

December 2018

MYWISH K. MAREZIA

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U.S.A.

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EDUCATION:

Ph.D. (1993) Agricultural Economics, Michigan State University, East Lansing.

M.A. (1986) Economics, University of Bombay, Bombay, India.

B.A. (1984) Economics, University of Bombay, Bombay, India.

WORK EXPERIENCE:

Professor (2014- Present) and Associate Professor (2008–2014), International Development

Department of Agricultural, Food and Resource Economics, Michigan State University, East Lansing

--Principal Investigator of several impact evaluation research projects in Africa, Central America, Central Asia, South and Southeast Asia. Current/recent research focuses on innovative methods for tracking technology adoption in developing countries, varietal adoption using DNA fingerprinting, farmers' willingness to pay for quality seeds, seed policies related to vegetatively propagated crops, impact evaluation of orange fleshed sweet potato scaling up project in Rwanda, impact evaluation of village based agro-advisor model of extension in Tanzania, assessment of the economic impacts of land tenure and titling projects by Millennium Challenge Corporation (MCC) in Mozambique and Lesotho, impact evaluation of Feed the Future (FTF) development projects in Senegal, Malawi and Cambodia, impact assessment of the adoption of improved pulse crop technologies in Central America and West Africa, assessment of impacts of integrated pest management technologies in Burkina Faso and Tajikistan, and evaluation of the information and communications technology (ICT) based extension systems in Burkina Faso.

Director (2016-Present)

Feed the Future (FTF) Innovation Lab for Food Security Policy (FSP)

Provide management and technical leadership to ~\$3 million/year core support from USAID and work in partnership with the International Food Policy Research Institute in Washington, D.C., and the University of Pretoria in South Africa to help USAID-supported FTF countries in Africa and Asia to fight hunger, reduce poverty and improve nutritional outcomes through better food policy. Provide oversight and management support to additional \$45 million funding support received through buy-ins and Associate Awards to implement more intensive country-level programs in selected FTF countries.

Associate Director (2000–2009) – 50-80% appointment

Bean/Cowpea (later Dry Grain Pulses) Collaborative Research Support Program (CRSP),
Institute of International Agriculture, Michigan State University, East Lansing

Assist the Director of the program in the management of a \$3 million/year grant from USAID to promote collaboration between U.S. universities and developing country institutions to conduct research and training on bean/cowpea value chains; Share the responsibility for providing technical leadership to the program; Provide leadership in

managing the training and capacity building portfolio and program monitoring and evaluation.

Adjunct Visiting Associate Professor (2000–2007); Adjunct Assistant Professor (1999–2000)

Department of Agricultural Economics, Michigan State University, East Lansing

Research Areas: Impact assessment of agricultural research and training; Economics of agricultural biotechnology and policies (i.e., Intellectual Property Rights and biosafety); Economics of seed system development and seed regulatory policies in developing countries (in collaboration with the Food Security II project team).

Visiting Assistant Professor (1995–1998) – 25-75% appointment

Department of Agricultural Economics, Michigan State University, East Lansing (worked as part of the Food Security II project team)

Visiting Assistant Professor (June–December 1994)

Institute of International Agriculture, Michigan State University, East Lansing.

Associate Scientist (September 1993–May 1994)

Economics Program, International Maize and Wheat Improvement Center (CIMMYT), Mexico.

Graduate Research Assistant (June 1989–May 1993)

Department of Agricultural Economics, Michigan State University, East Lansing

Summer Assistant (June–September 1990)

Latin America and the Caribbean Country II Department, Agriculture Operations Division, The World Bank, Washington, D.C.

Research Assistant (January 1988– February 1989)

Economics Program, International Maize and Wheat Improvement Center (CIMMYT), Mexico

PROFESSIONAL SERVICE:

2016-present: Co-Leader, Cluster 1.2 on science policy and innovation systems for sustainable intensification, CGIAR Research Program on Policies, Institutions and Markets (PIM)

2012-2013: Guest co-editor of *Food Policy* for a special issue focused on impact assessment of agricultural research and technology adoption

2005-present: Reviewer for World Development, Agricultural Economics, Food Policy, Journal of Agricultural Economics, Journal of Agrarian Studies, and Research Evaluation

2012: Reviewer for the AAEA Annual Meeting Contribution Papers

2012-2013: Member, Technical and Management Advisory Committee (TMAC), Dry Grain Pulses CRSP and the Feed the Future Legume Innovation Lab

2006–2011: Member, Standing Panel on Impact Assessment (SPIA), Science Council, CGIAR. Assist the Science Council in providing timely and credible information of the impacts of the CGIAR outputs in terms of broader developmental goals.

2009-2011: Member, Project Steering Committee, Diffusion and Impact of Improved Varieties in Africa (DIIVA), a project funded by the Gates Foundation and managed by Bioversity International.

HONORS:

1994: Outstanding Dissertation Award. American Agricultural Economics Association.

1993: Best Ph.D. Dissertation Award. Department of Agricultural Economics, Michigan State University.

1992-93: Pre-Doctoral Research Fellowship. International Maize and Wheat Improvement Center (CIMMYT), Mexico.

GRANTS RECEIVED: (*=as a Lead PI)

(Total personal contribution realized to date: \$14.49 million)

2018: Global Alliance for Improved Nutrition (GAIN) – US\$1,149,478. Evaluation of GAIN’s Marketplace for Nutritious Foods (MNF) (with D. Tschirley, M. Porter, E. Nakasone, D. Ortega, V. Caputo, T. Reardon).

