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**EDUCATION:**

**PhD.** *Development Economics and Environmental Economics.* Wageningen University, the Netherlands. Wageningen School of Social Sciences Department and Land Dynamics Group. 2016.

**MSc.** *Applied Economics.* Department of Agricultural Economics and Economics. Montana State University. 2002

**Professional Title, Economist Engineer.** Universidad Nacional del Altiplano, Puno, Peru. 1996

**Project Design and Evaluation Specialist,** Instituto Peruano de Administración de Empresas, IPAE.(Peruvian Institute of Business and Administration).Lima, Peru.1996

**B.S. in Economic Sciences,** Universidad Nacional del Altiplano, Puno, Peru. 1995.

**Integral English Language Specialist and ESL Instructor.** Interamericana Inglesa. Puno, Peru. 1991.

**EMPLOYMENT / WORK EXPERIENCE:**

**2016 (October) – Present:** Assistant Professor, Senior Researcher. Department of Applied Economics, Oregon State University. Research Projects:

- Agricultural Model Inter-comparison and Improvement Project (AgMIP). Regional Economics Team Leadership. Activities in US, Africa, Asia and Latin America. UK DFID-USAID-USDA-NASA.
  - o Co-Leader AgMIP Regional Economics Team
- Increasing Productivity and Livelihoods in the Nirop du Rip Basin in Senegal. Assessment of Crop Index Insurance and soil nutrient management practices. Collaborative project between AgMIP and CCAFS (The CGIAR Research Program on *Climate Change, Agriculture and Food Security*). Funded by USAID.

**2011 (October) – September 2016:** Faculty Research Assistant. Department of Applied Economics, Oregon State University.

**2011 – 2013:** “Big Sky Regional Carbon Sequestration Partnership, Phase 3 - Economics Team” U.S. Department of Energy, Fossil Energy Research and Development Program (End date: December 2013).

**2002 – 2011 (September):** Research Associate. Department of Agricultural Economics and Economics. Montana State University. Researcher in the following projects:

- “Assessing the Impacts of CRSP Research: Human Capital, Research Discovery, and Technology Adoption”. Project funded by the AquaFish Collaborative Research Support Program (CRSP), Agency for International Development, 2010-2011 –Co-PI (\$451,000).
- “Big Sky Regional Carbon Sequestration Partnership, Phase 2.” Department of Energy, Fossil Energy Research and Development Program. September 2008 –2010
- “The Tradeoff Analysis Project Phase 2: Scaling Up and Technology Transfer to Address Poverty, Food Security and Sustainability of the Agro-Environment.” Phase 2 of project funded as part of the Soil Management Collaborative Research Support Program (SM-CRSP), Agency for International Development, 2002-2008.
- Consortium for Agricultural Soils Mitigation of Greenhouse Gases, CASMGS-MSU,

Bozeman. MSU participation in the Consortium for Agricultural Soils Mitigation of Greenhouse Gases. CSREES/USDA, 2002-2004.

**1999-2002** Research Scholar. Project: “Tradeoffs in Sustainable Agriculture and the Environment in the Andes: A decision Support System for Policy Markers”. Montana State University, Department of Agricultural Economics and Economics. (Project leader: John Antle). August 1999 – April 2002

**1996-1999** Research Assistant. International Potato Center (CIP). Lima Peru. Researcher and consultant for different projects funded by USAID, IFAD, IDRC and others:

- “Crop and Livestock Systems”. Project jointly managed by the CGIAR centers: International Potato Center, (CIP) and International Livestock Research Institute (ILRI). Lima, Peru. January 1999 - July 1999.
- “Tradeoffs in Sustainable Agriculture and the Environment in the Andes: A decision Support System for Policy Markers”, based in La Encañada, Cajamarca, Peru. Project financed by the USAID (SM-CRSP). (Project Leaders: John Antle and Charles Crissman). November 1997 - July 1999.
- Consortium for the Sustainable Development of the Andean Ecoregion. (CONDESAN). 1996-1998.
- Member of the Consulting Team (CIP-CONDESAN), to evaluate the IFAD’s funded Projects: Norte Chuquisaca Project in Bolivia, Arequipa in Peru, and Loja in Ecuador on behalf of the International Fund for Agricultural Development IFAD, Bolivia 1996.

**1994 – 1995** Research Assistant. Project: Production Systems in the Bolivian Highlands. Bolivian National Agricultural Research Institute (IBTA) – International Development Research Center (IDRC-Canada) and the Consortium for the Sustainable Development of the Andean Ecoregion (CONDESAN-Bolivia). Bolivia 1994-1995.

**1995 (January-April)** Researcher. Instituto de Análisis de Políticas Agrarias – IAPA (Agrarian Policy Analysis Institute). Lima, Perú.

**1993 (July-December)** Research Assistant. Consejo Andino de Manejo Ecológico – CAME (Andean Council for the Ecological Management). Puno, Perú.

**1994-1995** English Teacher. Universidad Nacional del Altiplano (National University of the Altiplano). Puno, Perú.

### INTERNATIONAL EXPERIENCE:

Has extensive experience working with projects in Latin America (Peru, Bolivia, Chile, Ecuador, Colombia and Panama), Africa (Kenya, Senegal, Tanzania, Zimbabwe and other countries) and in Asia (China, Bangladesh, India, Pakistan among others). He also has experience working in developed countries in North America (United States) and Europe (Netherlands, United Kingdom). Consultant to:

- Inter-American Development Bank (IDB), 2016
- United Nations (UN), 2015-2016
- Food and Agriculture of the United Nations (FAO). 2013-2015
- International Development Research Centre (IDRC-Canada) –Tanzania (2012- 2013)
- World Fish Center, Malaysia-Bangladesh-Malawi-Ghana (2011 - 2012)
- ILRI-CAAFS, Consultative Group on International Agricultural Research (CGIAR)-Program on Climate Change, Agriculture and Food Security. (2011-2012)
- Bill and Melinda Gates Foundation, 2010-2011, 2013
- International Fund for Agricultural Development (IFAD), 1995-1996

## SCHOLARSHIPS AND AWARDS:

Scholarship: University of Bologna, “Alma Mater Studiorum” and the Fondazione della Cassa di Risparmio di Imola. Scholarship for the course: “Discrete Choice Models: Theory and Applications to Environment, Landscape, Transportation and Marketing”. Imola, Bologna, Italy. July, 2008.

