

Richard D. Rheingans

Goodnight Family Department of Sustainable Development
Appalachian State University
ASU Box 32080
Boone, NC 28609-2080
(828) 262-7248
rheingansrd@appstate.edu

Education

Yale School of Forestry and Environmental Studies

Doctor of Forestry and Environmental Studies, May 1996; September 1992 - May 1996

Yale University

Master of Arts in International Relations, May 1992; September 1990 - May 1992

Yale University

Bachelor of Arts in Political Science, May 1987; September 1983 - May 1987

Positions

Professor and Chair, Department of Sustainable Development, Appalachian State University, July 2016 – present

Associate Professor, Department of Environmental and Global Health and Center for African Studies, University of Florida, July 2010 – July 2016.

Impact Director, SHARE Research Consortium, London School of Hygiene and Tropical Medicine, London, UK; July 2011-2014

Visiting Researcher, London School of Hygiene and Tropical Medicine, London, UK; May 2008-2014

Associate Professor, Hubert Department of Global Health, Rollins School of Public Health, Emory University, Atlanta, GA; September 2007-2010

Research Assistant Professor, Hubert Department of Global Health, Rollins School of Public Health, Emory University, Atlanta, GA; March 2000-September 2007

Director, Global Environmental Health Program, Rollins School of Public Health, Emory University, Atlanta, GA; March 2001-2006

Acting Director, Center for Global Safe Water, School of Public Health, Emory University, Atlanta, GA; Jan 2004-June 2005

Health Economist, Centers for Disease Control and Prevention/Agency for Toxic Substances and Disease Registry, Atlanta, GA; March 1998-March 2000

Post-doctoral Fellow in Prevention Effectiveness, Centers for Disease Control and Prevention / Agency for Toxic Substances and Disease Registry, Atlanta, GA; July 1996-March 1998

Research
Published Articles

1. Anderson, J., Bagamian, K., Muhib, F., Amaya, M., Laytner, L. & **Rheingans, R.** (in press). Burden of enterotoxigenic *Escherichia coli* and shigella non-fatal diarrhoeal infections in 79 low-income and lower middle-income countries: a modelling analysis, *Lancet Global Health*.
2. **Rheingans, R.**, Anderson, J., Bagamian, K. & Pecenka, C. 2018. *Effects of Geographic and Economic Heterogeneity on Rotavirus Diarrhea Burden and Vaccination Impact and Cost-effectiveness in the Lao People's Democratic Republic*, *Vaccine*, 36(51):7868-7877.
3. **Rheingans, R.**, Anderson, J., Bagamian, K., Pecenka, C., Laytner, L., Gilani, S. S. & Ahmed, M. 2018. *Effects of Geographic and Economic Heterogeneity on the Burden of Rotavirus Diarrhea and the Impact and Cost-Effectiveness of Vaccination in Pakistan*, *Vaccine*, 36(51): 7780-7789.
4. Kukla, M., McKay, N., **Rheingans, R.**, Harman, J., Schumacher, J., Kotloff, K. L., Levine, M. M., Breiman, R., Farag, T., Walker, D., Nasrin, D., Omoro, R., O'Reilly, C. & Mintz, E. 2017. The effect of costs on Kenyan households' demand for medical care: why time and distance matter., *Health policy and planning*, (vol. 32, issue 10, pp. 1397-1406).
5. Orenstein, E. W., Orenstein, L. A., Diarra, K., Djiteye, M., Sidibé, D., Haidara, F. C., Doumbia, M. F., Diallo, F., Coulibaly, F., Keita, A. M., Onwuchekwa, U., Tegueté, I., Tapia, M. D., Sow, S. O., Levine, M. M. & **Rheingans, R.** 2017. Cost-effectiveness of maternal influenza immunization in Bamako, Mali: A decision analysis., *PloS one*, (vol. 12, issue 2, pp. e0171499).
6. Simiyu, S., Swilling, M., Cairncross, S. & **Rheingans, R.** 2017. Determinants of quality of shared sanitation facilities in informal settlements: case study of Kisumu, Kenya., *BMC public health*, (vol. 17, issue 1, pp. 68).
7. Simiyu, S., Swilling, M., **Rheingans, R.** & Cairncross, S. 2017. Estimating the Cost and Payment for Sanitation in the Informal Settlements of Kisumu, Kenya: A Cross Sectional Study., *International journal of environmental research and public health*, (vol. 14, issue 1).
8. Jia P, Anderson JD, Leitner M, **Rheingans R.** 2016. High-Resolution Spatial Distribution and Estimation of Access to Improved Sanitation in Kenya. *PLoS One*, Jul 12;11(7):e0158490. doi: 10.1371/journal.pone.0158490.
9. Brown J, Cumming O, Bartram J, Cairncross S, Ensink J, Holcomb D, Knee J, Kolsky P, Liang K, Liang S, Nala R, Norman G, **Rheingans R**, Stewart J, Zavale O, Zuin V, Schmidt WP. 2015. A controlled, before and after trial of an urban sanitation intervention to reduce enteric infections in children: research protocol for the Maputo Sanitation (MapSan) study, Mozambique. *BMJ Open*, 5(6).
10. Cohen CR, Steinfeld RL, Weke E, Bukusi EA, Hatcher AM, Shiboski S, **Rheingans R**, Scow KM, Butler LM, Otieno P, Dworkin SL, Weiser SD. Shamba Maisha: Pilot agricultural intervention for food security and HIV health outcomes in Kenya: design, methods, baseline results and process evaluation of a cluster randomized controlled trial. 2015. *Springerplus* 4(12).
11. Caruso B, Dreibelbis R, Awino Ogutu E, **Rheingans R** (2014) If you build it will they come? Factors influencing rural primary pupils' urination and defecation practices at school in western Kenya, *Journal of Water, Sanitation and Hygiene for Sustainable Development*, 4(4): 642-53.
12. **Rheingans R**, Anderson J, Anderson B, Chakraborty P, Atherly D, Pindolia D. 2014.

