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**EDUCATION**

DOCTOR OF PHILOSOPHY, University of Pennsylvania, in Regional Science. Dissertation: Regional Production and Renewable Resource Exploitation (September 1980 - December 1984).

MASTER OF SCIENCE, University of Florida, in Environmental Engineering, with specialization in Systems Ecology (March 1974 – June 1976).

BACHELOR OF SCIENCE, University of Florida, in Chemistry (March 1971 - December 1973).

LANGUAGE PROFICIENCY in Portuguese and Spanish.

**AREAS OF SPECIALIZATION**

Land Use Change Modeling, Geo-spatial Analysis, Land-Climate Interactions

**PROFESSIONAL EXPERIENCE**

PROFESSOR, Department of Geography and Center for Latin American Studies, University of Florida (August 2014 – Present).

CORE FACULTY. Tropical Conservation and Development Program, University of Florida (August 2014 – Present).

AFFILIATE FACULTY. School of Natural Resources and the Environment (SNRE), University of Florida (August 2014 – Present).

AFFILIATE FACULTY. Nucleo de Meio Ambiente, Federal University of Pará (December 2011-Present).

PROFESSOR, Department of Geography, Michigan State University (July 2002 – August 2014).

ASSOCIATE PROFESSOR, Department of Geography, Michigan State University (August 1999 June 2002).

ASSOCIATE PROFESSOR, Department of Geography, Florida State University (August 1992-August 1999).

RESEARCH ECONOMIST, USDA Forest Service, International Institute of Tropical Forestry (August 1991- August 1993).

ASSISTANT PROFESSOR, Department of Geography, Florida State University (August 1989-July 1992).

ASSISTANT PROFESSOR, Department of Geology and Geography, West Virginia University (August 1986-August 1989).

## **RECOGNITION AND AWARDS**

Monthly Columnist, *Revista Interesse Nacional*, Brazil.

Carl O. Sauer Distinguished Scholarship Award, The Conference of Latin American Geography. 2021.

Provost's Research Promotion Initiative Award for paper in One Earth: "Avoiding Amazonian Catastrophes: Prospects for Conservation in the 21st Century."

ESRI 2014 award "Best Scientific Paper in Geographic Information Systems," 3<sup>rd</sup> place. For "Assessing the Performance of Lineal Feature Models: An approach to Computational Inference. *Photogrammetric Engineering and Remote Sensing*.

Gilbert White Fellowship. Resources for the Future. 1997-1998.

Fulbright Scholar Award. Brazil. 1997-1998.

Tribute of Appreciation. U.S. Man and the Biosphere Program. For an outstanding contribution to The Success of the U.S. Man and the Biosphere Program. 1993.

Certificate of Merit. USDA. For sustained superior performance as economist for the International Institute of Tropical Forestry. 1992.

## **RESEARCH**

### **Refereed Articles**

Walker, R.T., 2022. Tapajós. *GeoHumanities* 9(1): 122-139.

Carrero, G.C., R.T. Walker, C.S. Simmons & P.M. Fearnside. 2023. Grilagem de terras na Amazônia brasileira-1-7: política fundiária olhando para frente. *Amazônia Real*, 12 de abril de 2023.

