

Vincent Ricciardi

Institute for Resources, Environment, and Sustainability

University of British Columbia

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EDUCATION

- 2015 – 2019 **PhD in Resource Management & Environmental Studies**
University of British Columbia
Title: Examining the contribution of small-scale farms to global food security and sustainable development
- 2012 – 2014 **MSc in Geography**
Pennsylvania State University
Title: Effects of modern crops on informal seed systems in Northern Ghana: A social network approach
- 2005 – 2009 **BA in Psychology** (Coursework in Environmental Studies), Kalamazoo College
2007 – 2008 **Field Program**, International Sustainable Development Institute, Thailand

SKILLS

- Computer** Matlab, Python, QGIS, R, SQL
- Technical** Dashboards (Plotly Dash, R Shiny), Data Harmonization, Data Visualization, Geographic Information Systems (GIS), Machine Learning, Meta-Analysis, Social Network Analysis, Spatial Analysis, Statistical Analysis
- Language** Thai (Proficient), Spanish (Beginner), Italian (Beginner)

RESEARCH EXPERIENCE

- 2018 – 2019 Research Associate, **CGIAR Platform for Big Data**, Global
Working Group: 'A Global baseline for data-driven agronomy interventions'
Co-generated a baseline for farmer access to cellphones and internet globally
- 2016 – 2017 Research Associate, **Aleph Policy Initiative**, Middle East
Automated web-scraping of news to identify conflicts across the Middle East
Streamlined spatial analysis of ethno-religious mapping throughout Syria
- 2014 – 2015 Consultant, **iDE (Intl. Development Enterprise)**, Cambodia & Vietnam
Conducted spatial analysis for irrigation and latrine supply chain distributions
Streamlined spatial analysis into global impact assessments

- 2015 Consultant, **ECHO Asia Impact Center**, Cambodia
Project Title: 'Connecting Seeds and Poverty Alleviation with Smallholders'
Led rapid rural appraisal to identify neglected and underutilized crop species
- 2014 Consultant, **Clinton Health Access Initiative (CHAI)**, Cambodia
Created malaria incidence maps over time to bolster regional planning
- 2012 – 2014 Research Associate, **USAID Subcontract**, Ghana
Project Title: 'Sustainable Technologies for Orange and Purple Sweet Potato'
Conducted spatial value chain analysis for Vitamin A Deficiency interventions
- 2012 – 2014 Research Associate, **USAID Subcontract**, Cambodia
Project Title: 'Innovation for Agricultural Training and Education (InnovATE)'
Conducted needs assessment for national agriculture training centers
- 2012 – 2014 Research Assistant, **Pennsylvania State University**, Ghana
Project Title: 'Climatic Extremes, Mining, and Mycobacterium Ulcerans'
Quantified qualitative data to model how land-use, climate, and disease
- 2010 – 2011 Consultant, **ECHO Asia Impact Center**, Thailand & Cambodia
Project Title: 'Strengthening Indigenous Informal Seed Systems'
Led crop seed vigor/germination trials and seed system assessment
- 2007 Research Assistant, **Massachusetts Institute of Technology**, Cambridge, MA
Supported Gabrieli Cognitive and Affective Neuroscience Lab rtfMRI studies

TEACHING EXPERIENCE / LECTURES

- 2018 Lecture, **United Nations Food and Agricultural Organization**, Santiago, Chile
How much food do smallholders produce?
- 2016 Workshop, **World Resource Institute**, Washington, DC
Social network analysis: a primer
- 2016 Teaching Assistant, **University of British Columbia**, Vancouver, BC, Canada
Analytic Methods in Sustainability Science ENVR 440
- 2015 Workshop, **American University**, Phnom Penh, Cambodia
Geographic Information Systems (GIS) Technical Workshop
- 2015 Workshop, **iDE (Intl. Development Enterprise)**, Phnom Penh, Cambodia
Geographic Information Systems (GIS) Technical Workshop

- 2012 Teaching Assistant, **Pennsylvania State University**, State College, PA
Human/Environment Geography GEOG 30
- 2010 Lecture, **ECHO Asia Impact Center**, Chiang Mai, Thailand
Small-Scale Biofuel Production in Southeast Asia