- Estimated impact and cost-effectiveness of rotavirus vaccination in India: Effects of geographic and economic disparities, *Vaccine* 32(S1):A140-50.
13. Garn J, Caruso B, Drews-Botsch, Kramer M, Brumback B, **Rheingans R**, Freeman M. 2014. Factors associated with pupil toilet use in Kenyan primary schools. *Int. J. Environ Res. Public Health*, 11(9):9694-711.
 14. **Rheingans R**, Amaya M, Anderson J, Chakraborty P, Atem J. 2014. Systematic Review of the Economic Value of Diarrheal Vaccines, *Human Vaccines and Immunotherapeutics*, 10(6):1582-94.
 15. Caruso B, Freeman M, Garn J, Dreibelbis R, Saboori S, Muga R, **Rheingans R**. 2014. Assessing the impact of a school-based latrine cleaning and handwashing program on pupil absence in Nyanza Province, Kenya: A cluster-randomized trial. *Tropical Medicine and International Health*, 19(10):1185-97
 16. Alexander KT, Oduor C, Nyothach E, Laserson KF, Amek N, Eleveld A, Mason L, **Rheingans R**, Beynon C, Mohammed A, Ombok M, Obor D, Odhiambo F, Quick R, Phillips-Howard PA. 2014. Water, Sanitation and Hygiene Conditions in Kenyan Rural Schools: Are Schools Meeting the Needs of Menstruating Girls? *Water.*; 6(5):1453-1466.
 17. **Rheingans R**, Anderson JD, Luyendijk R, Cumming O. 2014. Measuring disparities in sanitation access: Does the measure matter? *Tropical Medicine and International Health*. 19(1):2-13.
 18. Garn JV, Greene LE, Dreibelbis R, Saboori S, **Rheingans R**, Freeman M. 2013. A cluster-randomized trial assessing the impact of school water, sanitation, and hygiene improvements on pupil enrollment and gender parity in enrollment, *Journal of Water, Sanitation and Hygiene for Sustainable Development*, 3(4) doi: 10.2166/washdev.2013.217.
 19. Vandermeer K, Dreibelbis R, Okoko DA, **Rheingans R**. 2013. Pot chlorination of shallow wells in a peri-urban community in Kenya: An effectiveness trial, *Journal of Water, Sanitation and Hygiene for Sustainable Development*. 3(4): 592-601. doi:10.2166/washdev.2013.238
 20. Brumback B, He Z, Prasa M, Freeman M, **Rheingans R**. 2013. Using structural nested models to estimate the effect of cluster-level adherence on individual-level outcomes with a three-armed cluster-randomized trial. *Statistics in Medicine*. 33(9):1490-502. doi: 10.1002/sim.6049
 21. Mason L, Nyothach E, Alexander KT, Odhiambo FO, Eleveld A, Vulue J, **Rheingans R**, Laserson KF, Mohammed A, Phillips-Howard PA. 2013. 'We keep it secret so no one should know' - A qualitative study to explore young schoolgirls attitudes and experiences with menstruation in rural western Kenya. *PLoS One*, 8(11): e79132. doi: 10.1371/journal.pone.0079132.
 22. Verguet S, Murphy S, Anderson B, Johansson KA, Glass R, **Rheingans R**. 2013. Public finance of rotavirus vaccination in India and Ethiopia: an extended cost-effectiveness analysis. *Vaccine*, 31(42):4902-10. doi: 10.1016/j.vaccine.2013.07.014.
 23. Freeman MC, Clasen T, Brooker S, Akoko D, **Rheingans RD**. 2013. The impact of a school-based hygiene, water treatment, and sanitation intervention on reinfection with soil transmitted helminths in western Kenya: a cluster-randomized trial. *American Journal of Tropical Medicine and Hygiene*, 89(5):875-83. doi: 10.4269/ajtmh.13-0237.
 24. Alexander K, Dreibelbis R, Freeman MC, Ojeny B, **Rheingans R**. 2013. Improving service delivery of water, sanitation, and hygiene in primary schools: a cluster-randomized trial in western Kenya, *Journal of Water and Health*. 11(3):507-19. doi: 10.2166/wh.2013.213.
 25. Dreibelbis R, Freeman MC, Greene LE, Saboori S, **Rheingans R**. 2013. The impact of school-based water, sanitation, and hygiene improvements on diarrhea and clinic visits

- among young siblings of school-going children: results from a cluster-randomized trial. *American Journal of Public Health*, e1-e7. doi:10.2105/AJPH.2013.301412.
26. Saboori S, Greene L, Moe CL, Freeman MC, Caruso BA, Akoko D and **Rheingans RD**. 2013. Impact of regular soap provision to primary schools on hand washing and *E. coli* hand contamination among pupils in Nyanza Province, Kenya: A cluster-randomized trial. *American Journal of Tropical Medicine and Hygiene*, 89(4):698-708. doi: 10.4269/ajtmh.12-0387.
 27. Freeman MC, Clasen T, Dreibelbis R, Saboori S, Greene LE, Brumback B, Muga R, **Rheingans R**. 2013. The impact of a school-based water supply and treatment, hygiene, and sanitation programme on pupil diarrhoea: A cluster-randomized trial. *Epidemiology and Infection*, available on CJO2013. doi:10.1017/S0950268813001118.
 28. Dreibelbis R, Greene LE, Freeman MC, Saboori S, Chase, R, **Rheingans R**. 2013. Water, sanitation, and primary school attendance: a multi-level assessment of determinants of household-reported absence in Kenya. *International Journal of Educational Development* 33:1.
 29. **Rheingans R**, Kukla M, Faruque ASG, Sur D, Zaidi A, Nasrin D, Farag T, Levine MM, Kotloff KL. 2012. Determinants of household costs associated childhood diarrhea in three South Asian settings. *Clinical Infectious Diseases* 55:S4: S317-326.
 30. **Rheingans R**, Kukla M, Adegbola R, Alonso P, Saha D, Sow SO, Nasrin D, Farag T, Levine MM, Kotloff KL. Exploring household economic impacts of childhood diarrheal illnesses in three African settings. *Clinical Infectious Diseases* 55:S4: S327-336.
 31. Greene L, Saboori S, Freeman M, Dreibelbis R, Caruso B and **Rheingans R**. 2012. Impact of school water, sanitation intervention on fecal hand contamination in western Kenya. *Am J Trop Med Hyg* 87(3):385-93.
 32. **Rheingans RD**, Anderson, JD and Atherly, D. 2012. Distributional impact of rotavirus vaccination in GAVI-eligible countries: Estimating disparities in benefits and cost-effectiveness. *Vaccine* 30(Supp1): pp. A15-A23.
 33. Atherly D, Parashar U, Tate J and **Rheingans, RD**. 2012. Projected health and economic impact of rotavirus vaccination in GAVI-eligible countries. *Vaccine* 30(Supp1): pp. A7-A14.
 34. Stevenson EGJ, Greene LE, Maes KC, Ambelu A, Tesfaye YA, **Rheingans RD** and Hadley C. Water insecurity in 3 dimensions: An anthropological perspective on water and women's psychosocial distress in Ethiopia. 2012. *Social Science & Medicine* 75(2012) pp. 392-400
 35. Freeman MC, Greene LE, Dreibelbis R, Saboori S, Muga R, Brumback B and **Rheingans RD**. 2012. A cluster-randomized trial assessing the impact of a school-based water treatment, hygiene program, and sanitation program on pupil absence in Nyanza Province, Kenya. *Tropical Medicine and International Health* 17(3) pp. 380-391.
 36. McMahon SA, Caruso BA, Obure AF, Okumu F and **Rheingans RD**. 2011. Anal cleansing practices and fecal contamination: a preliminary investigation of behaviors and conditions in schools in rural Nyanza province, Kenya. *Trop Med Int Health*. 2011 Sep 12. doi: 10.1111/j.1365-3156.2011.02879 pp.1536-1540
 37. McMahon SA, Winch PJ, Caruso BA, Obure AF, Ogutu EA, Ochari IA and **Rheingans RD**. 2011. The girl with her period is the one to hang her head' Reflections on menstrual management among schoolgirls in rural Kenya. *BMC Int Health Hum Rights*. 16;11 (1): 7.
 38. Saboori S, Mwaki A, Porter SE, Okech B, Freeman MC and **Rheingans RD**. 2011. Sustaining School Hand Washing and Water Treatment Programs: Lessons Learned and to be Learned. *Waterlines*. pp.298-311
 39. Smith ER, Rowlinson EE, Iniguez V, Etienne K, Rivera R, Mamani N, **Rheingans R** and Leon JS. 2011. Cost-effectiveness of rotavirus vaccination in Bolivia from the state