*CGIAR program on Policy, Institutions, and Markets, IFPRI – US\$100,000 PIM Research Cluster on Science policy and innovation systems for sustainable intensification

2017: *CGIAR program on Policy, Institutions, and Markets, IFPRI – US\$60,000 PIM Research Cluster on Science policy and innovation systems for sustainable intensification
Master Card Foundation – US\$ 12,994,728 Agrifood Youth Opportunity Lab (with J. Howard, S. Adelaja, D. Tschirley and N. MeNsope)

2016: *International Center for Tropical Agriculture (CIAT) – US\$50,600 Assessing the adoption and economic and environmental impacts of Brachiaria grass forage cultivars in Latin America focusing on the experience in Colombia

*USDA-FAS—US\$48,851. Borlaug fellows program (hosting a CIAT-Vietnam staff) (with X. Wu)

2015: *Food and Agriculture Organization (FAO) – US\$649,550. Strengthening Impact Assessment in CGIAR (SIAC) – Phase 2 (with D. Boughton)

2014: *International Potato Center (CIP) – US\$1.5 million: Impact Evaluation of the CIP-SUSTAIN project in East/Southern Africa (with S. Jin, M. Porter and K. Chung)

*USAID/Malawi via CIAT—US \$274,000: USAID Initiative for Long-term Training and Capacity Building (UILTCB) (with I. Widders and C. Wille)

2013: USAID -- US\$15+ million: Food Security Policy Innovation Lab (with D. Boughton, E. Crawford, S. Longabaugh, T. Jayne, S. Haggblade, D. Tschirley, V. Theriault)

*CGIAR Consortium – US\$3.1 million: Strengthening Impact Assessment in CGIAR (SIAC) – Phase I (with D. Boughton)

*Legume Innovation Lab Collaborative Research (USAID)—US\$900,000. Impact assessment of the adoption and uptake of technologies and outputs of Legume Innovation Lab research in Africa, Latin America and the U.S. (with E. Crawford)

*USAID/Malawi via CIAT—US \$475,792: USAID Initiative for Long-term Training and Capacity Building (UILTCB) (with I. Widders)

2012: USAID via CIMMYT – US \$3.8 million initial commitment: Borlaug Higher Education for Agricultural Research and Development (BHEARD) (with E. Crawford, F. Derksen, P. Ng and D. Douches)

USAID/Cambodia – US\$ 2 million (total budget): Impact Evaluation and Strengthening Local Capacity to Monitor and Evaluate Food Security Programs in Cambodia (with M. Suvedi, D. Boughton, R. Benfica, V. Theriault, K. Chung, R. Richardson and M. Kaplowitz)

*USAID/Malawi via CIAT—US \$474,169: USAID Initiative for Long-term Training and Capacity Building (UILTCB) (with I. Widders)

DAI, Inc. – US\$ 564,397 (total budget): Integrating Nutrition with Value Chain (INVC) (with D. Clay, M. Suvedi, A. Ferguson and L. Weatherspoon)

2011: *CLUSA (dba NCBA)—US\$529,000 (total budget): Impact evaluation of Yaajeende agricultural development project in Senegal (funded by USAID/Senegal) (with V. Kelly)

- Millenium Challenge Corporation (MCC)—US\$ 785,949 (total award across several allocations): Impact evaluation of MCA interventions on land titling in Lesotho—Phase II (implementation) (with G. Schultink and S. Jin)
- Millennium Challenge Corporation (MCC)—US \$ 639,876 (total award across several allocations): Impact evaluation of the land component of the MCC project in Mozambique (with G. Schultink and S. Jin)
- *USAID/Malawi via CIAT—US \$474,169: USAID Initiative for Long-term Training and Capacity Building (UILTCB) (with I. Widders)
- University of Florida—US\$1,024,989 (total budget): Technical assistance and impact evaluation partner for the USAID food security project under the Trilateral project—USAID, Brazil and Mozambique (with D. Tschirley, S. Jin and C. Donovan)
- 2010: Millenium Challenge Corporation (MCC)—US\$26,000: Impact evaluation of MCA interventions on land titling in Lesotho—Phase I (design mission) (with G. Schultink and S. Jin)
- *Dry Grain Pulses (USAID)—US\$221,434 (total award to date): Monitoring and evaluation of a bean technology transfer project in Central America.
- *Horticulture CRSP (USAID)—US\$74,900: Impact evaluation of cell-phone enabled agro-advisory services for horticulture crops in South Asia
- Sarl Bureau Issala (France)—US \$32,412: ECOWAP/CAADP Process: Supporting ECOWAS Commission for Implementation of Regional Mobilizing Programs and developing a monitoring and evaluation framework (with J. Staatz and N. Dembele)
- 2009: *USAID/Malawi via CIAT—US \$950,000: USAID Initiative for Long-term Training and Capacity Building (UILTCB) (with I. Widders)
- *Dry Grain Pulses CRSP (USAID)—US \$510,000 (total budget): Impact assessment of CRSP technologies and outputs in Africa, Latin America and the U.S. (with R. Bernsten and E. Crawford)
- *IFPRI —US\$ 7,500: Contribute a chapter on the evolution of impact assessment methods for the book on Millions Fed project
- 2008: Millennium Challenge Corporation (MCC)—US \$782,000 (total award across several allocations): Impact evaluation of the land component of the MCC project in Mozambique (with G. Schultink, S. Jin, D. Boughton and C. Donovan)
- 2006: *USAID/EGAT via CIAT—US \$617,500: Initiative for Long-term Training and Capacity Building (UILTCB) (with I. Widders)
- 2005: *USAID/EGAT via CIAT—US \$1,200,000: USAID Initiative for Long-term Training and Capacity Building (UILTCB) (with I. Widders)
- 2004: USDA—US \$68,855: Impact assessment of ABSP-I IPR and technology transfer activities (with K. Maredia and J. Oehmke)

GRADUATE STUDENT ADVISORY COMMITTEES (ROLE SERVED)

(*=**Research Assistantship supervisor**)

Ph.D. Agricultural, Food, and Resource Economics:

Byron Reyes (member)	Grad: 2012
Alexandra Peralta (member)	Grad: 2014
Ayala Wineman (member)	Grad: 2015
Keneilwe Kgosikoma (member)	Grad: 2016
*Serge Adjognon (Temp Advisor and member)	Grad: 2016
Ashesh Prasann (member)	Grad: 2016
*Nelissa Jamora (Major Advisor)	Transferred to another University (2011)
*Mukesh Ray (Major Advisor)	Grad 2018
*Jarrad Farris (Major Advisor)	Expected Grad 2020

M.S. Agricultural, Food, and Resource Economics:

Lourdes Martinez (member)	Grad: 2003
Wolfgang Pejuan (member)	Grad: 2005
Nelissa Jamora (member)	Grad: 2006
Tomokazu Nagai (member)	Grad: 2008
Byron Reyes (member)	Grad: 2011
*Sitou Akibode (Major Advisor)	Grad: 2011
*Ty Lawson (Major Advisor)	Grad: 2012
*Benjamin Magen (member)	Grad: 2012
*David DeYoung (Major Advisor)	Grad: 2015
Emmanuel Msanya (member)	Grad: 2016
*Chris Root (Major Advisor)	Grad: 2017
Edward Opoku (Major Advisor)	Grad: 2017
*Christine Sauer (Temp Major Advisor)	Transferred to AFRE PhD (Fall 2016)
Trhas Weldezwi (Major Advisor)	Grad: 2018
*Brian Bartle (Major Advisor)	Expected Grad: 2019
*Sean Posey (Major Advisor)	Grad: 2018
Stephen Aguegboh (Major Advisor)	Expected Grad: 2019
*Myat Thida Win (Major Advisor)	Expected Grad: 2019

Other MSU Departments:

*Raul Pitoro (Ph.D., CSUS) (member)	Grad: 2016
Cynthia Balthazar (Ph.D. CSUS) (member)	Expected Grad: 2019
Grady Zuiverdeen (M.S., Plant, Soil and Microbial Sciences) (member)	Grad: 2015
Thany Hour (M.S., CSUS) (member)	Grad: 2016
Socheat Keo (Ph.D., CSUS) (member)	Grad: 2018

GRADUATE RESEARCH ASSISTANTS SUPERVISED (in addition to advisees above)

Syed Hamza Haider (AFRE PhD student—Fall 2013-Summer 2014)
Carolina Peters (AFRE MS student—Fall 2014-Summer 2016)
Simone Faas (AFRE MS student—Spring 2015-Fall 2015)
Henry Akaezy (AFRE PhD student—Spring 2013-Fall 2013)

SPECIAL CONSULTATIONS:

August-October 2009: Asian Development Bank

October 2008—June 2009: The Independent Evaluation Group (IEG) of the World Bank.

May-December 2005: Standing Panel on Impact Assessment (SPIA), Science Council, CGIAR.

July 1999-December 2000: United Nations Development Program (UNDP) funded project monitored by the CGIAR-TAC's Standing Panel for Impact Assessment (SPIA).

May-June 2000: Food Security II Project, Dept. of Agricultural Economics, MSU.

October 1999-April 2000: World Intellectual Property Organization (WIPO).

May-June 1999: The World Bank, Washington, D.C.

November - December 1998: The World Bank, Washington, D.C.

June 1998: Food and Agricultural Organization (FAO) of the United Nations, Rome.

September - November 1996: SPAAR, The World Bank, Washington, D.C.

February - October 1995: International Maize and Wheat Improvement Center (CIMMYT), Mexico.

PUBLICATIONS:

Journal Articles

Sauer, C., Mason, N., Maredia, M., and Mofya-Mukaka, R. 2018. Does adopting legume-based cropping practices improve small-scale farm households' food security? Panel survey evidence from Zambia. *Food Security* (November) <https://doi.org/10.1007/s12571-018-0859-3>. .

Maredia, M. K., Reyes, B. A., Ba, M., Dabire, C., Pittendrigh, B., & Bello-Bravo, J. 2017. Can mobile phone-based animated videos induce learning and technology adoption among low-literate farmers? A field experiment in Burkina Faso. *Information Technology and Development* (April) DOI <https://doi.org/10.1080/02681102.2017.1312245>

Rabbi Ismail, Kulakow Peter, Manu-Aduening Joseph, Dankyi Ansong, Asibuo James, Parkes Elizabeth, Abdoulaye Tahirou, Girma Gezahegn, Gedil Melaku, Ramu Punna, Reyes Byron, Maredia Mywish. 2015. Tracking crop varieties using genotyping-by-sequencing markers: a case study using cassava (*Manihot esculenta* Crantz). *BMC Genetics* 16:115. DOI 10.1186/s12863-015-0273-1

Maredia, M., Shankar, B., Kelley, T., and Stevenson, J., 2014. Impact Assessment of Agricultural Research, Institutional Innovation, and Technology Adoption: Introduction to the Special Section. *Food Policy* 44:214-217.

Kumar, S., M. Maredia, and S. Chauhan. 2013. Research Priorities for Faster, Sustainable and Inclusive Growth in Indian Agriculture. *Indian Journal of Agricultural Economics* 68 (3): 373-388.

Stevenson, J., D. Byerlee, N. Villorio, T. Kelley and M. Maredia. 2013. The Green Revolution saved an estimated 18 to 27 million hectares from being brought into agricultural production. *PNAS - Proceedings of the National Academy of Sciences of the United States*. 110 (21): 8363-8368. Published online, May 13, 2013, doi: 10.1073/pnas.1208065110.

Bennett, J., T. Kelley and M. Maredia. 2012. *Ex-post* assessment of environmental impacts of international agricultural research: conceptual issues, applications and the way forward. *Research Evaluation* 21 (3): 216-228

Maredia, M.K. and D. Raitzer. 2012. Review and Analysis of Documented Trends and Patterns of Agricultural Research Impacts in Southeast Asia. *Agricultural Systems* (106): 46-58.

Raitzer, D. and M. K. Maredia. 2012. Analysis of agricultural research investment priorities for sustainable poverty reduction in Southeast Asia. *Food Policy* 37 (2012):412-426.

Maredia, Mywish, Richard H. Bernsten, Catherine Ragasa. 2010. Returns to Public Sector Plant Breeding in the Presence of Spill-ins and Private Goods: The Case of Bean Research in Michigan. *Agricultural Economics* 41 (2010): 425-442.

Maredia, M.K. and David Raitzer. 2010. Estimating Overall Returns to International Agricultural Research in Africa through Benefit-Cost Analysis: A 'Best-Evidence' Approach. *Agricultural Economics* 41 (2010): 81-100.

Nelson, M. and M. Maredia. 2007. International Agricultural Research as a Source of Environmental Impacts: Challenges and Possibilities. *Journal of Environmental Assessment Policy and Management*, Vol. 9, No. 1 (2007) 103-119.

Oehmke, J., M. Maredia and D. Weatherspoon. 2001. The Effects of Biotechnology Policy on Trade and Growth. *The Estey Centre Journal of International Law and Trade Policy* 2(2), 283-306. Available from the World Wide Web: <http://www.esteyjournal.com>

Maredia, M.K., D. Byerlee, and P. Pee. 2000. Impacts of Food Crop Improvement Research: Evidence from Sub-Saharan Africa. *Food Policy* 25(5): 531-559.