Departmental Recognition Award. Universidad Nacional del Altiplano, Department of Ingeniería Económica. Puno Perú: “*In merit for his Research work on the field of Agricultural Economics*”. Resolución Decanal No.041-2007-D-FIE-UNA. June, 2007. Puno, Peru

Research Scholarship: USAID, Soil Management – Collaborative Research Support Program. Project “Tradeoffs in Sustainable Agriculture and the Environment in the Andes: A Decision Support System for policy Makers”. August 1999 – May 2002.

## OTHER PROFESSIONAL ACTIVITIES:

Reviewer for Agricultural Systems (AS)

Reviewer for Global Food Security (GFS)

Reviewer for Environmental Modelling and Software (ENVSOF)

Reviewer for Journal of Agricultural Economics (AE)

Reviewer for Journal of Agricultural and Applied Economics (JAAE)

Reviewer for African Journal of Business Management (AJBM)

Reviewer for Journal of Agricultural Science (JAS)

Reviewer for Australian Journal of Agricultural and Resource Economics (AJARE)

Associate Editor (2011-2012) and Reviewer for The International Journal of Climate Change: Impacts and Responses (IJCC)

## OTHER NON-PROFESSIONAL/COMMUNITY ACTIVITIES

Board of Trustees, Bozeman Summit School. Bozeman, MT. 2013-2017. Vice-President.

Board of Directors, The Language Center, Non-profit organization. Bozeman, MT 2004-2012

Member of ROTARACT Club Puno, ROTARY International. 1992-1995.

Projects Coordinator. Boy Scout Group #.5. Puno, Peru. May 1993 – May 1995.

Local Management Boy Scouts Commissioner. Puno, Peru. Sep. 1994 – Aug. 1995.

Board of Directors, CEOGNE Britanico (British Institute). Puno, Peru 1993.

Leader. Boy Scout Group # 5. Puno, Peru. (December 1992 – May 1993)

Board Member, Peruvian National Association of Boy Scouts, Site Puno. 1991-1993 (Associated since 1979)

**PUBLICATIONS:*****Peer-Reviewed Journal Articles and Other Publications***

- Tumbo, S., Mutabazi, K., Mourice S., Msongaleli, M., Wambura, J., Mzirai, O., Kadigi, I., Kahimba, F., Mlonganile, P., Ngongolo, H., Sangalugembe, C., Rao, K.P.C, **Valdivia, R.** 2018. *Integrated Assessment of Climate Change Impacts and Adaptation in Agriculture: The Case Study of Wami River sub-Basin, Tanzania*. Forthcoming in: Africa Climate Variability and Change. International Council for Science (ICSU), Africa. *In Press*.
- Rosenzweig, C., Ruane, A.C., Antle, J., Elliott, J., Ashfaq, M., Chatta, A.A., Ewert, F., Folberth, C., Hathie, I., Havlik, P., Hoogenboom, G., Lotze-Campen, H., MacCarthy, D., Mason-D'Croz, D., Mencos Contreras, E., Müller, C., Perez-Dominguez, I., Phillips, M., Porter, C., Raymundo, R., Sands, R., Schleussner, C., **Valdivia, R.**, Valin, H., Wiebe K. 2018. Coordinating AgMIP data and models across global and regional scales for 1.5° C and 2.0° C assessments. *Phil. Trans. R. Soc. A*, 376(2119), p.20160455.
- Antle, J.M., Cho, S., Tabatabaie, S.H. and **Valdivia, R.O.**, 2018. Economic and environmental performance of dryland wheat-based farming systems in a 1.5 C world. *Mitigation and Adaptation Strategies for Global Change*, pp.1-16.
- Antle, J.M., Homann-KeeTui, S., Descheemaeker, K., Masikati, P. and **Valdivia, R.O.**, 2018. Using AgMIP Regional Integrated Assessment Methods to Evaluate Vulnerability, Resilience and Adaptive Capacity for Climate Smart Agricultural Systems. In *Climate Smart Agriculture* (pp. 307-333). Springer, Cham.
- Valdivia, R.O.**, Antle, J.M. and Stoorvogel, J.J., 2017. Designing and evaluating sustainable development pathways for semi-subsistence crop–livestock systems: lessons from Kenya. *Agricultural Economics*, 48(S1), pp.11-26.
- Nedumaran, S., Kadiyala, M.D.M., Charyulu, D.K., **Valdivia, R.**, Reddy, S.S., Jyosthnaa, P., Geethalakshmi, V. and Singh, N.P., 2017. Evaluation of Potential Adaptation Strategies to Enhance Farm Income of Rainfed Fallow-Chickpea Farming System in Andhra Pradesh. *Agricultural Economics Research Review*.
- Shikuku, K.M., **Valdivia, R.O.**, Paul, B.K., Mwongera, C., Winowiecki, L., Läderach, P., Herrero, M. and Silvestri, S., 2016. Prioritizing climate-smart livestock technologies in rural Tanzania: A minimum data approach. *Agricultural systems*, 151, pp.204-216.
- Valdivia, Roberto O.**, John M. Antle, Cynthia Rosenzweig, Alex C. Ruane, Joost Vervoort, Muhammad Ashfaq, Ibrahima Hathie, Sabine Homann-Kee Tui, Richard Mulwa, Charles Nhemachena, Paramasivam Ponnusamy, Herath Rasnayaka, Harbir Singh. 2015. *Representative Agricultural Pathways and Scenarios for Regional Integrated Assessment of Climate Change Impact, Vulnerability and Adaptation*. In *Handbook of Climate Change and Agroecosystems: The Agricultural Model Intercomparison and Improvement Project (AgMIP)*. C. Rosenzweig, and D. Hillel, Eds., ICP Series on Climate Change Impacts, Adaptation, and Mitigation Vol. 3. Imperial College Press, 101-156, doi:10.1142/9781783265640\_0005.
- Rosenzweig, C., J.W. Jones, J.L. Hatfield, J.M. Antle, A.C. Ruane, K.J. Boote, P.J. Thorburn, **R.O. Valdivia**, C.H. Porter, S. Janssen, and C.Z. Mutter, 2015: Appendix 1. Guide for Regional Integrated Assessments: Handbook of Methods and Procedures, Version 5.1. In *Handbook of Climate Change and Agroecosystems: The Agricultural Model Intercomparison and Improvement Project (AgMIP)*. C. Rosenzweig, and D. Hillel, Eds., ICP Series on Climate Change Impacts, Adaptation, and Mitigation Vol. 3. Imperial College Press, 331-386.
- Antle, John, **Roberto O. Valdivia**, Ken Boote, Jerry Hatfield, Sander Janssen, Jim Jones, Cheryl Porter, Cynthia Rosenzweig, Alex Ruane, and Peter Thorburn. 2015. *AgMIP's Trans-disciplinary Approach to Regional Integrated Assessment of Climate Impact, Vulnerability and Adaptation of Agricultural Systems*. In *Handbook of Climate Change and Agroecosystems: The Agricultural Model Intercomparison and Improvement Project (AgMIP)*. C. Rosenzweig, and D. Hillel, Eds., ICP Series on Climate Change Impacts, Adaptation, and Mitigation Vol. 3. Imperial College Press, doi:10.1142/9781783265640\_0002.