- perspective. *Vaccine*. pp 6704-6711
40. Saboori S, Mwaki A and **Rheingans RD**. 2010. Is Soapy water a viable solution for hand washing in schools? *Waterlines*, 29(4), pp. 329-336.
 41. Freeman MC, Quick R, Abbott D, Ogutu P and **Rheingans RD**. 2010. Increasing equity of access to point-of-use water treatment products through social marketing and entrepreneurship: A case study in Western Kenya. *Journal of Water and Health*. 7(3): pp. 527-534.
 42. **Rheingans RD**, Antil L, Dreibelbis R, Podewils LJ, Bresee JS and Parashar UD. 2009. Economic Costs of Rotavirus Gastroenteritis and Cost-Effectiveness of Vaccination in Developing Countries. *Journal of Infectious Diseases*;200: pp. S16–S27
 43. Atherly D, Dreibelbis R, Parashar UD, Levin C, Wecker J and **Rheingans RD**. 2009. Rotavirus Vaccination: Cost-Effectiveness and Impact on Child Mortality in Developing Countries. *Journal of Infectious Diseases*; 200: pp. S28–S38
 44. Tate JE, **Rheingans RD**, O'Reilly CE, Obonyo B, Burton DC, Tornheim JA, Adazu K, Jaron P, Ochieng B, Kerin T, Calhoun L, Hamel M, Laserson K, Breiman RF, Feikin DR, Mintz ED and Widdowson M. 2009. Rotavirus Disease Burden and Impact and Cost-Effectiveness of a Rotavirus Vaccination Program in Kenya. *Journal of Infectious Diseases*;200: pp. S76–S84
 45. Flem ET, Latipov R, Nurmatov ZS, Xue Y, Kasymbekova KT and **Rheingans RD**. 2009. Costs of Diarrheal Disease and the Cost-Effectiveness of a Rotavirus Vaccination Program in Kyrgyzstan. *Journal of Infectious Diseases* 2009;200: pp. S195–S202
 46. Constenla D, Velázquez FR, **Rheingans RD**, Antil L and Cervantes Y. 2009. Economic impact of a rotavirus vaccination program in Mexico. *Rev Panam Salud Publica*. 25(6): pp. 481-490.
 47. Constenla D, Linhares A, **Rheingans RD**, Antil L, Waldman EA and da Silva LJ. 2008. Economic impact of a rotavirus vaccine in Brazil. *J Health Popul Nutr*. 26(4): pp. 388-396.
 48. Constenla D, Ortega-Barría E, **Rheingans RD**, Antil L and Sáez-Llorens X. 2008. Impacto económico de la vacuna antirrotavirus en Panamá. *An Pediatr (Barc)*. 2008;68(2): pp.128-135.
 49. **Rheingans RD**, Constenla D, Antil L, Innis BL and Breuer T. 2007. Economic and Health Burden of Rotavirus Gastroenteritis in Latin America. *J Pan Am Health Org*, 21(4): pp. 192-204.
 50. **Rheingans RD**, Constenla D, Antil L, Innis BL and Breuer T. 2007. Cost-effectiveness of Vaccination for Rotavirus Gastroenteritis in Latin America. *J Pan Am Health Org*, 21(4): pp. 205-216.
 51. Goldman AS, Guisinger VH, Aikins M, Amarillo ML, Belizario VY, Garshong B, Gyapong J, Kabali C, Kamal HA, Kanjilal S, Kyelem D, Lizardo J, Malecela M, Mubyazi G, Nitiéma PA, Ramzy RM, Streit TG, Wallace A, Brady MA, **Rheingans R**, Ottesen EA, Haddix AC. 2007. National mass drug administration costs for lymphatic filariasis elimination. *PLoS Negl Trop Dis*. 2007 Oct 31;1(1):e67.
 52. Constenla D, Pérez-Schael I, **Rheingans RD**, Antil L, Salas H and Yarzabal JP. 2006. Evaluación del impacto económico y del costo-efectividad de la vacuna anti-rotavirus en Venezuela. *Rev Panam Salud Publica*, 20(4): pp. 213-222.
 53. Constenla D, Rivera M, **Rheingans RD**, Antil L and Vásquez ML. 2006. Evaluación económica de una eventual incorporación de la vacuna anti-rotavirus en el calendario de vacunación infantil en Honduras. *Rev Med Hond*, 74(1): pp. 19-28.
 54. Isakbaeva ET, Musabaev E, Antil L, **Rheingans RD**, Juraev R, Glass RI and Bresee JS 2006. Rotavirus disease in Uzbekistan: Cost-effectiveness of a new vaccine. *Vaccine*, 25(2): pp. 373-380.

