. Nelson (IRRI), A. Sparks (IRRI), G. S. Arida (PhilRice), E. J. P. Quilang (PhilRice)	USD 2.8 million
2013-2015	<b>Syngenta-IRRI Scientific Knowledge and Exchange Program</b> Phase II, Sub-Project 2 - Crop Health Management PI: A. Sparks (IRRI) and K. K. Fui (Syngenta)	USD 454,640

## Awards

2019	<b>Theo Murphy (Australia) Initiative for support for 'Re:produce - kick-off meeting of reproducible research network'</b> With R. Panczak (P.I.), P. Baker, F. Gacenga, R. King, L. Li, J. Lodge, C. Lim and N. Schnyder	AUD 17,000
2016	<b>GovHack 2016 First Place Award for Paddock to Plate Category, John Conner Hack</b> 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)

Australia New Zealand Open Research Network (ANZORN)

## Professional Service

2019–Present	<b>USQ Hacky Hour</b> Toowoomba, Qld, AUS	Helper for R Programming
2018–Present	<b>Open Plant Pathology</b> Global	Co-founder
2018–Present	<b>Tropical Plant Pathology</b> Global	Section Editor for Epidemiology
2018–Present	<b>USQ Athena SWAN (Scientific Women's Academic Network) SAGE (Science in Australia Gender Equality) Submission Committee</b> Toowoomba, Qld, AUS	Member
2016–Present	<b>USQ CCH Advisory Committee</b> Toowoomba, Qld, AUS	Member
2013–2015	<b>Manila (Philippines) R Users Group</b> Manila, PHL	Founding Member
2016–Present	<b>Australia National Plant Biosecurity Diagnostic Network</b> Toowoomba, Qld, Australia	Member
2016–Present	<b>ExtensionAUS Field Crop Diseases Community of Practice</b> Toowoomba, Qld, Australia	Member
2013–Present	<b>International Congress of Plant Pathology (ICPP) Epidemiology Committee</b> Global	Member
2018–Present	<b>International Congress of Plant Pathology (ICPP) Crop Loss Committee</b> Global	Member
2013–2015	<b>IRRI Crop and Environmental Sciences Division Seminar Series</b> Los Baños, Laguna, PHL	Coordinator
2013–2015	<b>IRRI One Corporate System (OCS) Advisory Committee</b> Los Baños, Laguna, PHL	Member
2013–2015	<b>IRRI National Employee Recognition Program Committee</b> Los Baños, Laguna, PHL	Member
2005–2007	<b>K-State Plant Pathology Webpage Advisory Committee</b> Manhattan, KS, USA	Member
2006–2007	<b>K-State Plant Pathology Graduate Student Club</b> Manhattan, KS, USA	President
2004–2009	<b>K-State Plant Pathology Graduate Student Club</b> Manhattan, KS, USA	Member
2004–2009	<b>K-State Agronomy Graduate Student Club</b> Manhattan, KS, USA	Member