Oehmke, J. F., D. Weatherspoon, C. A. Wolf, A. Naseem, M. Maredia and A. Hightower. 2000. Is Agricultural Research Still A Public Good? *Agribusiness: An International Journal* 16(1): 68-81.

Maredia, M.K. and D. Byerlee. 2000. Efficiency of Research Investments in the Presence of International Spillovers: A Case Study of Wheat Research. *Agricultural Economics* 22 (2000):1-16

Maredia, M.K., F. Erbisch, A. Naseem, A. Hightower, J. Oehmke, D. Weatherspoon, C. Wolf. 1999. "Public Agricultural Research and the Protection of Intellectual Property: Issues and Options" *AgBioForum*. vol 2, No. 3&4. URL: <http://www.agbioforum.org>.

Maredia, M.K. 1998. The Economics of Biosafety: Implications for Biotechnology in Developing Countries. *BioSafety (Online Journal)*_Vol. 3 Paper 1 (BY98001). URL: <http://www.bdt.org.br/bioline/by>

Maredia, M.K., Ward, R. and Byerlee, D. 1996. Econometric Estimation of a Global Spillover Matrix for Wheat Varietal Technology. *Agricultural Economics*, 14(3):159-173

Maredia, M.K. and Eicher, C.K. 1995. The Economics of Wheat Research Investments in Developing Countries: The One Hundred Million Dollar Puzzle. *World Development*, 23 (3).

Papers submitted to journals

Maredia, M. K., Reyes, B. A., Manu-Aduening, J. A., Dankyi, A. A., Hamazakaza, P., Muimui, K., Rabbi, I., Kulakow, P., Parkes, E., Abdoulaye, T., Katungi, E., & Raatz, B. (2018). Are we accurately measuring varietal adoption using farmer surveys? Evidence from DNA Fingerprinting. (Review and Resubmit: *Experimental Agriculture*)

Maredia, M. K., Robert Shupp, Edward Opoku, Fulgence Mishili, Byron Reyes, Paul Kusolwa, Francis Kusi, and Abdul Kudra. (2018) Do farmers value seeds of different quality differently? Evidence from willingness to pay experiments in Tanzania and Ghana. (Review and Resubmit—*Agricultural Economics*)

Papers in progress

Ahsanuzzaman and M. Maredia. 2018. Why it takes ten years for Indonesian farmers to adopt new rice varieties? Re-examining an old question using multi-process hazard models.

Maredia, M., Shupp, R., MeNsope, N., D. Ilboudo, and E. Opoku. 2018. Farmers' willingness to pay for quality seed: What role does credence, experience, and observation play?

MeNsope, N., Maredia, M., Ortega, D., and Ilboudo, D. 2018. Farmers' preferences for chemical versus biological pest control methods: Evidence from choice experiments conducted in Burkina Faso.

Farris, J., S. Jin, M. Maredia, and M. Porter. 2018. Assessing Heterogeneity in the Child Growth Impacts of In-Utero Rainfall Shocks in Rural Rwanda.

Morgan, S., N. Mason, and M. Maredia. 2018. Farmer Valuation of Improved Bean Seed Technologies: Real Auction Evidence from Tanzania.

Ray, M., Maredia, M., and R. Shupp. 2018. Risk Preferences and Climate Smart Technology Adoption: A Duration Model Approach for India.

Ray, M. and Maredia M. 2018. Do Smaller States Lead to More Development? Evidence from Splitting of Large States in India.

Ray, M. and Maredia M. 2018. Legume Technologies as a Sustainable Solution to Climatic Shocks: Evidence from Malawi.

DeYoung, D., B. Reyes, and M. Maredia. 2018. Profitable but Vulnerable: Assessment of the Nicaraguan Bean Seed Enterprises Using Duration Analysis.

Root, C. and M. Maredia. 2017. Testing the Local Enumerator Approach for Farm Level Data collection: The Case of Natural Resource Management Technology Adoption in India

Edited Chapter Book/ Research Report

Maredia, M.K. and D. Byerlee (editors). 1999. *The Global Wheat Improvement System: Prospects for Enhancing Efficiency in the Presence of Spillovers*. CIMMYT Research Report No. 5, Mexico, D.F.: CIMMYT. **This report contains 11 chapters, 7 of them are co-authored by M. Maredia** (as listed below).

Maredia, M. K. and D. Byerlee. 1999. Introduction, Chapter 1, pp. 1-3.

Maredia, M. K. and R. Ward. 1999. Wheat Breeding Environments: A Conceptual and Empirical Analysis. Chapter 3, pp. 12-21.

Maredia, M. K., R. Ward, and D. Byerlee. 1999. Assessing Potential International Transferability of Wheat Varieties. Chapter 4, pp. 22-35.

Bohn, A., D. Byerlee, and M. K. Maredia. 1999. Investment in Wheat Improvement Research in Developing Countries. Chapter 5, pp. 36-45.

Byerlee, D. and M. K. Maredia. 1999. Measures of Technical Efficiency of National and International Wheat Research Systems. Chapter 7, pp-60-68

Maredia, M.K. and D. Byerlee. 1999. Efficiency of Wheat Improvement Research Investments in the Presence of Spillovers. Chapter 8, pp. 69-84

Maredia, M.K. and D. Byerlee. 1999. Toward Efficient Allocation of Research Resources in the Presence of Spillovers: Lessons from Wheat Improvement Research. Chapter 11, pp. 118-130.

Monographs/Book Chapters (peer reviewed)

Stevenson, J., D. Byerlee, N. Villorio, T. Kelley and M. Maredia. 2011. Agricultural technology, global land use and deforestation: a review and new estimates of the impact of crop research. In *Measuring the Environmental Impacts of Agricultural Research: Theory and Applications to CGIAR Research*. Independent Science and Partnership Council Secretariat: Rome, Italy.

<http://impact.cgiar.org/sites/default/files/images/EIAStudy2011.pdf>

Maredia, M.K. 2010. Impacts of Agricultural Development on Food Security Goals: Methods, Approaches, and Best Practices for Improving the Proof. In: Spielman, David, J. and Rajul Pandya-Lorch.(eds.) "*Proven successes in agricultural development: a technical compendium to Millions Fed,*" IFPRI: Washington, D.C., pp 575-600.

Maredia, M.K. 2009. Improving the proof: Evolution of and emerging trends in impact assessment methods and approaches in agricultural development. IFPRI Discussion Paper 00929. Washington, D.C.: IFPRI.