55. Constenla D, O'Ryan M, Navarrete MS, Antil L and **Rheingans R**. 2006. Evaluación de costo-efectividad de la vacuna anti-rotavirus en Chile. *Revista Médica de Chile*, 134(6): pp. 679-688.
56. **Rheingans RD**. 2006. Economic evaluation of rotavirus vaccination in Europe: What makes sense? *Journal of Pediatric Infectious Diseases*, 25(1S): pp. S48-S55.
57. Moe C and **Rheingans RD**. 2006. Global challenges in water, sanitation and health. *Journal of Water and Health*, 4(S): pp. 41-57.
58. **Rheingans RD**, Dreibelbis R and Freeman M. 2006. Beyond the Millennium Development Goals: Public Health Challenges in Water and Sanitation. *Global Public Health*, 1(1): pp. 31-48.
59. Fischer T,K, Anh DD, Antil L, Cat NDL, Kilgore PE, Thiem VD, **Rheingans RD**, Tho LH, Glass RI and Bresee JS. 2005. Health Care Costs of Diarrheal Disease and Estimates of the Cost-Effectiveness of Rotavirus Vaccination in Vietnam. *Journal of Infectious Disease*, pp. 192: 1720-1726.
60. Walker D and **Rheingans RD**. 2005. Cost-effectiveness of rotavirus vaccines. *Expert Review of Pharmacoeconomics and Outcomes Research*, 5(5): pp. 593-601.
61. Beau de Rochars M, Kanjilal S, Direny A, Radday J, Lafontant J, Mathieu E, **Rheingans RD**, Haddix A, Streit T, Beach M, Addiss D and Lammie P. 2005. The Leogane, Haiti Demonstration Project: Decreased microfilaremia and program costs after three years of mass drug administration. *American Journal of Tropical Medicine and Health*, 73(5): pp. 888-894.
62. Podewils LJ, Antil L, Hummelman E, Bresee J, Parashar UD and **Rheingans RD**. 2005. Projected cost-effectiveness of rotavirus vaccination of children in Asia. *Journal of Infectious Diseases*, 192(51): pp. S133-S45.
63. **Rheingans RD**, Haddix AC, Messonnier ML, Meltzer M, Mayard G and Addiss DG. 2004. Willingness to pay for prevention and treatment of lymphatic filariasis in Leogane, Haiti. *Filarial Journal*, 3(2): pp. 1-11.
64. Addiss DG, **Rheingans RD**, Twum-Danso NAY and Richards FO. 2003. A framework for decision-making for mass distribution of Mectizan in areas endemic for Loa loa. *Filarial Journal*, 2(S9): pp. 1-11.
65. Haggard J, **Rheingans RD**, Arroyo P and Alvarado B. 2003. Benefits and costs of intercropping reforestation in the Atlantic lowlands of Costa Rica. *New Forests*, 25(1): pp. 41-48.
66. McLaughlin SI, Radday J, Michel MC, Addiss DG, Beach MJ, Lammie PJ, Lammie J, **Rheingans RD** and LaFontant J. 2003. Frequency, severity, and costs of adverse reactions following mass treatment for lymphatic filariasis using Diethylcarbamazine and Albendazole in Leogane, Haiti, 2000. *American Journal of Tropical Medicine and Hygiene*, 68: pp. 568-573.
67. Montagnini F, Gonzalez E, **Rheingans RD** and Porras C. 1995. Mixed and pure forest plantations in the humid neotropics: a comparison of growth, production and pest damage. *Commonwealth Forestry Review*. 74: pp. 306-314.
68. Guariguata MR, **Rheingans RD** and Montagnini F. 1995. Patterns of understory woody invasion in plantations of native tree species in lowland Costa Rica: implications for restoration. *Restoration Ecology*. 3: pp. 252-260.

Refereed Proceedings

1. Haggard J, **Rheingans R**, Arroyo P, and Alvarado B. 1999. Integrating biological, economic and farmer evaluation of plantation intercropping in Costa Rica. In Multi-strata agroforestry systems with perennial crops. Proceedings of the International Symposium (CATIE, Turrialba, Costa Rica, February 22-27, 1999). Jiménez F, Beer J (Eds), Turrialba: CATIE, pp. 247-250.
2. Haggard J, Alvarado B and **Rheingans RD**. 1996. Proyecto Agroforestal Sarapiqueño. In Memoria. Taller Nacional sobre Especies Forestales Nativas, Calvo J, Haggard J, and Arroyo P

(Eds), Estación Biológica La Selva, Puerto Viejo, Sarapiquí, Costa Rica, November 2-3, 1995, Cartago: Instituto Tecnológico de Costa Rica, pp. 61-62.

3. Montagnini F, Gonzalez E, Porras C, **Rheingans RD** and Sancho F. 1994. Mixed-tree plantations in the humid tropics: Growth, litterfall and economics of experimental systems in Latin America. In IUFRO International Symposium on Growth and Yield of Tropical Forests. Fuchu, Tokyo Japan, September 26 - October 1, 1994, Tokyo: Tokyo University of Agriculture and Technology, pp.125-135.

Book Chapters

1. Helian S*, Brumback BA, Freeman MC, **Rheingans R** (2015). Structural Nested Models for Cluster-Randomized Trials. In *Statistical Causal Inferences and Their Applications in Public Health Research*, eds. He H, Wu P, Chen DG. Springer.
2. **Rheingans R.** (2005). Energy production, in Environmental Health: From local to global, Frumkin H (Ed), Josey Bass Publishers: San Francisco, pp. 362-86.
3. **Rheingans R.** (2003). Computer software for prevention effectiveness analysis, in Prevention Effectiveness, Haddix A, Teutsch S, Corso P (Eds), Oxford University Press: Oxford, pp. 214-16.

Technical Reports and Working Papers

- Rheingans, R., Anderson, J. & Amaya, M. Potential economic impact of ETEC and Shigella on long-term economic outcome and the potential full economic value of vaccination.
- Ryan, S., Bagamian, K., Rheingans, R. & Cumming, O. An exploratory validation of the WASH PRM for the Democratic Republic of Congo, Haiti, and Tajikistan. Washington, DC: World Bank
- Bagamian, K., Rheingans, R., Ryan, S. & Cumming, O. Exploring the Sensitivity of the WASH Poverty Risk Model to Exposure Assumptions: Nigeria Case Study. Washington, DC: World Bank.
- Rheingans, R., Bagamian, K., Anderson, J., Ryan, S., Laytner, L., McNamara, K., Amaya, M., Watson, J. & Cumming, O. WASH Poverty Diagnostic: Poverty Risk Model Assessment: Bangladesh. Washington, DC: World Bank.
- Rheingans, R., Bagamian, K., Anderson, J., Ryan, S., Laytner, L., McNamara, K., Amaya, M., Watson, J. & Cumming, O. WASH Poverty Diagnostic: Poverty Risk Model Assessment: Democratic Republic of the Congo. Washington, DC: World Bank.
- Rheingans, R., Bagamian, K., Anderson, J., Ryan, S., Laytner, L., McNamara, K., Amaya, M., Watson, J. & Cumming, O. WASH Poverty Diagnostic: Poverty Risk Model Assessment: Ecuador. Washington, DC: World Bank.
- Rheingans, R., Bagamian, K., Anderson, J., Ryan, S., Laytner, L., McNamara, K., Amaya, M., Watson, J. & Cumming, O. WASH Poverty Diagnostic: Poverty Risk Model Assessment: Ethiopia. Washington, DC: World Bank.
- Rheingans, R., Bagamian, K., Anderson, J., Ryan, S., Laytner, L., McNamara, K., Amaya, M., Watson, J. & Cumming, O. WASH Poverty Diagnostic: Poverty Risk Model Assessment: Haiti. Washington, DC: World Bank.
- Rheingans, R., Bagamian, K., Anderson, J., Ryan, S., Laytner, L., McNamara, K., Amaya, M., Watson, J. & Cumming, O. WASH Poverty Diagnostic: Poverty Risk Model Assessment: Mozambique. Washington, DC: World Bank.
- Rheingans, R., Bagamian, K., Anderson, J., Ryan, S., Laytner, L., McNamara, K., Amaya, M.,