- Adiku, Samuel G.K., Dilys S. MacCarthy, Ibrahima Haithie, Madina Diancoumba, Bright S. Freduah, Joseph Amikuzuno, P.C. Sibiry Traore, Seydou Traore, Eric Koomson, Alhassane Agali, Jon I. Lizaso, Dougbedji Fatondji, Myriam Adams, Lodoun Tigana, Daouda Z. Diarra, Ousmane N'diaye, and **Roberto O. Valdivia**. 2015. In *Handbook of Climate Change and Agroecosystems: The Agricultural Model Intercomparison and Improvement Project (AgMIP), Part 2*. C. Rosenzweig, and D. Hillel, Eds. ICP Series on Climate Change Impacts, Adaptation, and Mitigation Vol. 3. Imperial College Press, 355-374, doi: 10.1142/9781783265640\_00.
- Rao, Karuturi P.C., Gummadi Sridhar, Richard M. Mulwa, Mary N. Kilavi, Anthony Esilaba, Ioannis N. Athanasiadis, and **Roberto O. Valdivia**. 2014. *Impacts of Climate Variability and Change on Agricultural Systems in Eastern Africa*. In *Handbook of Climate Change and Agroecosystems: The Agricultural Model Intercomparison and Improvement Project (AgMIP), Part 2*. C. Rosenzweig, and D. Hillel, Eds., ICP Series on Climate Change Impacts, Adaptation, and Mitigation Vol. 3. Imperial College Press, 355-374, doi:10.1142/9781783265640\_002
- Beletse, Y., W. Durand, C. Nhemachena, O. Crespo, W. Tesfahuney, M. Jones, M. Teweldemedhin, M. Gamedze, P.M. Bonolo, S. Jonas, S. Walker, P. Gwimbi, T. Mpuisang, D. Cammarano, and **Roberto O. Valdivia**. 2015. *Projected Impacts of Climate Change Scenarios on the Production of Maize in Southern Africa: An Integrated Assessment Case Study of the Bethlehem District, Central Free State, South Africa*. In *Handbook of Climate Change and Agroecosystems: The Agricultural Model Intercomparison and Improvement Project (AgMIP), Part 2*. C. Rosenzweig, and D. Hillel, Eds., ICP Series on Climate Change Impacts, Adaptation, and Mitigation Vol. 3. Imperial College Press, 355-374, doi:10.1142/9781783265640\_002
- Patricia Masikati, Sabine HomannKee-Tui, Katrien Descheemaeker, Olivier Crespo, Sue Walker, Chris Lennard, Lieven Claessens, Arthur Gama, Sebastiao Famba, Andre van Rooyen, and **Roberto O. Valdivia**. 2015. *Crop-livestock Intensification in the Face of Climate Change: Exploring Opportunities to Reduce Risk and Increase Resilience In Southern Africa Using an Integrated Multi- Modeling Approach*. In *Handbook of Climate Change and Agroecosystems: The Agricultural Model Intercomparison and Improvement Project (AgMIP), Part 2*. C. Rosenzweig, and D. Hillel, Eds., ICP Series on Climate Change Impacts, Adaptation, and Mitigation Vol. 3. Imperial College Press, 355-374, doi:10.1142/9781783265640\_002.
- Ahmad Ashfaq , Muhammad Ashfaq, Ghulam Rasul, Syed Aftab Wajid, Tasneem Khaliq, Fahd Rasul, Umer Saeed, Muhammad Habib ur Rahman, Jamshad Hussain, Irfan Ahmad Baig, Asif Ali Naqvi, Syed Ahsan Ali Bokhari, Shakeel Ahmad, Wajid Naseem, Gerrit Hoogenboom, and **Roberto O. Valdivia**. 2015. *Impact of Climate Change on the Rice-Wheat Cropping System of Pakistan*. In *Handbook of Climate Change and Agroecosystems: The Agricultural Model Intercomparison and Improvement Project (AgMIP), Part 2*. C. Rosenzweig, and D. Hillel, Eds., ICP Series on Climate Change Impacts, Adaptation, and Mitigation Vol. 3. Imperial College Press, 355-374, doi:10.1142/9781783265640\_00.
- Nataraja Subash, Babooji Gangwar, Harbir Singh, Guillermo Baigorria, Alok Kumar Sikka, and **Roberto O. Valdivia**. 2015. *Integrated Climate Change Assessment through Linking Crop Simulation with Economic Modeling – Preliminary Results from the Indo-Gangetic Basin. Impact of Climate Change on the Rice-Wheat Cropping System of Pakistan*. In *Handbook of Climate Change and Agroecosystems: The Agricultural Model Intercomparison and Improvement Project (AgMIP), Part 2*. C. Rosenzweig, and D. Hillel, Eds., ICP Series on Climate Change Impacts, Adaptation, and Mitigation Vol. 3. Imperial College Press, 355-374, doi:10.1142/9781783265640\_002.
- Paramasivam Ponnusamy, Geethalakshmi Vellingiri, Raji Reddy Danda, Lakshmanan Arunachalam, Dakshina Murthy, Sunandini Prema, Sreenivas Gade, Sonali McDermid, and **Roberto O. Valdivia**. 2015. *Integrated Assessment of Climate Change Impacts on Maize and Farm Household Incomes in Southern India: a Case Study from Tamil Nadu*. In *Handbook of Climate Change and Agroecosystems: The Agricultural Model Intercomparison and Improvement Project (AgMIP), Part 2*. C. Rosenzweig, and D. Hillel, Eds., ICP Series on