T. Walker, M. Maredia, T. Kelley, R. La Rovere, D. Templeton, G. Thiele, and B. Douthwaite. 2008. *Strategic Guidance for Ex Post Impact Assessment of Agricultural Research*. Rome, Italy: Science Council Secretariat, FAO.

Maredia, M.K. and David Raitzer. 2006. *CGIAR and NARS Partner Research in Africa: Evidence of Impact To-date*. Rome, Italy: Science Council Secretariat, FAO.

Bernsten, R.H., C. Ragasa, and M. Maredia. 2006. The Impact of Common Bean Research in Michigan. Annual Report of Bean Improvement Cooperative. 49: 227-228

Maredia, M.K. 2004. Assessing the costs and benefits of seed policy liberalization and harmonization: concepts, evidence and methods. In: D. Rohrbach and J. Howard (eds) "Seed Trade Liberalization in Sub-Saharan Africa" Bulawayo, Zimbabwe: ICRISAT

Maredia, M.K., D. D. Rohrbach, and M. A. Mgonja. 2004. Justification for regionalized plant breeding and variety registration. In: D. Rohrbach and J. Howard (eds) "Seed Trade Liberalization in Sub-Saharan Africa" Bulawayo, Zimbabwe: ICRISAT

Maredia, M., J. Oehmke, D. Byerlee. 2004. Economic Aspects of Intellectual Property Rights in Agricultural Biotechnology. In: F.H.Erbisch and K.M.Maredia (eds.) "Intellectual Property Rights in Agricultural Biotechnology" Wallington: CAB International.

Maredia, M. and I. Minde. 2002. Technology Profitability and Agricultural Transformation: Concepts and Evidence. In: T.S. Jayne, I.J. Minde and G. Argwings-Kodhek (eds.) "Perspectives on Agricultural Transformation: A View from Africa". New York: Nova Science Publishers.

Maredia, M. and Prabhu Pingali. 2001. Environmental impacts of productivity-enhancing research: A critical review. TAC Secretariat Report (SDR/TAC:IAR/01/14), FAO, Rome.

Maredia, M., D. Byerlee, and J. Anderson. "Ex Post Evaluation of Economic Impacts of Agricultural Research Programs: A Tour of Good Practice" In: "The Future of Impact Assessment in CGIAR: Needs, Constraints, and Options", Proceedings of a Workshop Organized by the Standing Panel on Impact Assessment (SPIA) of the Technical Advisory Committee, 3-5 May 2000, FAO, Rome. TAC Secretariat: FAO, Rome.

Horstkotte-Wesseler, G., M. Maredia, D. Byerlee, and G. Alex. 2000. Ex ante Economic Analysis of Agricultural Research and Extension: Methods and Guidelines for Good Practice. AKIS Good Practice Note: Washington, D.C., The World Bank.

Nelson, M., and M. Maredia. 1999. *Environmental impacts of the CGIAR: An initial Assessment*. Document ICW/99/08/d. Washington, D.C.: Impact Assessment and Evaluation Group, Consultative Group for International Agricultural Research.

Maredia, M.K., J. Howard, and D. Boughton, with A. Naseem, M. Wanzala, and K. Kajisa. 1999. *Increasing Seed System Efficiency in Africa: Concepts, Strategies and Issues*. International Development Working Paper No. 77. Department of Agricultural Economics, Michigan State University.

Howard, J., V. Kelly, J. Stepanek, E. Crawford, M. Demeke, and M. Maredia. 1999. *Green Revolution Technology Takes Root In Africa The Promise and Challenge of the Ministry of Agriculture/SG2000 Experiment with Improved Cereals Technology in Ethiopia*. International Development Working Paper No. 76. Department of Agricultural Economics, Michigan State University.

Maredia, M., D. Byerlee, and Peter Pee. 1998. Impacts of Food Crop Improvement Research in Africa. SPAAR Occasional Papers Series, No. 1. December 1998. Washington, D.C., SPAAR.

Maredia, M., J. Howard, L. Farrelly, K. Kajisa, D. Boughton, L. Rubey, J. Shaffer, and J. Oehmke. 1997. Technology Frontiers and Agricultural Transformation in Sub-Saharan Africa. In: Bantayehu Gelaw, Emmanuel Acquah, and Charles Whyte (editors) "Proceedings of the Workshop on Commercialization and Transfer of Agricultural Technology in Africa, Accra, Ghana, November 4-7, 1996" SD Publication Series, Technical Paper No. 57 (July 1997). Washington, D.C., USAID.

Staff Papers/Working Papers/Research Briefs

Maredia, M. K., Robert Shupp, Edward Opoku, Fulgence Mishili, Byron Reyes, Paul Kusolwa, Francis Kusi, and Abdul Kudra. (2018) Do farmers value seeds of different quality differently? Evidence from willingness to pay experiments in Tanzania and Ghana. *International Development Working Paper # 158 (forthcoming)*. East Lansing, MI: Department of Agricultural, Food, and Resource Economics.

DeYoung, David J., Byron Reyes, Juan Osorno, Gustavo Mejia, Julio Cesar Villatoro, and Mywish K. Maredia. (2017). An Overview of Bean Production Practices, Varietal Preferences, and Consumption Patterns in the *Milpa* System of the Guatemalan Highlands: Results of a Farm Household Survey. *Staff Paper 2017-08*. Department of Agricultural, Food and Resource Economics, Michigan State University, East Lansing.

Lazaro, Edith and Mywish K. Maredia. 2017. Assessment of the Quality of Agriculture and Food Security Policy Processes and Institutional Architecture in Tanzania: Results of the 2016 Stakeholder Survey. *Feed the Future Innovation Lab for Food Security Policy Research Paper 89*. East Lansing: Michigan State University.

Traoré, A., Samaké, A., Sanogo, O., Haggblade, S., and Maredia, M. (2017). A Stakeholder Assessment of Agricultural Policy Processes in Mali: Results of a Baseline Survey. *Feed the Future Innovation Lab for Food Security Policy Research Paper 76 - EN*. East Lansing: Michigan State University.

Ngoma, H., Sitko, N., Jayne, T., Chapoto, A. and Maredia, M. (2017). Institutional Architecture and Quality of Agriculture and Food Security Processes in Zambia. *Feed the Future Innovation Lab for Food Security Policy Research Paper 75*. East Lansing: Michigan State University.