Watson, J. & Cumming, O. WASH Poverty Diagnostic: Poverty Risk Model Assessment: Nigeria. Washington, DC: World Bank.

Rheingans, R., Bagamian, K., Anderson, J., Ryan, S., Laytner, L., McNamara, K., Amaya, M., Watson, J. & Cumming, O. WASH Poverty Diagnostic: Poverty Risk Model Assessment: Pakistan. Washington, DC: World Bank.

Rheingans, R., Bagamian, K., Anderson, J., Ryan, S., Laytner, L., McNamara, K., Amaya, M., Watson, J. & Cumming, O. WASH Poverty Diagnostic: Poverty Risk Model Assessment: Tajikistan. Washington, DC: World Bank.

Dissertation

Rheingans, R. 1996. The ecological, economic and political effects of plantation intercropping on small farm forestry in the Atlantic lowlands of Costa Rica, Yale School of Forestry and Environmental Studies, New Haven, CT.

Selected Talks and Lectures

1. **Rheingans, R.**, “Rethinking Education on a Changing Planet”– Worldwatch Institute's 2017 EarthEd State of the World report, "Sustainability Education at Appalachian State," World Watch Institute and Office of Sustainability, Boone, NC and Web. (April 20, 2017).
2. **Rheingans, R.**, "Conversation on Politics and Science," Appalachian State University, Boone, NC. (April 19, 2017).
3. **Rheingans, R.**, WHO Stakeholder Consultation on ETEC and Shigella Burden of Disease Estimates, "Expanded effects of infection and factors effecting vaccine impact and cost effectiveness," World Health Organization, Geneva, Switzerland. (April 7, 2017).
4. **Rheingans, R.**, WHO Stakeholder Consultation on ETEC and Shigella Burden of Disease Estimates, "Spatial distribution of ETEC and Shigella Infections," World Health Organization, Geneva, Switzerland. (April 6, 2017).
5. **Rheingans, R.**, Free Speech Summit, "Panel Discussant: A discussion about resiliency and sustainability," Appalachian State University, Boone, NC. (March 29, 2017).
6. **Rheingans, R.**, "Combating Child Mortality Due to Diarrhea – Understanding Risks and Why Context Matters When Investing in WASH," World Bank, Washington, DC. (November 30, 2016).
7. **Rheingans, R.**, UNC Water and Health Conference, "Making sense of inequality in WASH, its Impact, and Service Delivery in the Era of the Sustainable Development Goals," UNC, Chapel Hill, NC. (October 14, 2016).
8. **Rheingans R.** Impact and cost-effectiveness of ETEC and Shigella vaccines. VASE Conference, Washington, DC, June 27, 2016.
9. **Rheingans R.** Burden of ETEC and Shigella infections: Long-term impacts and changing patterns. Bill and Melinda Gates Foundation, Seattle, WA, November 10, 2015.
10. **Rheingans R.** Water and Sanitation Disparities: Implications for Programs. UNICEF Course on Water and Sanitation, virtually presented to 40 UNICEF country staff, November 1, 2015.
11. **Rheingans R.** Nutritional and long-term impacts of ETEC and Shigella infections: Implications for vaccine cost-effectiveness. Vaccines for Enteric Disease International Conference, Edinburgh, Scotland, July 1, 2015.
12. **Rheingans R.** Nutritional and long-term impacts of ETEC and Shigella infections: Implications for vaccine cost-effectiveness. International Health Economics Association

- Meeting, Milan, Italy, July 7, 2015.
13. **Rheingans R.** Modeling disparities in immunization impacts, GAVI Impact Modeling Expert Working Group Meeting. GAVI/Bill and Melinda Gates Foundation, Montreux, France, May 6, 2015.
 14. **Rheingans R.** Economic impacts of Rotavirus Gastroenteritis, International Meeting on an Evaluation Framework for Rotavirus Vaccination, World Health Organization, Bill and Melinda Gates Foundation, Geneva, Switzerland, March 25, 2015.
 15. **Rheingans R.** Modeling the impacts of scaling rotavirus vaccination in GAVI eligible countries, GAVI Impact Modeling Expert Working Group Meeting. GAVI/Bill and Melinda Gates Foundation, Washington, DC, February 24, 2014.
 16. **Rheingans R.** Socio-economic and geographic determinants of impact and cost-effectiveness of rotavirus vaccination, International Conference on Vaccines for Enteric Disease, Bangkok, Thailand, November 7, 2013.
 17. **Rheingans R.** Economics of rotavirus diarrhea. National Institute of Epidemiology (India), New Delhi, India (videoconference), September 10, 2013.
 18. **Rheingans R.** Impacts and sustainability of school water, sanitation and hygiene. Tanzania Donors Coordinating Group, Dar es Salaam, Tanzania, September 9, 2013.
 19. **Rheingans R.** Impact and cost-effectiveness of rotavirus vaccination in India, International Symposium on Rotavirus Vaccines for India, New Delhi, India. May 15, 2013.
 20. **Rheingans R.** Preliminary estimates of the impact and cost-effectiveness of rotavirus vaccination in India. Bill and Melinda Gates Foundation, Seattle, WA. February 24, 2013
 21. **Rheingans R.** Distributional impact of rotavirus vaccination in GAVI eligible countries: Estimating disparities in benefits and cost-effectiveness. Sabin Vaccine Institute; 10th International Rotavirus Symposium, Bangkok, Thailand, September 2012.
 22. **Rheingans R.** Really reaching the poor: disparities and distributional impacts of vaccines and other child health and development interventions, University of Washington, Department of Global Health, Seattle, WA, May 13, 2012.
 23. **Rheingans R.** Impacts of improving sanitation for the poorest households. Sanitation and Water for All High Level Meeting, Pan American Health Organization, Washington, DC, April 19, 2012.
 24. **Rheingans R,** Anderson J, Showalter J, Cumming O. Towards smarter sanitation: Exploring inequities in risk and impact. World Bank, Jan 24, 2012.
 25. **Rheingans R,** Anderson J, Showalter J, Cumming O. Towards smarter sanitation: Exploring inequities in risk and impact. Bill and Melinda Gates Foundation, Jan 24, 2012.
 26. **Rheingans R,** Anderson J, Showalter J, Cumming O. Towards smarter sanitation: Exploring inequities in risk and impact. UNICEF, Jan 23, 2012.
 27. **Rheingans R,** Anderson J, Showalter J. Really reaching the poor: disparities and distributional impacts of vaccines and other child health and development interventions. UNICEF, Jan 23, 2012.
 28. **Rheingans R,** Anderson J, Showalter J, Cumming O. Towards smarter sanitation: Exploring inequities in risk and impact. USAID, Jan 22, 2012.
 29. **Rheingans R.** Measuring the impact of school water, sanitation and hygiene: the SWASH+ experience, Getting School Wash Right. Hosted by CARE International, Atlanta, GA, December 6, 2011.
 30. **Rheingans R,** Anderson J, Showalter J. Really Reaching the Poor: Disparities and Distributional Impacts of Vaccines and Other Child Health and Development Interventions. Bill and Melinda Gates Foundation, Dec 1, 2011.
 31. **Rheingans R.** Measuring immunization coverage and tracking progress, Vaccine Advocacy