SELECTED AWARDS

2018	Graduate Student Travel Award , University of British Columbia	500 CAD
2018	IRES Student Travel Award , University of British Columbia	500 CAD
2017	Public Scholar Research Fellow , University of British Columbia	7k CAD
2016	Liu Doctoral Scholar , University of British Columbia	
2015	Four Year Doctoral Fellowship , University of British Columbia	94k CAD
2015	International Tuition Award , University of British Columbia	13k CAD
2015	Faculty of Science Graduate Award , University of British Columbia	5k CAD
2013	Indigenous Knowledge Research Grant , Pennsylvania State University	2k USD
2013	Africana Research Center Grant , Pennsylvania State University	2k USD
2009	Senior Leadership Recognition Award , Kalamazoo College	
2007	Sharing Time and Resources Award , Kalamazoo Michigan City Council	
2006	LaPlante Scholar for Leadership in Civic Engagement , Kalamazoo College	

PUBLICATIONS

Articles in Refereed Journals

1. McDowell, G., Huggle, C., Frey, H., Wang, F., **Ricciardi**, V., Cramer, K. 2018. Adaptation action and research in glaciated mountain systems: Are they enough to meet the challenge of climate change? *Global Environmental Change*. *In Press*.
2. **Ricciardi**, V., Ramankutty, N., Mehrabi, Z., Jarvis, L., Chookolingo, B. 2018. How much of our world's food do smallholders produce? *Global Food Security*, 17: 64-72.
3. **Ricciardi**, V., Ramankutty, N., Mehrabi, Z., Jarvis, L., Chookolingo, B. 2018. An open-access dataset of crop production by farm size from agricultural censuses and surveys. *Data in Brief*, 19: 1970-1988.
4. Cohn, A., Newton, P., Gil, J., Kuhl, L., Samberg, L., **Ricciardi**, V., Manly, J. R., and Northrop, S. 2017. Smallholder agriculture and climate change. *Annual Review of Environment and Resources*, 42(1).
5. Glenna, L., Borlu, Y., Gill, T., Larson, J., **Ricciardi**, V., Adam, R. 2017. Food security, sweet potato production, and proximity to markets in northern Ghana. *FACETS*, 2(2): 919-936.
6. Gill, T. B., **Ricciardi**, V., Bates, R., James, D. 2017. Capacity development in agricultural education and training in Cambodia: a SWOT analysis. *The Journal of Agricultural Education and Extension*, 24(1): 34-51.

7. Tschakert, P., **Ricciardi**, V., Machado, M., Ferring, D., Smithwick, E. Hausermann, H., Parker, E. 2016. Situated knowledge of pathogenic landscapes in Ghana: understanding the emergence of Buruli ulcer through qualitative analysis. *Social Science and Medicine*, (150): 170-171.
8. **Ricciardi**, V. 2015. Homophily as a safety net: investigating when smallholder farmers decide to buy hybrid seed in northern Ghana. *IK: Other Ways of Knowing*, 1(2): 65-97.
9. **Ricciardi**, V. 2015. Social seed networks: identifying central farmers for equitable seed access. *Agri. Systems*, 139: 110-121.
10. Wu, J., Tschakert, P., Klutse, E., Ferring, D., **Ricciardi**, V., Hausermann, H., Oppong, J., Smithwick, E. A. 2015. Buruli ulcer disease and its association with land cover in southwestern Ghana. *PLoS Neglected Tropical Diseases*, 9(6), e0003840.
11. Gill, T. B., Bates, R., Bicksler, A., Burnette, R., **Ricciardi**, V., Yoder, L. 2013. Strengthening informal seed systems to enhance food security in Southeast Asia. *Journal of Agriculture, Food Systems, and Community Development*, 3(3): 139-153.
12. Bates, R., Gill, T. B., Bicksler, A., Yoder, L., Burnette, R., **Ricciardi**, V. 2013. Designing strategies and systems to identify, preserve and promote underutilized indigenous crop species. *Acta Horticulturae*, 979: 569-576.
13. Bicksler, A., Bates, R., Burnette, R., Gill, T. B., Yoder, L., **Ricciardi**, V., Srigiofun, Y. 2012. Methodologies for strengthening informal indigenous vegetable seed systems in Northern Thailand and Cambodia. *Acta Horticulturae*, 958: 67-74.

Articles in Progress

1. **Ricciardi**, V., Ramankutty, N., Mehrabi, Z., Wittman, H., James, D. Smaller farms are consistently higher yielding and biodiverse than large farms: A meta-analysis. Expected submission: January 2019.
2. Mehrabi, Z., **Ricciardi**, V., McDowell, M. A global baseline for data-driven agronomy interventions. Expected submission: January 2019.
3. Levers, C., Mehrabi, Z., **Ricciardi**, V., Ramankutty, N. What is the relationship between farm size and resource-use intensity globally? Expected submission: March 2019.
4. **Ricciardi**, V., Conforti, P., Ramankutty, N. What are smallholders' largest expenses? Evidence from 37 countries. Expected submission: May 2019.