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http://ageconsearch.umn.edu/bitstream/163279/2/Staff_Paper_2013_04_bioagents_baseline_report_burkina_faso_final.pdf

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Weatherspoon, D. D., J. Oehmke, C. Wolf, A. Naseem, M. Maredia, A. Hightower. *Global Implications from a North-North-South Trade Model: A Biotech Revolution*. Staff Paper 99-48. Department of Agricultural Economics, Michigan State University.

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Oehmke, J. F., C. Wolf, D. Weatherspoon, A. Naseem, M. Maredia, K. Raper, A. Hightower. 1999. *Cyclical Concentration and Consolidation in Biotech R&D: A Neo-Schumpeterian Model*. Staff Paper 99-50. Department of Agricultural Economics, Michigan State University

Weatherspoon, D. D., J. Oehmke, C. Wolf, A. Naseem, M. Maredia, A. Hightower. 1999. *North-North-South Ag-Biotech Policy: Implications for Growth and Trade*. Staff Paper 99-51. Department of Agricultural Economics, Michigan State University.

Howard, J., V. Kelly, M. Maredia, J. Stepanek, E. Crawford. 1999. *Progress And Problems In Promoting High External-Input Technologies In Sub-Saharan Africa: The Sasakawa Global 2000 Experience In Ethiopia And Mozambique*. Staff Paper 99-24. Dept. of Agricultural Economics, Michigan State University.

Howard, J., M. Demeke, V. Kelly, M. Maredia, and J. Stepanek. 1998. Can the Momentum be Sustained? An Economic Analysis of the Ministry of Agriculture/Sasakawa Global 2000's Experiment with Improved Cereals Technology in Ethiopia. Staff Paper No. 98-25 Department of Agricultural Economics, Michigan State University.

Maredia, M.K. and Howard, J. 1997. Facilitating Seed Sector Transformation in Africa: Key Findings from the Literature. Policy Synthesis No. 33. Department of Agricultural Economics, Michigan State University.

Rusike, J., J. Howard, and M. Maredia. 1997. Seed Sector Evolution in Zambia and Zimbabwe: Has Farmer Access Improved Following Economic Reforms? Policy Synthesis No. 31. Department of Agricultural Economics, Michigan State University.

Maredia, M.K., Howard, J.A., and Boughton, D. 1997. No Shortcuts to Progress: An Assessment of Agricultural Research Planning and Priority Setting in Africa. Policy Synthesis No. 29. Department of Agricultural Economics, Michigan State University.

Kajisa, K., M. Maredia, D. Boughton. 1997. "Transformation versus Stagnation in the Oil Palm Industry: Comparison Between Malaysia and Nigeria" Staff Paper No. 97-5. Department of Agricultural Economics, Michigan State University

Daniels, L., Howard, J., Maredia, M., Oehmke, J. and Bernsten, R. 1992. Assessment of Agricultural Research: Ex-post, Ex-ante, and Needed Methodologies. Department of Agricultural Economics Staff Paper No.92-52. East Lansing: Michigan State University.

Oehmke, J., Daniels, L., Howard, J., Maredia, M., and R. Bernsten. 1992. The Impact of Agricultural Research: A Review of the Ex-post Assessment Literature With Implications for Africa. Department of Agricultural Economics Staff Paper No.92-38. East Lansing: Michigan State University.

Presentations and Workshops (Recent/Selected)

DeYoung, D. J., Maredia, M. K. (August 2, 2016) *Determinants of Sustainability of Community Seed Banks in Nicaragua: A Duration Analysis Approach*. Presented paper at AAEA Annual Meeting, AAEA, Boston, MA.

Ray, M., Maredia, M. K. (August 2, 2016) *A Duration Analysis Approach to Variety Change on Wheat Farms in Bihar, India*. Presented paper at Annual Meeting, Agricultural and Applied Economics Association, Boston, MA.

Ray, M., Maredia, M. K. (August 2, 2016) *Do Smaller States Lead to More Development? Evidence from Splitting of Large States in India*. Presented poster at Annual Meeting, Agricultural and Applied Economics Association, Boston, MA.

Sauer, C., Mason, N. M., Maredia, M. K. (August 2, 2016) *Exploring the role of legume crops in the agriculture-nutrition-food security nexus: Evidence from Zambia*. Presented paper at Annual Meeting, Agricultural and Applied Economics Association, Boston, MA.

Ray, M., Maredia, M. K., Shupp, R. S. (August 2, 2016) *Risk preferences and adoption of climate smart agricultural technologies: Evidence from India*. Presented poster at Annual Meeting, Agricultural and Applied Economics Association, Boston, MA.

Deyoung, D. J., Reyes, B. A., Villatoro, J. C., Montejo, L. d. M., Moscoso, J., Osorno, J., Maredia, M. K. (March 2, 2016) *The role of beans in Milpa production and dietary systems of Guatemalan Highlands: Results of a farm household survey*. Presented poster at Pan African Grain Legume and World Cowpea Conference, IITA and Legume Innovation Lab, Livingstone, Zambia.

Maredia, M. K., Shupp, R. S., Mishili, F., Reyes, B. A., Kusolwa, P. (March 1, 2016) *Farmer willingness to pay for quality bean seed: Experimental evidence from Tanzania*. Presented paper at Pan African Grain Legume and World Cowpea Conference, International Institute of Tropical Agriculture and Legume Innovation Lab, Livingstone, Zambia.

Maredia, M.K. and Reyes, B. 2015, August. *Testing the effectiveness of different approaches of collecting variety-specific adoption data against the benchmark of DNA fingerprinting: The case of beans in Zambia and cassava in Ghana*. Paper Presented at ICAE, Milan, Italia, August 14, 2015.

Maredia, M. K. (Presenter & Author), Reyes, B. A. (Author Only), Ba, M. (Author Only), Pittendrigh, B. (Author Only), Bello-Bravo, J. (Author Only). 2014, November. *Are Animation Videos Effective in Inducing Technology Adoption? A Field Experiment in Burkina Faso*. presented at Department of Economics Research Seminar, Western Michigan University, Kalamazoo, Michigan.

Maredia, M. K. (Author Only), Reyes, B. A. (Presenter & Author). 2014, October. *Are we measuring what we think we are measuring? Preliminary results from Genotyping by Sequencing vs. traditional methods generally used to estimate adoption rates—Pilot Study on Cassava*. presented at AFRE Brown Bag Seminar, East Lansing, Michigan.