- Partners Meeting sponsored by Bill and Melinda Gates Foundation, Nov 22, 2011.
32. **Rheingans R.** Heterogeneity in trial data: learning from difference, International Conference on Water and Health, University of North Carolina, Oct 31, 2011.
 33. **Rheingans R.** Sanitation and Neglected Tropical Diseases: Rediscovering the link. International Society of Infectious Diseases – NTD Conference, July 31, 2011.
 34. **Rheingans R.** What it takes to keep schools safe: Lessons from an innovative five year water, sanitation, and hygiene program in Kenya, Johns Hopkins University, School for Advanced International Studies, April 11, 2011.
 35. **Rheingans R.** Water, women and development: Water scarcity and psychosocial stress in Ethiopia, Emory University, Atlanta, GA, April 4, 2011.
 36. **Rheingans R, Brumback B.** Impact of school-based water sanitation and hygiene in Kenya: Randomized trial results. University of California Berkeley, Mar 31, 2011.
 37. **Rheingans R,** Improving sanitation impact and equity through applied research, Stockholm World Water Week, Stockholm, Sweden, September 8, 2010.
 38. **Rheingans, R.** 2008. Disparities in use of household water treatment in Madagascar: Do markets work? London School of Hygiene and Tropical Medicine, London, UK, April 30, 2008.
 39. **Rheingans, R.** 2008. Evaluating water, sanitation and hygiene interventions: What you don't know can't hurt you, right? CORE Group Spring Meeting, Atlanta, GA, April 17, 2008.
 40. **Rheingans, R.** 2008. Evaluating impacts or evaluating for impact: School WASH in Kenya. IRC Round Table on Impact Evaluation of Governance Improvements in the Water and Sanitation Sector, Delft, The Netherlands, May 13-14, 2008
 41. **Rheingans, R.** 2007. Impact of delays in immunization timing and disparities in access on the effect and cost-effectiveness of rotavirus vaccination. International Health Economics Association Congress, Copenhagen, Denmark, July 8-11, 2007.
 42. **Rheingans, R.** 2007. Disparities in access – implications for vaccine cost-effectiveness. Fourth International Conference on Vaccines for Enteric Diseases. Lisbon, Portugal, April 27, 2007.
 43. **Rheingans, R.** 2007. Access to safe water – issues of rights and disparities. World Law Institute Conference. Atlanta, GA, March 30, 2007.
 44. **Rheingans, R.** 2006. Cost-effectiveness and vaccine introduction. Presented at PRO-VAC Workshop On Economic Analysis For Decision Making On Vaccine Introduction, Immunization Unit, PAHO. Washington, DC, Sept 5-8, 2006.
 45. **Rheingans, R.** 2006. Cost-effectiveness of rotavirus vaccines. Presented at Meeting on Economic Burden of Rotavirus Disease and Cost-effectiveness of Rotavirus Vaccination. World Health Organization, Geneva, Switzerland, March 23-24, 2006.
 46. **Rheingans, R.** 2005. Global water challenges and solutions. Presented at Bioneers Conference, Atlanta, Georgia, October 2005.
 47. **Rheingans, R.** 2005. Water and health: A global perspective. Presented at National Wildlife Federation Forum on Water, Atlanta, Georgia, April 2005.
 48. **Rheingans, R.** 2005. Water and foreign policy challenges. Presented at Great Decisions Lecture Series, Roswell, Georgia, March 2005.
 49. **Rheingans, R.** 2004. Equity, water and health, Presented at Green Lunch Seminar, Emory University, Atlanta, GA, September 20, 2004.
 50. **Rheingans, R.** 2004. Equity, water and health. Presented at Environmental Engineering Seminar, Georgia Institute of Technology, Atlanta, GA, September 15, 2004.
 51. **Rheingans, R.** 2004. Healthcare costs of rotavirus diarrhea and cost-effectiveness of vaccination in Latin America and the Caribbean. TAG Meeting, Pan-American Health