- Climate Change Impacts, Adaptation, and Mitigation Vol. 3. Imperial College Press, 355-374, doi:10.1142/9781783265640\_002.
- Zubair, Lareef, S.P. Nissanka, W.M.W. Weerakoon, D.I. Herath, A. Karunaratne, A.E. N. Wijekoon, R.M. Herath, A.S.M.P.M.B. Agalawatte, B.V.R. Punyawardhene, S.S.K. Chandrasekara, P. Delpitiya, S. Z. Yahiya, J. Gunaratna, T.M.R.S. Perera, J. Vishwanathan, A.A.I. Gunesekara, P.Gajanayake, K.D.N.Weerasinghe, C.M. Navaratne, P. Wickramagama, D. Wallach, and **R. O. Valdivia**. 2015. In *Handbook of Climate Change and Agroecosystems: The Agricultural Model Intercomparison and Improvement Project (AgMIP), Part 2*. C. Rosenzweig, and D. Hillel, Eds., ICP Series on Climate Change Impacts, Adaptation, and Mitigation Vol. 3. Imperial College Press, 355-374, doi:10.1142/9781783265640\_002.
- Assad, Eduardo, Fabio R. Marin, **Roberto O. Valdivia** and Cynthia Rosenzweig. 2015. *AgMIP Regional Activities in a Global Framework: The Brazil Experience*. In *Handbook of Climate Change and Agroecosystems: The Agricultural Model Intercomparison and Improvement Project (AgMIP), Part 2*. C. Rosenzweig, and D. Hillel, Eds., ICP Series on Climate Change Impacts, Adaptation, and Mitigation Vol. 3. Imperial College Press, 355-374, doi:10.1142/9781783265640\_0023
- Baig, I.A., Ashfaq, M., Naqvi, S.A.A., Ahmed, A., Hoogenboom, G., Antle, J.M., **Valdivia, R.** (2014), 'Ex ante impact assessment of wheat crop in Punjab-Pakistan', *Journal of Applied Environmental and Biological Sciences*, Vol 4, No 7S, pp 358–363
- Antle, J.M., J.J. Stoorvogel, **R.O. Valdivia**. 2014. "New Parsimonious Simulation Methods and Tools to Assess Future Food and Environmental Security of Farm Populations." *Philosophical Transactions of the Royal Society B* 20120280. <http://dx.doi.org/10.1098/rstb.2012.0280>.
- Van Wijk, M.T., Rufino, M.C., Enahoro, D., Parsons, D., Silvestri, S., **Valdivia, R.O.** and Herrero, M., 2014. Farm household models to analyse food security in a changing climate: a review. *Global Food Security*, 3(2), pp.77-84.
- Valdivia, Roberto O.**, Stoorvogel, Jetse J., and John Antle. 2012. Economic and Environmental Impacts of Climate Change and Socio-Economic Scenarios: A case study on a Semi-Subsistence Agricultural Production System. *The International Journal of Climate Change: Impacts and Responses*. Volume 3, Issue 2 (2012).
- Valdivia, Roberto O.**, Antle, John M. and Jetse J. Stoorvogel. 2012. Coupling the Tradeoff Analysis Model with a market equilibrium model to analyze economic and environmental outcomes of agricultural production systems. *Agricultural Systems* 110 (2012).
- Claessens, L., Antle, J. M., Stoorvogel, J. J., **Valdivia, R. O.**, Thornton, P. K., Herrero, M., 2012 A method for evaluating climate change adaptation strategies for small-scale farmers using survey, experimental and modeled data. *Agricultural Systems* **111**, 85-95.
- Antle, J.M., B. Diagana, J.J. Stoorvogel and **R.O. Valdivia**. 2010. "Minimum-Data Analysis of Ecosystem Service Supply in Semi-Subsistence Agricultural Systems: Evidence from Kenya and Senegal." *Australian Journal of Agricultural and Resource Economics* 54:601-617.
- Antle, J.M., J.J. Stoorvogel, and **R.O.Valdivia**. 2007. Assessing the Economic Impacts of Agricultural Carbon Sequestration: Terraces and Agroforestry in the Peruvian Andes. *Agriculture, Ecosystems and Environment* 122(4):435-445.
- Antle, J.M., and **R.O.Valdivia**. (2006). "Modeling The Supply Of Ecosystem Services From Agriculture: A Minimum-Data Approach". *The Australian Journal of Agricultural and Resource Economics*, 50, pp 1-15.
- Antle, J.M., J.J. Stoorvogel, and **R.O.Valdivia**. 2006. "Multiple Equilibria, Soil Conservation Investments and the Resilience of Agricultural Systems." *Environment and Development Economics*. Vol. 11, Issue 4, August 2006.
- Antle, J.M., **R.O.Valdivia**, C.C. Crissman, J.J. Stoorvogel, and D. Yanggen. (2006). "Spatial Heterogeneity and Adoption of Soil Conservation Investments: Integrated Assessment of Slow Formation Terraces in the Andes." In D. Miljkovic, ed., *New Topics in International Agricultural Trade and Development*. New York: Nova Science Publishers, Inc, pp. 29-53.
- Antle, J.M., **R.O.Valdivia**, C.C. Crissman, J.J. Stoorvogel, and D. Yanggen. (2005). "Spatial Heterogeneity and Adoption of Soil Conservation Investments: Integrated Assessment of Slow

Formation Terraces in the Andes.” *Journal of International Agricultural Trade and Development* 1(1):29-53.