Maredia, M. K. (Presenter & Author), Bernsten, R. (Presenter & Author). 2014, August. *Monitoring, Evaluation and Impact Assessment of Agricultural Research for Development: Overview, Challenges and Best Practices*. presented at The Training Visit of the Research Management Team of the Indonesian Agency for Agricultural Research and Development (AARD), East Lansing, Michigan.

Maredia, M. K. (Presenter & Author), Reyes, B. A. (Author Only). 2014, August. *Results & Insights: Cassava in Ghana, Beans in Zambia and Maize in Uganda*. presented at DNA Convening by Bill and Melinda Gates Foundation: Session 4, Seattle, Washington.

Maredia, M. K. (Presenter & Author), Reyes, B. A. (Presenter & Author). 2014, August. *Testing the effectiveness of methodologies for tracking the uptake and adoption of improved varieties: Three Pilot Studies Conducted under the SIAC Project: Cassava in Ghana, Beans in Zambia and Maize in Uganda*. presented at DNA Convening by Bill and Melinda Gates Foundation: Session 1 and 2, Seattle, Washington.

Maredia, M. K. (Presenter & Author), Reyes, B. A. (Author Only), Ba, M. (Author Only), Pittendrigh, B. (Author Only), Bello-Bravo, J. (Author Only). 2014, June. *Can Animated Educational Materials Induce Learning And Adoption Among Low-Literate Farmers? A Field Experiment on the Dissemination of Cowpea Grain Storage Technologies in Burkina Faso*. presented at Research Seminar, Sokoine University of Agriculture (SUA), Morogo, Tanzania.

Maredia, M. K. (Presenter & Author), Donovan, C. (Presenter & Author), (Presenter & Author). 2014, May. *Scaling Up in Agriculture and Nutrition: Concepts and Models*. presented at Legume Innovation Lab Global Meeting, Athens, Greece.

Reyes, B. A. (Presenter & Author), Maredia, M. K. (Presenter & Author), (Presenter & Author). 2014, May. *Characteristics of a sustainable seed system: Application of the principles of sustainability to two models used in Central America*. presented at Legume Innovation Lab Global Meeting, Athens, Greece.

Maredia, M. K. 2014, January. *Creating a framework to assess progress and guide evidence-based interventions: Monitoring evaluation and learning*. presented at Economic Opportunities for Youth Strategy Workshop, East Lansing, MI.

Reyes, B. A. (Presenter & Author), Maredia, M. K. (Author Only). 2014, January. *Methodology/guidelines for collecting varietal release and nationally representative adoption data by varieties*. presented at Inception Meeting of SIAC Activity 2.1, Bangkok, Thailand.

Pitoro, R. (Presenter & Author), M. Maredia (Author only) and S. Jin (Author only). 2013. Status of land ownership, land conflict, and perceptions and knowledge about the land law in Mozambique: Analysis of nationally representative data to assess the impact of land policy monitoring and capacity building activities. Selected Poster, Agricultural & Applied Economics Association Meeting, Washington, DC, August 4-6, 2013.

Magen, B. (Presenter & Author), E. Crawford (Author only) and M. Maredia (Author only). 2013. Economic Impact of Research Investment in the Development and Dissemination of Improved Cowpea Varietal Technology in Senegal. Selected Poster, Agricultural & Applied Economics Association Meeting, Washington, DC, August 4-6, 2013.

Lawson, T. (Presenter & Author) and M. Maredia (Author Only). 2013. A Systematic Review of the Impact of School Feeding Programs on Educational, Nutritional, and Agricultural Development Goals. Selected Poster, Agricultural & Applied Economics Association Meeting, Washington, DC, August 4-6, 2013.

Maredia, M (Presenter & Author) and Reyes, B (Presenter & Author). 2013. "Impact Pathways and Relevance to Legume Innovation Lab Projects" Project Planning Meetings, Puerto Rico, Quito, Lusaka, Accra, Maputo and Dakar, May-June.

Maredia, M (Presenter & Author). 2013. "Designing Impact Evaluations: What are the Appropriate Research Questions and Methods?" Workshop for Managers of Impact Evaluation, InterAction, Washington, D.C., May 13

Maredia, M. (Presenter & Author). 2013. "Introduction to the Survey Instrument: Concepts and Structure" Enumerator Training for the Land Survey, Maseru, Lesotho, March 5.

Maredia, M. (Presenter & Author). 2012. "The theory and practice of impact evaluations in agricultural development". Department of Agricultural, Food and Resource Economics (AFRE), MSU, October 23.

Maredia, M. (Presenter & Author). 2012. "Estimating the Impacts of Crop Improvement Research in Sub-Saharan Africa: An Aggregate Analysis Across Major Crops and Countries". Final Results Workshop of the DIIVA project, SPIA/Bioversity, Rome, November 10.

Maredia, M. (Presenter & Author), Magnan, N. (Presenter & Author). 2012. "Methodological challenges and innovations In Technology adoption and impact analysis". Adoption Pathways Project Planning and Inception Meeting, Addis Ababa, September 13.

Maredia, M. (Presenter & Author), Jin, S. (Author Only). 2012. "Impact Evaluation Research: Methods and Practical Challenges". Ministry of Agriculture (MINAG), Maputo, Mozambique, July 27.

Maredia, M. (Presenter & Author). 2012. "Global Pulse Production and Consumption Trends: The Potential of Pulses to Achieve 'Feed the Future' Food and Nutritional Security Goals". 2012 Global Researchers Meeting, Dry Grain Pulses CRSP, Rwanda, February 18.

Maredia, M. (Presenter & Author). 2012. "Refocusing and Positioning the CRSP to Achieve Development Outcomes: Lessons Learned from Past Bean/Cowpea and Pulse CRSP Investments in Research". 2012 Global Researchers Meeting, Dry Grain Pulses CRSP, Rwanda, February 14.

Reyes, B. A. (Presenter & Author), Bernsten, R. H. (Author Only), Maredia, M. (Author Only), Crawford, E. W. (Author Only). 2012. "Seed Systems as a Basis for Achieving Impacts from Research Investments in Bean and Cowpea Breeding". 2012 Global Researchers Meeting, Dry Grain Pulses CRSP, Rwanda, February 14.