- Organization, Mexico City, November 5, 2004.
52. **Rheingans, R.** 2004. Economic burden of rotavirus gastroenteritis and the cost-effectiveness of vaccination in Latin America: affordability and value. Presented at International Congress of Paediatrics, August 15- 20, 2004, Cancun, Mexico.
 53. **Rheingans, R.** 2004. Economic burden of rotavirus gastroenteritis and the cost-effectiveness of vaccination in Latin America. The 3rd International Conference on Vaccines for Enteric Diseases, April 28-30, 2004, Montego Bay, Jamaica.
 54. **Rheingans, R.,** Constenla, D. 2004. Policy implications of economic burden of rotavirus gastroenteritis and the cost-effectiveness of vaccination in Latin America” Sixth International Rotavirus Symposium, Mexico City, Mexico, July 8, 2004.
 55. **Rheingans, R.** 2003. Estimating the cost of rotavirus gastroenteritis in Asia. Annual Meeting of the Rotavirus Surveillance Network, November 2003, Manila, The Philippines.
 56. **Rheingans, R.** 2003. Economics of rotavirus diarrhea in Latin America. Regional Meeting on Implementation of Rotavirus Surveillance, September 4-5, 2003, Lima-Peru.
 57. **Rheingans, R.** 2003. Methods for assessing cost rotavirus diarrhea and the cost-effectiveness of vaccination” Asia Rotavirus Surveillance Network, Hong Kong, March 2003.
 58. **Rheingans, R.** 2002. Economics: A new policy driver for rotavirus. World Congress of Pediatric Infectious Diseases, Santiago, Chile. November 2002.
 59. **Rheingans, R.** 2002. Cost of rotavirus diarrhea and the cost-effectiveness of vaccination in Asia. Asia Rotavirus Surveillance Network, Bangkok Thailand, March 2002.
 60. **Rheingans, R.** 2001. Using decision analysis to assess vaccine safety. Presented at National Research Council, Institute of Medicine, Washington, D.C., January 11, 2001.

Externally Funded Research:

Principal Investigator: Richard Rheingans (for UF subcontract)
 Title of Project: Water and Sanitation Poverty Diagnostics
 Funding Agency: World Bank / Oxford Policy Management
 Period: 2015-2016

Principal Investigator: Richard Rheingans
 Title of Project: Effect of disparities on the impact and cost-effectiveness of rotavirus vaccine introduction in Pakistan
 Funding Agency: PATH / Bill and Melinda Gates Foundation
 Period: 2015-2016

Principal Investigator: Richard Rheingans
 Title of Project: Population density, sanitation coverage and neighborhood effects in Maputo, Mozambique
 Funding Agency: US Agency for International Development / London School of Hygiene and Tropical Medicine (LSHTM)
 Period: 2014-2016

Principal Investigator: Richard Rheingans
 Title of Project: Impact and cost-effectiveness of Shigella and ETEC vaccines in low-income countries
 Funding Agency: PATH / Bill and Melinda Gates Foundation
 Period: 2014 - 2017

Principal Investigator: Richard Rheingans
Title of Project: Evaluation of the National Sanitation Campaign in Tanzania
Funding Agency: UK Department for International Development (DfID) / London School of Hygiene and Tropical Medicine (LSHTM)
Period: 2013-2015

Principal Investigator: Richard Rheingans
Title of Project: Mechanism for socio-economic disparities in enteric disease transmission in peri-urban Kisumu, Kenya
Funding Agency: UK Department for International Development (DfID) / London School of Hygiene and Tropical Medicine (LSHTM)
Period: 2014-2015

Principal Investigator: Richard Rheingans
Title of Project: SHARE: Sanitation and Hygiene Applied Research for Equity
Funding Agency: UK Department for International Development (DfID) / London School of Hygiene and Tropical Medicine (LSHTM)
Period: 2010-2015

Principal Investigator: Babbete Brumback
Title of Project: Adjusting for Unmeasured Confounding due to Clusters in Complex Survey Design
Funding Agency: National Science Foundation
Period: 2011-2015

Principal Investigator: Richard Rheingans
Title of Project: Global burden of disease associated with Shigella and ETEC infections
Funding Agency: PATH / Bill and Melinda Gates Foundation
Period: 2014

Principal Investigator: Richard Rheingans
Title of Project: Impact and cost-effectiveness of rotavirus vaccination in India
Funding Agency: PATH / Bill and Melinda Gates Foundation
Period: 2013 - 2014

Principal Investigator: Richard Rheingans
Title of Project: Formative Research on Menstrual Hygiene Management in Bihar, India
Funding Agency: UK Department for International Development (DfID) / London School of Hygiene and Tropical Medicine (LSHTM)
Period: 2013-2014

Principal Investigator: Richard Rheingans
Title of Project: Measuring Disparities In Sanitation Related Exposures And Risks
Funding Agency: UK Department for International Development (DfID); London

Period: School of Hygiene and Tropical Medicine (LSHTM)
2012-2013

Principal Investigator: Richard Rheingans
Title of Project: Assessing Disparities in Immunization Access and Benefits:
Identifying Opportunities for Improving Impact and Value for
Money

Funding Agency: Bill and Melinda Gates Foundation
Period: 2011-2012

Principal Investigator: Richard Rheingans
Title of Project: Sustaining and Scaling School Water, Sanitation, and Hygiene
Plus Community Impact (SWASH+)

Funding Agency: CARE / Bill and Melinda Gates Foundation
Period: 2006-2012

Principal Investigator: Richard Rheingans
Title of Project: Impact and cost-effectiveness of rotavirus vaccination in GAVI
eligible countries: Updated estimates and distributional effects.

Funding Agency: PATH
Period: 2011

Principal Investigator: Richard Rheingans
Title of Project: Disparities in Water, Sanitation and Hygiene in Peri-Urban Areas
of Madagascar and Mozambique

Funding Agency: Water and Sanitation for the Urban Poor / Bill and Melinda Gates
Foundation
Period: 2009-2010

Principal Investigator: Richard Rheingans
Co-Investigators: Damian Walker (Johns Hopkins University)
Title of Project: Economic Burden of Severe Diarrhea in Low-income Countries

Funding Agency: University of Maryland / Bill and Melinda Gates Foundation
Period: 2006-2010

Principal Investigator: Richard Rheingans
Title of Project: Monitoring and Evaluating School Water, Sanitation and Hygiene
Interventions

Funding Agency: Global Water Challenge
Period: 2008-2010

Principal Investigator: Richard Rheingans
Title of Project: Monitoring and Evaluation of the PATH Safe Water Project in
India

Funding Agency: PATH / Bill and Melinda Gates Foundation
Period: 2007-2008

Principal Investigator: Richard Rheingans

Title of Project: Plan for evaluating the impact of improved governance in water and sanitation
Funding Agency: International Reference Center for Water and Sanitation (IRC), Bill and Melinda Gates Foundation
Period: 2008

Principal Investigator: Richard Rheingans
Title of Project: MWA-CGSW Data for Decision-making Partnership
Funding Agency: Millennium Water Alliance / CARE
Period: 2008

Principal Investigator: Richard Rheingans
Title of Project: Rotary Safe Water Project Evaluation
Funding Agency: Charitable Foundation of the Atlanta Rotary Club
Period: 2005-2007

Principal Investigator: Richard Rheingans
Co-Investigators: Deborah McFarland, Lance Waller
Title of Project: Disparities in Access to Household Water Treatment in Madagascar
Funding Agency: USAID / GH TECH
Period: 2007