### ***Submitted, in-Revision or in Preparation Peer-Reviewed Journal Articles and Other Publications***

- Ruane, A., Antle, J., Elliott, J., Folberth, C., Hoogenboom, G., Mason-D’Croz, D., Müller, C., Porter, C., Phillips, M., Raymundo, R., Sands, R., **Valdivia, R.**, White, J., Wiebe, K., and C. Rosenzweig. 2018. Global and regional agricultural implications of +1.5 and +2.0 °C global warming: A prototype of the AgMIP Coordinated Global and Regional Assessments. *Submitted to Climate Research*.
- Homann-Kee Tui Sabine, Descheemaeker Katrien, Masikati Patricia, Chibwana Gama Arthur, Crespo Olivier, Claessens Lieven, **Roberto Valdivia**. 2017. Re-designing smallholder farming futures for reduced vulnerability to climate change in semi-arid southern Africa. *Submitted to Ecological Economics*.
- Hathie, I., MacCarthy, S., **Valdivia, R.**, Antle, J., Adam, M. 2018. Trade policy implications of climate change impacts on current and future agricultural systems in the semi-arid regions of West Africa. Submitted to the Food and Agriculture Organization of the United Nations (FAO) as part of the International technical conference on climate change, agricultural trade and food security. FAO, Rome, Italy.
- Valdivia R.O.**, Antle, J., et al. 2018. Understanding the economic and bio-physical tradeoffs of climate change impacts on smallholder farming systems. *In preparation*.
- Valdivia R.O.**, Antle, J., et al. 2018. Impacts of 1.5oC and 2.0oC global warming on small holder farmers in Senegal and Pakistan. *In preparation*.
- Valdivia R.O.**, Antle, J.; Homann-Kee Tui, S., Subash, N., Hathie, I., Neduraman, S., Harbir, S., Claessens, L., Dickson, C., Sisito, G. 2018. Developing Representative Agricultural Pathways: A Multi-Scale Co-Designing Process to Support Transformation and Resilience of Agricultural Farming Systems. *In preparation*.
- Valdivia R.O.**, Witkowski, K., Medina, D. 2018. Modelling in Latin America and The Caribbean: Bridging the Gaps Between Supply and Demand of Information for Decision Making. *In preparation*.
- Cammarano, D., **R.O. Valdivia**, Y.G. Beletse, W. Durand, O. Crespo, A.C. Ruane<sup>6</sup> W.A. Tesfahuney, M.R. Jones, S. Walker, T.N. Mpuisang, et al. 2018. Integrated assessment of climate change impacts on crop productivity and income of commercial maize farms in northeast South Africa. *In preparation to be submitted to Climatic Research*.

### ***Book Chapters and Reports:***

- John M. Antle; **Roberto O. Valdivia**. 2016. Assessing Climate Change Impact, Adaptation, Vulnerability, and Food Security of Farm Households: The AgMIP Regional Integrated Assessment Approach. World Economic and Social Survey 2016: Climate Change resilience – an opportunity for reducing inequalities. Background Paper for the WESS 2016. United Nations. Available at <http://bit.ly/2a8si5H>
- Claessens, L., Antle, J.M., Stoorvogel, J.J., **Valdivia, R.O.**, Thornton, P.K., Herrero, M., Bantilan, C., Byjesh, K. and Nedumaran, S., 2015. Scoping climate change adaptation strategies for smallholder farmers in East Africa-a multi-dimensional, multi-scenario impact asse it’s not what you want to want trying to empty control but she’s not. Because she says she does not remembersment. *Climate change challenges and adaptations at farm-level: case studies from Asia and Africa*, pp.138-145. CABI.
- Rosenzweig, C., Jones, J.W., Hatfield, J.L., Antle, J.M., Ruane, A.C., Boote, K.J., Thorburn, P.J., **Valdivia, R.O.**, Porter, C.H., Janssen, S. and Mutter, C.Z., 2015. Appendix 1. Guide for regional integrated assessments: handbook of methods and procedures, version 5.1. *Handbook of Climate*



*Change and Agroecosystems: The Agricultural Model Intercomparison and Improvement Project (AgMIP) ICP Series on Climate Change Impacts, Adaptation, and Mitigation*, 3, pp.331-386.

- Van Wijk M.T., M.C. Rufino, D. Enahoro, D. Parsons, S. Silvestri, **R.O. Valdivia**, and M. Herrero. 2012. "A Review on farm household modeling with a focus on climate change adaptation and mitigation". Published by the CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS). Copenhagen, Denmark.
- Valdivia-Alatrasta, R.O.**; Quiroz, R.; Valdivia-Fernández, R.; Choquehuanca V. 1997. Risk analysis of potato production systems in the Altiplano: Quantifying farmers' beliefs. International Potato Center. Program Report, 1995-96. pp. 29-33.. ISSN 0256-6311.
- Quispe, H.; Morales, D.; Quino M.; Castillo, A.; **Valdivia, R.O.**; Quiroz, R. 1996. "Experiencias en la aplicación de la metodología de sistemas en el Altiplano norte de Bolivia". Bolivian National Agricultural Research Institute (IBTA) – International Development Research Center (IDRC-Canada).
- Valdivia A., Roberto O.**; Quiroz G., Roberto. 1996, "Percepción de los actores del proyecto Norte Chuquisaca, Bolivia.". IFAD. Document presented to the International Fund for Agricultural Development (IFAD) as a result of a Consulting to evaluate the project.
- Quiroz G., Roberto.; **Valdivia A., Roberto O.** 1996, " Estudio de caso de manejo de Recursos Naturales". Proyecto Norte Chuquisaca, Bolivia - IFAD. CONDESAN. Lima, Perú. Document presented to the International Fund for Agricultural Development (IFAD) as a result of a consulting to evaluate the project.