Non-Refereed Publications and Reports to Sponsors

1. **Ricciardi**, V. 2015. Project documentation report: scaling-up productive water through micro-irrigation technologies. iDE Vietnam. Project supported by the Swiss Agency for Development & Cooperation (SDC).

2. **Ricciardi, V.** 2015. Latrine business owners to customer sales network in rural Cambodia: 2012-2014; supply chain management geographical atlas. iDE Sanitation Marketing Scale-Up (SMSU) 2.0. Project supported by the World Bank's Water and Sanitation Program (WSP).
3. **Ricciardi, V.** 2015. Toilet sales and access to sanitation in rural Cambodia; geographical atlas. iDE Sanitation Marketing Scale-Up (SMSU) 1.0. Project supported by the World Bank's Water and Sanitation Program (WSP).
4. **Ricciardi, V., R. Bates, T. Gill.** 2014. Report for InnovATE scoping visit, Cambodia. InnoVATe project supported by the United States Agency for International Development (USAID).
5. **Ricciardi, V., Borlu, Y., Gill, T.** 2014. Fact-sheet: Sweet potato seed system in northern Ghana. Sustainable Technology for Orange and Purple Sweet potato (STOPS) in Ghana supported by the United States Agency for International Development (USAID).
6. Borlu, Y., **Ricciardi, V.** 2014. Fact-sheet: Perceptions and attitudes towards sweet potatoes in northern Ghana. Sustainable Technology for Orange and Purple Sweet potato (STOPS) in Ghana supported by the United States Agency for International Development (USAID).
7. Meitzner Yoder, L., **Ricciardi, V.** January 2012. Seed fairs: Fostering local seed exchange to support regional biodiversity. Echo Asia Notes.
8. Bicksler, A., Burnette, R., **Ricciardi, V.** Bell, M., Shapland, P. 2011. Seed germination cabinet. Strengthening Indigenous Informal Seed Systems in Southeast Asia project supported by the United States Agency for International Development (USAID).

CONFERENCE PRESENTATIONS

1. **Ricciardi, V.** 2018. Panel Discussant. Bridging law and science in the right to food. American University Washington College of Law, Washington, DC.
2. McDowell, G., Huggel, C., Frey, H., Wang, F., Cramer, K., **Ricciardi, V.** 2018. Adaptation and the challenge of climate Change in Glaciated Mountain Regions: A Global Progress Report. World Mountain Forum. Bishkek, Kyrgyzstan.
3. **Ricciardi, V., Ramankutty, N., Mehrabi, Z., Wittman, H., James, D.** 2018. Systematic review: transition in global farm Size. SESYNC Boundary Spanning Symposium. Annapolis, MD, USA.
4. **Ricciardi, V., Ramankutty, N., Mehrabi, Z., Jarvis, L., Chookolingo, B.** 2017. How much of our world's food do smallholders produce? Third International Conference on Global Food Security. Cape Town, South Africa.
5. **Ricciardi, V., Ramankutty, N.** 2016. Yield stability and farm size: investigating 40 years of variability in India's rice production. Global Land Project. Beijing, China.

6. **Ricciardi, V.** 2016. Commentator. Workshop on Innovation, Precaution, and Sustainability. W. Maurice Young Centre for Applied Ethics: University of British Columbia. Vancouver, BC, Canada.
7. **Ricciardi, V.** 2016. Is crop production of India's small farms more stable than large farms in response to climate variability? Association of American Geographers Annual Conference. San Francisco, CA, USA.
8. Larson, J., Gill, T., Borlu, Y., **Ricciardi, V.**, Martey, E. 2014. STOPS: Sustainable Technologies for Orange and Purple Sweet Potatoes in Ghana. Annual United States Agency for International Development (USAID) Innovation Lab Meeting. Tegucigalpa, Honduras.
9. **Ricciardi, V.** 2014. Effects of crop introduction on informal seed systems in Northern Ghana: a social network approach. Association of American Geographers Annual Conference. Tampa, Florida, USA.
10. **Ricciardi, V.** 2014. Effects of commercial crop introduction on informal seed systems: Northern Ghana. Inter-institutional Consortium of Indigenous Knowledge. State College, PA, USA.
11. **Ricciardi, V.** 2013. Agrobiodiversity conservation and food security in West Africa: Can we have both? International Agricultural Speaker Series, Pennsylvania State University. State College, PA, USA.