Maredia, M.K. and G. Norton. 2012. "Assessing the Impacts of Agricultural Research and Development in a Global Bio-Economy." Organized Symposium at the 28th International Conference of Agricultural Economists. Foz do Iguaçu, Brazil, August 20.

Maredia, M. (Presenter & Author). 2012. "Can ICT meet the information needs of farmers? A comparative analysis of mobile agro-advisory services (MAAS) implemented in Rajasthan, India". International Association of Agricultural Economists (IAAE), Foz do Iguaçu, Brazil, August 21.

Peralta, M. A. (Presenter & Author), Swinton, S. M. (Author Only), Maredia, M. (Author Only). 2012. "Accounting for selection bias in impact analysis of a rural development program: An application using propensity score matching". International Association of Agricultural Economists (IAAE), Foz do Iguaçu, Brazil, August 20.

Reyes, B. A. (Presenter & Author), Bernsten, R. H. (Author Only), Maredia, M. (Author Only), Crawford, E. W. (Author Only), Kelly, J. D. (Author Only), Rosas, J. C. (Author Only). 2012. "Ex-post Economic Impact of Improved Bean Varieties in Four Central American countries and Ecuador". International Association of Agricultural Economists (IAAE), Foz do Iguaçu, Brazil, August 20.

Reyes, B. A. (Presenter & Author), Donovan, C. (Author Only), Bernsten, R. H. (Author Only), Maredia, M. (Author Only). 2012. "Market participation and sale of potatoes by smallholder farmers in the central highlands of Angola: A Double Hurdle approach". International Association of Agricultural Economists (IAAE), Foz do Iguaçu, Brazil, August 20.

Peralta, A. (Presenter & Author), Swinton, S. M. (Author Only), Maredia, M. (Author Only). 2011. "Accounting for selection bias in establishing a baseline for impact assessment of an integrated rural development project". Mind The Gap Conference on Impact Evaluation 2011, Cuernavaca, Mexico, June 16.

Maredia, M. (Presenter & Author). 2011. "Building Human Resources and Institutional Capacity through CRSPs: Achievements, Best Practices and Constraints". BIFAD Meeting, Des Moines, IA, October 11, 2011.

Maredia, M. (Presenter & Author). 2011. "Strategies for increasing adoption of profitable agricultural technology: Role of policies, institutions, social networks, and supply chains". Agricultural Technology Adoption & Food Security in Africa Evidence Summit, Organized by USAID and ATAI, Washington D.C., June 1-2, 2011.

Maredia, M. (Presenter & Author). 2011. "M&E and Impact Evaluation of Agricultural Research: Challenges and Best Practices". "Feed the Future" Planning Workshop organized by USAID and APLU, Purdue University, January 12.

Maredia, M. (Author Only), Phororo, M. (Presenter & Author). 2011. "Human Subject Protection: Principles and Guidelines for Survey Research". Enumerator Training, Sechaba Consultants, Lesotho, November 17-26 2011, November 17.

Maredia, M. (Author Only), Phororo, M. (Presenter & Author). 2011. "Impact Evaluation Design for the MCA-Land Project in Maseru". Enumerator Training, Sechaba Consultants, Lesotho, November 17-26 2011, November 17.

Maredia, M. (Author Only), Staatz, J. (Presenter & Author) and Dembele, N. (Author only). 2010. Monitoring and Evaluation of ECOWAP/CAADP: The choice of indicators. Presentation to ECOWAP/CAADP monitoring & Evaluation Committee, Cotonou, Benin, 8-10 Nov. 2010.

Maredia, M. (Author Only), Staatz, J. (Presenter & Author) and Dembele, N. (Author only). 2010. Monitoring and Evaluation of ECOWAP/CAADP: The proposed mechanism and framework. Presentation to ECOWAP/CAADP monitoring & Evaluation Committee, Cotonou, Benin, 8-10 Nov. 2010.

COLLEGE/DEPARTMENT SERVICE

Member, Graduate Student Job Placement Committee, AFRE Department. (August 2017-Present).

Member, Advisory Council, Asian Studies Center (MSU). (September 2016 – August 2018). Responsibilities: To provide advice on the broad direction of the Asian Studies Center based on Dean Hanson's vision for International Studies and Program (ISP) as MSU.

Chair, International and Regional Economic Development (Strategic Planning Ad hoc Committee), Michigan State University. (March 2016 - December 2016). Responsibilities: Lead the development of a Report that was submitted to the Department Advisory Committee (DAC) as an input in the AFRE Department's strategic planning process.

Fixed Term Assistant Professor, International Development, Search Committee Chair, April-September 2013

International Agricultural Development (IAD) Field Exam Committee 2011, Committee Member

Ph.D. Thesis Selection Committee, Committee Chair, 2011: Review all the Ph.D. dissertations completed by Department graduates in 2010 and select one thesis for nomination for the "AAEA most outstanding dissertation award-2010"

Pulse CRSP Deputy Director Search Committee, Committee Member, August – October 2011.

OTHER PROFESSIONAL SERVICE:

Theme leader for Abstract Review, Technology Dissemination, Adoption and Impact Assessment/ policy – transformation, Pan African Legume and World Cowpea Conference, (November 2015 - January 2016).

Conference/Meeting Organizer, Innovative methods for measuring adoption of agricultural technologies: Establishing proof of concept and thinking about scaling up, MSU, SPIA and PIM, (August 3, 2016 - August 4, 2016). Responsibilities: Organized a two-day workshop, jointly sponsored by SPIA and PIM, to bring together impact assessment researchers from the CGIAR to: a) Take a stock of current and innovative methods for measuring adoption of agricultural technologies; b) Share and discuss results and insights from pilot studies and experiments conducted to establish proof of concepts to harness the potential of new methods for tracking adoption of agricultural practices and other types of technologies; and c) Further the discussion on scaling up proven methods for measuring technology adoption.

COMMUNITY SERVICE

1997-2013: Secretary, Board of Directors, Sidhpur Foundation. Sidhpur Foundation is a 501(c)(3) non-profit organization working towards the educational development of communities originating from Sidhpur and surrounding rural areas in Gujarat, India. It was co-founded by Karim Maredia and Mywish Maredia in 1997.

LANGUAGE SKILLS

English, Hindi and Gujarati (fluent); Spanish (working knowledge)