### *Conference papers and proceedings*

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- Antle, J.M. and **Roberto Valdivia**. 2011. Methods for Assessing Economic, Environmental and Social Impacts of Aquaculture technologies: Adoption of Integrated Agriculture-Aquaculture in Malawi. Paper presented at the 9th Asian Fisheries and Aquaculture Forum, Shanghai, April 22 2011.
- Antle, J.M. and **Roberto Valdivia**. 2011. TOA-MD: A Tool to improve the Quality and lower the cost of Multidimensional Impact Assessment. Seminar at World Fish Center. Penang, Malaysia April 25, 2011.
- Antle J.M. and **Roberto Valdivia**. 2010. Minimum Data Analysis of Adoption and Impact of Integrated Agriculture-Aquaculture Systems. AquaFish CRSP Impact Assessment Project Meeting. Seattle October 4-7, 2010.
- Valdivia, R.O.**, J.M. Antle, J.J. Stoorvogel: Coupling integrated assessment models to market equilibrium models to analyse economic and agricultural-environment interactions across different scales. AgSAP Conference: Integrated Assessment of Agriculture and Sustainable Development: Setting the Agenda for Science and Policy. Egmond aan Zee, The Netherlands. March 10-12, 2009.
- Antle, J.M., J.J. Stoorvogel, **R.O. Valdivia**: The Trade-off Analysis software: Modelling tools to support informed policy decision making. AgSAP Conference: Integrated Assessment of



- Agriculture and Sustainable Development: Setting the Agenda for Science and Policy. Egmond aan Zee, The Netherlands. March 10-12, 2009.
- Claessens, L., J.J. Stoorvogel, J.M. Antle, **R.O. Valdivia**, M. Herrero: A minimum-data approach to ex-ante assessment of climate change adaptation strategies in resource-poor countries. AgSAP Conference: Integrated Assessment of Agriculture and Sustainable Development: Setting the Agenda for Science and Policy. Egmond aan Zee, The Netherlands. March 10-12, 2009.
- Antle, J.M., Stoorvogel, J.J., and **Roberto O. Valdivia**. 2009. Assessing poverty-sustainability tradeoffs in semi-subsistence agricultural systems: A Case study of policy options in Machakos, Kenya. AgSAP Conference: Integrated Assessment of Agriculture and Sustainable Development: Setting the Agenda for Science and Policy. Egmond aan Zee, The Netherlands. March 10-12, 2009
- Valdivia, Roberto O.** “Evaluación de Sistemas Agropecuarios de Producción: Tradeoff Análisis TOA- Análisis de Relaciones de Intercambio”. Presentation at the Universidad Nacional del Altiplano: Graduate School of Rural Development. June 9, 2007. Puno, Peru.
- Valdivia, Roberto O.** “El Proyecto de Análisis de Relaciones de Intercambio (Tradeoff Analysis) y sus aplicaciones”. Presentation at the Universidad Nacional del Altiplano: Department of Ingeniería Económica. June 7, 2007. Puno, Peru
- Valdivia, Roberto O.** Tradeoffs Analysis: Un Enfoque de Evaluación Integrada para Modelar Sistemas de Producción Agropecuarios. Presentation organized by the Universidad Nacional del Altiplano’s Graduate School, the Research Center for Natural Resources and Environment (CIRNMA). Presentation given to researchers, NGO’s directors and policy makers in Puno. June 5, 2007. Puno, Peru
- Valdivia, Roberto O.** & J. Antle. Tradeoff Analysis: A Decision Support System for Policy Makers: From the Full version to Minimum Data Model. Workshop at the Agricultural and Development Institute of Panama, IDIAP. Organized by the Tradeoffs Project, Montana State University and the International Potato Center. Panama City, Panama. February 14, 2005.
- Yanggen, D., J. Antle, and **R.O. Valdivia**. Economic Analysis of Subsidies and the Sustainable Adoption of Agricultural Conservation Technologies: A Conceptual Framework and Case Study of Terraces in the Peruvian Andes. Presentation at the Latin American Congress of Watershed Management, Arequipa, Peru, June 4–9, 2003.
- Valdivia, Roberto O.** The Economics of Terraces in the Peruvian Andes: An Application of Sensitivity Analysis in an Integrated Assessment Model. Presentation required by the Dept. of Ag. Economics and Economics, MSU to obtain the Master of Science degree. April 2002.
- Valdivia, Roberto O.** and J.M. Antle. Tradeoffs in Sustainable Agriculture and the Environment in the Andes: A Decision Support System for Policy Makers. Preliminary results of data cleaning. Montana State University, Bozeman MT. May 2000.
- Valdivia, Roberto O.**; Regalado, E. “Project’s activities Report, Tradeoff Project”. Quito, Ecuador. 1999
- Leon-Velarde, C.; **Valdivia, Roberto O.**; Guerrero, Jose. “RISK: A simulation model. Overview of the first version”. International Potato Center. 1997.
- Valdivia, Roberto O.**; Leon-Velarde, Carlos. “Livestock Simulation Models: How to program a simulation Model”. Presented at the monthly meetings of the natural Resources Management Group at the International Potato Center. Lima, Peru. 1997
- Valdivia, Roberto O.**; Quiroz, Roberto. “Potato Risk Analysis in the Altiplano”. International Potato Center. Lima, Peru 1997.
- Valdivia, Roberto O.** “DSSAT, how it works”. Presentation given to a group of collaborators of PROINPA, Cochabamba, Bolivia. 1996.
- Valdivia, Roberto O.** “Incorporation of Risk Analysis in the economic evaluation of Agricultural Systems of the Altiplano (Highlands)”. Universidad Nacional del Altiplano. Puno, Peru 1996.

***Theses:***

Is Sustainable Development of Semi-Subsistence Mixed Crop-Livestock Systems Possible? An integrated assessment of Machakos, Kenya. Wageningen School of Social Sciences Department and Soil Sciences and Landscape Department. Wageningen University. The Netherlands. 2016

The Economics of Terraces in the Peruvian Andes: An Application of Sensitivity Analysis in an Integrated Assessment Model. Thesis to obtain the Master of Science degree. Department of Agricultural Economics and Economics. Montana State University. April 2002.

Incorporation of Risk Analysis in the economic evaluation of Agricultural Systems of the Altiplano (Highlands). Professional thesis to obtain the title of Economist Engineer. National University of the Altiplano. Puno, Perú. 1996.