Principal Investigator: Richard Rheingans
Title of Project: Sustainability of Community Water Systems in Honduras
Funding Agency: Water Partners International
Period: 2006

Principal Investigator: Richard Rheingans
Title of Project: Global Economic Burden of Rotavirus Diarrhea and the Cost-Effectiveness of Vaccination
Funding Agency: PATH/Rotavirus Vaccine Program
Period: 2003-2006

Principal Investigator: Richard Rheingans
Co-Investigators: Christine Moe, Rafael Flores
Title of Project: Developing A Plan To Improve Drinking Water Access Through The Global Water Initiative Of The Coca Cola Company
Funding Agency: The Coca Cola Company
Period: 2005-2006

Principal Investigator: Richard Rheingans
Co-Investigators: Anne Haddix
Title of Project: Economic Burden of Rotavirus Diarrhea in Latin America and the Cost-Effectiveness of Vaccination
Funding Agency: GSK Biologicals
Period: 2001-2005

Principal Investigator: Richard Rheingans
 Co-Investigators: Anne Haddix
 Title of Project: Economic Evaluation of LF Elimination Efforts in Haiti
 Funding Agency: University of Notre Dame / Bill and Melinda Gates Foundation
 Period: 2001-2004

Principal Investigator: Anne Haddix
 Co-Investigators: Richard Rheingans
 Title of Project: Lymphatic Filariasis Support Center at Emory
 Funding Agency: Glaxo-Smith Kline
 Period: 2000-2004

Principal Investigator: Richard Rheingans
 Co-Investigators: Anne Haddix
 Title of Project: Cost and Cost-effectiveness of Alternative Strategies for Treating MDR-TB in Peru
 Funding Agency: Partners in Health, Task Force for Child Survival / Bill and Melinda Gates Foundation
 Period: 2001-2003

Teaching

Courses taught:

- 2015- Global Public Health (PHC 3440), University of Florida
- 2010- Global Health and Development I (PHC 6732). Masters in Development Practice Program, University of Florida
- 2010- Global Health and Development II (PHC 6445). Masters in Development Practice Program, University of Florida
- 2014 Health and Society in Africa (AFS 4935), University of Florida
- 2012-3 Seminar in Environmental and Global Health, University of Florida
- 2008-10 Monitoring and Evaluation of International Health Programs (GH 560), Department of Global Health, Emory University.
- 2006-7 Global Environmental and Occupational Health (EOH 501), Department of Environmental and Occupational Health, Emory University.
- 2004-6 Water and Sanitation in Developing Countries (GH590), Department of Global Health, Emory University.
- 2005 Global Environmental Health (EOH/GH 591U), Department of Global Health, Emory University.
- 2003-4 Global Environmental Health Seminar (GH590), Department of Global Health, Emory University.
- 2003-4 Environment, Health and Development (GH591/ENVS385), Department of Global Health, Department of Environmental Studies, Emory University.
- 2002-4 Environmental Health Perspectives (International) (EOH 500), Department of Environmental and Occupational Health, Emory University.
- 1998-2002 Risk Assessment (EOH 524), Department of Environmental and Occupational Health, Emory University.

2000 Environmental Health Perspectives (Domestic) (EOH 500), Department of Environmental and Occupational Health, Emory University.

Guest Lecturer

2010- LAS 6943: Development Theory and Practice in Latin America and Practice
 2010- LAS 6940: Sustainable Development Practice
 2010- AFS 6905: Conservation and Development Practice,
 2010 Latin 6933: Roman Agriculture and Modern Sustainability
 2010-11 Public Health Concepts
 2011 Seminars in Global Health
 2011 Soils and Public Health
 2010- Water and Health
 2001-7 Perspectives in Environmental Health (Domestic) (EOH 500), Department of Environmental and Occupational Health Emory University.
 2002-7 Monitoring and Evaluation (GH 590), Department of Global Health, Emory University.
 2007-9 Water and Sanitation in Developing Countries (GH590), Department of Global Health, Emory University.
 2007 Introduction to Global Health, Department of Anthropology, Emory University.
 2007 Science and Sound of Water, Department of Environmental Studies, Emory University.
 2005 Anthropological Perspectives in Health (GH 557), Department of Global Health, Emory University.
 2005 Water: Interdisciplinary Perspectives on a Vital Element, Institute for Liberal Arts, Department of Environmental Studies, Department of Philosophy, Emory University.
 2005 Ecological Economics (ENVS 324), Department of Environmental Studies, Emory University.
 2005 Introduction to Human and Natural Ecology (ENVS 120), Department of Environmental Studies, Emory University.
 2003-4 Risk Assessment (EOH 524), Department of Environmental and Occupational Health, Emory University.
 2002-4 Toxicology (IBS 538), Department of Pharmacology, Emory University.
 2001-2 International Health Policy (IH 501), Department of Global Health, Emory University.
 1996-7 Introduction to Human and Natural Ecology (ENVS 120), Department of Biology, Emory University.

Awards and Fellowships

2015 University of Florida International Center Course Development Grant (Global Public Health)
 2015 University of Florida International Center Study Abroad Course Development Grant (Global Health Equity and Innovation in Guatemala)
 2014 University of Florida Faculty Enhancement Opportunity Award
 2012 University of Florida International Educator of the Year
 2012 Dean's Citation Award, College of Public Health and Health Professions

- 2003 University Teaching Fund Award
- 2003 Piedmont Project Environmental Teaching Award
- 2002 University Teaching Fund Award
- 2001 Research Employee of the Year, Agency for Toxic Substances and Disease Registry.
- 1998 ATSDR Data Outcomes Award, Agency for Toxic Substances and Disease Registry.
- 1997 Special Act or Service Award, Agency for Toxic Substances and Disease Registry.
- 1992-6 Yale School of Forestry and Environmental Studies, Doctoral Fellowship.
- 1993-5 Inter-American Foundation, Doctoral Field Research Fellowship.
- 1993-4 Organization for Tropical Studies, Pew Charitable Trust Dissertation Research Fellowship.
- 1993-4 Yale Center for International and Area Studies, Hart-Rice Advanced Research Fellowship.
- 1993 Agrarian Studies Center at Yale, Pre-dissertation Research Grant.
- 1993 Yale University Latin American Studies Council, Pre-dissertation Research Grant.
- 1992 Agrarian Studies Center at Yale, Summer Research Grant.
- 1992 Yale University Latin American Studies Council, Summer Travel Research Grant.
- 1990-2 Yale University, Graduate Fellowship.

Special Training and Skills

Languages: Native fluency in Spanish; Basic fluency in Portuguese