**TRAINING WORKSHOPS AND COURSES:**

Roberto O. Valdivia provides training and backstopping to several researchers and students around the world on integrated bio-physical-economic modeling using the Tradeoffs Approach and software (full version, Minimum data and multi-dimensional impact assessment versions). 2002- present. Roberto has organized, lead or co-lead multiple training courses in different regions of the world:

TOA-MD: Learning Modules support. Ongoing.

AgMIP Economics Summit Workshop. Hyderabad, India 2017.

AgMIP – China Workshop. Beijing, China, 2015.

AgMIP – III Latin America Workshop. Manizales, Colombia, 2015.

TOA-MD Training Course “Regional integrated Assessment Methods for Climate Change Impact Assessment”. Workshop scheduled: Victoria Falls, Zimbabwe. June 22-30, 2015.

TOA-MD Training Workshop “Modeling Crop-Livestock Systems”. Addis Ababa, Ethiopia, 2014.

AgMIP – Sub-Saharan Africa and South Asia Finish Line Workshop. Arusha, Tanzania. 2014.

AgMIP – Peru: Regional Integrated Assessments Workshop, Puno, Peru. October, 2014

AgMIP – Latin America Workshop. Campinas, Sao Paulo, Brazil, 2013.

AgMIP – Peru Kickoff Workshop, Lima, Peru. September 16-20, 2013

AgMIP – South Asia Midterm Workshop. Kathmandu, Nepal. July 21-26, 2013.

AgMIP – Sub-Saharan Africa Midterm Workshop. Pretoria, South Africa. July 14-19, 2013.

TOA-MD Training Workshop. Project: “Enhancing Climate Change Adaptation in Agriculture and Water Resources in the Greater Horn of Africa”- IDRC Climate Change and Water Program and African Adaptation Research Centres Initiative CCW- AARC. Dar Es Salaam, Tanzania. July 10-12, 2003.

II Global TOA-MD Course. March – June 2013. Oregon State University

AgMIP - TOA-MD Workshop for Regional Projects. Dubai, UAE, April 29-May 3, 2013.

The Royal Society of London: Satellite Scientific Meeting: Can Science help us back to the Countryside?. The Royal Society of London. Chicheley Hall, Buckinghamshire. UK. December 4-5, 2012.

AgMIP South Asia: AgMIP Regional Workshop. Colombo, Sri Lanka. November 2012.

AgMIP Sub-Saharan Africa: AgMIP Regional Workshop. Accra, Ghana. September 2012

AgMIP Sub-Saharan Africa: TOA-MD Training for Economists of regional projects. June-Present.

I Global TOA-MD Course. March – June 2012. Oregon State University

AgMIP South Asia Workshop. TOA-MD, Climate Change Impact Assessment. ICRISAT. Hyderabad, India. February 20-24, 2012.

AgMIP Sub-Saharan Africa Workshop. TOA-MD, Climate Change Impact Assessment. Fairmont Mount Kenya Hotel. Kenya. January 16-20, 2012.

- World Fish Center. TOA-MD Impact Assessment Workshop: “Ex-Ante Impact Assessment of Returns on Investments in the Fisheries and Aquaculture sector in Developing Countries” – Funded by IFAD. Penang, Malaysia, November 14-18, 2011. Conducted by Roberto Valdivia and John Antle.
- AquaFish CRSP Impact Assessment and Technology Discovery Workshop. Annual AquaFish CRSP Annual Meeting. Shanghai, China, April, 2011. Instructor.
- AquaFish CRSP Impact Assessment and Technology Discovery Project Meeting. Organized by Roberto Valdivia. Seattle, October 4-7, 2010
- Workshop on Adaptation to Climate Change and Technology Adoption. Organized and Conducted by John M. Antle, Jetse J. Stoorvogel, R.O. Valdivia and L. Claessens. ILRI Campus, Nairobi, Kenya. September 24-26, 2008.
- Tradeoff Analysis: Introduction to the full and Minimum data Models. Training Workshop at the Agricultural and Development Institute of Panama, IDIAP. Organized by the Tradeoffs Project, Montana State University and the International Potato Center. Panama City, Panama. February 14-20, 2005. R.O. Valdivia, Instructor.
- Course: “Information technology as a tool to assess land use options in space and time”. International Potato Center (CIP) - Consortium for the Sustainable Development of the Andean Ecoregion. (CONDESAN). CIP Headquarters, Lima Perú. September 28 – October 04, 1997. Instructor’s Assistant.
- Course: “Simulation Models and Databases management for the DME Projects”. International Potato Center (CIP) - Consortium for the Sustainable Development of the Andean Ecoregion. (CONDESAN). CIP Headquarters, Lima Perú. March 03-07, 1997. Instructor.
- Course: “Simulation Applications for the Alternative Agriculture Systems management in the Altiplano region. International Potato Center (CIP) - Consortium for the Sustainable Development of the Andean Ecoregion. (CONDESAN). - Instituto de manejo de Agua y medio Ambiente (IMA). Cuzco, Perú. September 04-09, 1996. Walter Bowen and Roberto O. Valdivia, Instructors.
- Course: “Optimization methods applied to the Bolivian Altiplano production Systems”. Bolivian National Agricultural Research Institute (IBTA) – International Development Research Center (IDRC-Canada). February 01-04.1995. La Paz, Bolivia. Instructor.
- Course: “Use of Bio-mathematical models in production Systems”. Bolivian National Agricultural Research Institute (IBTA) – International Development Research Center (IDRC-Canada). January 21-26, 1994. La Paz, Bolivia. Assistant.

## MEDIA AND OUTREACH

- Press release and interview:* International experts will share key developments in sustainable agriculture and food security in the face of climate change. AgMIP7. Published by IICA and re-published by several media in Latin America. Main Link:  
<http://www.iica.int/en/press/news/international-experts-will-share-key-developments-sustainable-agriculture-and-food>
- Interview:* “Hola Eje” Morning talk show in Colombia. Topic: Climate Change and Agriculture. Manizales, Colombia. October 2, 2015. (MP4 available upon request).
- Interview:* CNN-Chile and other local media. Topic: Climate Smart Agriculture. Santiago de Chile, October 6, 2015.
- Interview and Article:* published in the “El Campo” Magazine and in “El Mercurio” Newspaper (the major newspaper in Chile).
- <http://impresaelmercurio.com/Pages/NewsDetail.aspx?dt=2015-10-19&dtB=03-05-2018%200:00:00&PaginaId=8&SupplementId=6&bodyid=0> (2 pages)
  - <http://diario.elmercurio.com/detalle/index.asp?id={e2e4bb7f-50da-4e22-9725-d5f3991135fd}>
- Article about AgMIP published in: Jornal Dia de Campo, Informação que Produz. Brazil, 2013.*

<http://www.diadecampo.com.br/zpublisher/materias/Materia.asp?id=29126&secao=Artigos%20Especiais>

Article: *Climate Change and the Paris Agreement*. Published by *Diario El Perfil*, Argentina. October 24, 2015.

Article: *Increasing global Temperature*. Published by “Super Campo” Magazine, Argentina. October 27, 2010. <http://supercampo.perfil.com/2015/10/si-no-se-reducen-las-emisiones-la-temperatura-global-subiria-4/>

Press release: *International Workshop” Climate Change Impact Assessment in the Andean Region*. National Meteorology and Hydrology Service (SENAMHI), Peru. Lima, Perú. December 18, 2015.

Article: Science-policy dialogue around future farming ‘scenarios’ for climate smart agriculture. In *Agri-buzz*, ICRISAT. <https://bit.ly/2w4vMFr>. International Crops Research Institute for the Semi-Arid Tropics. Matopos, Bulawayo, Zimbabwe.

Interviews: Radio and TV round of questions about climate change. Puno, Peru. 2013.

Article: *Zimbabwean Farmers Equipped to Face Future Shocks and Fight Poverty*. Article about RAPs. January 22, 2018. Zimbabwe. <http://accckf.org.zw/zimbabwean-farmers-equipped-face-future-shocks-fight-poverty/>

### DEVELOPMENT OF TOOLS AND SOFTWARE:

TOA-MD 6.1 (Excel version): Tradeoffs for Multi-Dimensional Impact Assessment. 2016. J. Antle and Valdivia R.

TOA-MD 6.0b (Excel version): Tradeoffs for Multi-Dimensional Impact Assessment. 2014. Valdivia R. and J. Antle

DevRAP v1.0: Tool to develop Representative Agricultural Pathways. 2012. Valdivia Roberto, and John M. Antle. AgMIP.

TOA-MD 5.0: Tradeoffs for Multi-Dimensional Impact Assessment. 2010-2011. Valdivia R. and J. Antle.

TOA-MD\_AF: Minimum Data model adapted for aquaculture analysis. 2010. J. Antle and R. Valdivia.

TOA-MD v4.0: Minimum Data model for adoption and Ecosystem Services. MS-Excel-VBA Application. 2009-2010. Valdivia R. and J. Antle.

Trade-offs Minimum Data Model Excel-VBA based application. Versions v1-v3. Tradeoffs Project, Montana State University. Project funded by USAID Soil Management Collaborative Research Support Program (SM-CRSP). 2006-2009. Valdivia R.O. and John M. Antle.

Risk Analysis 2.0. Software developed to conduct risk analysis for policy decisions. International Potato Center (CIP)– International Livestock Research Institute (ILRI). Lima, Peru. 2002 (A new version has been updated on 2006). Valdivia, R.O.; Velarde, C.L. & Guerrero, Jose.

Computerized System to follow up and analyze the behavior of farmer families in the Bolivian Highlands: SYSPRO. Versions: 2.0 and 3.0. Bolivian National Agricultural Research Institute (IBTA) – International Development Research Center (IDRC-Canada). La Paz, Bolivia 1994. Valdivia, R.O. & Quiroz, R.

Computerized System for the Agricultural Systematization Guide. Consejo Andino de Manejo Ecológico. CAME. Puno, Perú. 1993. Valdivia, R.O.

Computerized Network System for Students Control: Instituto Técnico de Inglés, INTECI. Arica, Chile. 1991. Valdivia, R.O.

### ASSOCIATIONS:

Agricultural and Applied Economics Association (AAEA). Since 2003.

Latin American and Caribbean Association of Environmental and Resource Economists (ALEAR) 2003

Association of Environmental and Resource Economists (AERE), since 2003

International Association of Agricultural Economists (IAAE), since 2005  
Australian Agricultural Economics Society (AAES), since 2012  
American Society of Agronomy (ASA), Since 2014  
Austrian Society of Agricultural Economics (OGA), 2014-2015  
American Geo-physical Union (AGU), Since 2013  
Peruvian Engineer College –Chapter of Economist Engineers. since 1998.  
Member of Peru – TESOL Association: Teachers of English to Students of Other Languages. June 1995 - June 1996.  
ROTARACT Club Puno, ROTARY International. Member 1992-1995.  
Board Member, Peruvian National Association of Boy Scouts, Site Puno. 1991-1993 (Associated since 1979).

### LANGUAGES:

Spanish, English plus some knowledge of others (French, Italian, and Portuguese).

### SOFTWARE KNOWLEDGE

- DSSAT, Decision Support System for Agro technology Transfer: Crop Simulation software
- SAS, Statistical Analysis Software
- LP88, BLP88, and LINDO, Linear Programming software
- SPSS, Statistical Analysis software
- STATA, Statistical Analysis software
- R, RWeb, Statistical software
- TSP, Statistical and Econometric software
- DREAM, Economic Simulation Model used in agricultural Research
- ALES, Simulation Model to conduct Economic Land use evaluations
- SIMILE, Object-oriented programming language
- VISUAL FOXPRO, database management and programming language
- VISUAL BASIC, database management and programming language
- C++, Programming Language
- FORTRAN, Programming language
- EPIC, Simulation Model (Environmental Policy Integrated Climate)
- IDRISI, GIS and Image Processing Software
- ARCGIS/ARCMAP, GIS software
- PACTA, Risk Analysis software
- RISK, Risk Analysis software
- TOA, Tradeoffs Analysis Software
- SHAZAM, Econometric software
- CARATA, Simulation Model: Minimum Cost Ration for Ruminants
- Life-Sim, Simulation model for ruminants
- Microsoft Office (Word, Excel, Access, PowerPoint, etc).
- Others