- Carrero, G.C., R.T. Walker, C.S. Simmons & P.M. Fearnside. 2023. Grilagem de terras na Amazônia brasileira-6: Legitimação da apropriação de terras. *Amazônia Real*, 5 de abril de 2023.
- Carrero, G.C., R.T. Walker, C.S. Simmons & P.M. Fearnside. 2023. Grilagem de terras na Amazônia brasileira-5: Revindicações de terras ilegais. *Amazônia Real*, 30 de marco de 2023.
- Carrero, G.C., R.T. Walker, C.S. Simmons & P.M. Fearnside. 2023. Grilagem de terras na Amazônia brasileira-4: Analisando ilegalidade. *Amazônia Real*, 23 de marco de 2023.
- Carrero, G.C., R.T. Walker, C.S. Simmons & P.M. Fearnside. 2023. Grilagem de terras na Amazônia brasileira-3:Conjuntos de dados. *Amazônia Real*, 14 de marco de 2023.
- Carrero, G.C., R.T. Walker, C.S. Simmons & P.M. Fearnside. 2023. Grilagem de terras na Amazônia brasileira-2: Modos de apropriação da terra. *Amazônia Real*, 6 de marco de 2023.
- Carrero, G.C., R.T. Walker, C.S. Simmons & P.M. Fearnside. 2023. Grilagem de terras na Amazônia brasileira-1: Introdução a série. *Amazônia Real*, 28 de fevereiro de 2023.
- Carrero, G.C., Walker, R.T., Simmons, C.S. and Fearnside, P.M., 2022. Land grabbing in the Brazilian Amazon: Stealing public land with government approval. *Land Use Policy*, 120, p.106133.
- Galvan-Miyoshi, Y., Simmons, C., Walker, R., Osorio, G.A., Hernandez, P.M., Maldonado-Simán, E., Warf, B., Astier, M. and Waylen, M., 2022. Globalized supply chains: Emergent telecouplings in Mexico's beef economy and environmental leakages. *Global Environmental Change*, 74, p.102486.
- Vergara, D.G., Lasco, R., Walker, R., Alcantara, A., Ancog, R., Sanchez, P.A. and Tiburan Jr, C., 2021. Fragmentation Trajectories as a Review of Existing and Proposed Single-valued Fragmentation Indices. *Journal of Environmental Science and Management*, 24(2).
- Vittor, A.Y., Laporta, G.Z., Sallum, M.A.M. and Walker, R.T. 2021. The COVID-19 crisis and Amazonia's indigenous people: Implications for conservation and global health. *World Development*. doi.org/10.1016/j.worlddev.2021.105533
- Walker, R.T. 2021 Geography, von Thünen, and Tobler's First Law. *Geographical Review*. doi.org/10.1080/00167428.2021.1906670
- Walker, R.T. 2021. NAFTA's Cartel Economy. *Annals of the American Association of Geographers*, 111(1): 252-265.
- Walker, R.T. 2020. Collision Course: Development Pushes Amazonia Toward Its Tipping Point. *Environment: Science and Policy for Sustainable Development*, 63(1): 15-25.
- Astier, M., Orozco-Ramírez, Q., Walker, R., Galván-Miyoshi, Y., González-Esquivel, C. and Simmons, C.S. 2020. Post-NAFTA Changes in Peasant Land Use—The Case of the Pátzcuaro Lake Watershed Region in the Central-West México. *Land*, 9(3), p.75.
- Aldrich, S.P., Simmons, C.S., Arima, E., Walker, R.T., Michelotti, F. and Castro, E., 2020. Agronomic or

- contentious land change? A longitudinal analysis from the Eastern Brazilian Amazon. *PloS one*, 15(1), p.e0227378.3
- Walker, R.T., Simmons, C., Arima, E., Galvan-Miyoshi, Y., Antunes, A., Waylen, M. and Irigaray, M., 2019. Avoiding Amazonian Catastrophes: Prospects for Conservation in the 21st Century. *One Earth*, 1(2), pp.202-215.
- Simmons, C.S., Walker, R., Aldrich, S., Arima, E., Pereira, R., Castro, E., Michelotti, F., Waylen, M. and Antunes, A. 2019. Discipline and Develop: Destruction of the Brazil Nut Forest in the Lower Amazon Basin. *Annals of the American Association of Geographers* 109(1): 242-265.
- Simmons, C.S., Famolare, L., Macedo, M.N., Walker, R.T., Coe, M.T., Scheffers, B., Arima, E., Munoz-Carpena, R., Valle, D., Fraisse, C. and Moorcroft, P. 2018. Science in support of Amazonian conservation in the 21st century: the case of Brazil. *Biotropica* 50(6): 850-858.
- Walker, R., & Simmons, C. 2018. Endangered Amazon: An Indigenous Tribe Fights Back Against Hydropower Development in the Tapajós Valley. *Environment: Science and Policy for Sustainable Development*. 60(2): 4-15.
- Pfaff, A., Robalino, J. Reis, E., Walker, R., Perz, S., Laurance, W.F., Bohrer, C., Aldrich, S., Arima, E.Y., Caldas, M., Kirby, K. 2018. Roads & SDGs, tradeoffs and synergies: Learning from Brazil's Amazon in distinguishing frontiers, March 2018. *Economics E-Journal* 12 DOI 10.5018/economics-ejournal.ja.2018-11.
- Pereira, R., Simmons, C., and Walker, R. Smallholders, Agrarian Reform, and Globalization in the Brazilian Amazon: Cattle versus the Environment. 2017. *Land*. 5(3), 24: doi:10.3390/land5030024
- Walker, R., Arima, E., Perz, S. and Souza, C. 2016. Response to Corridors for People, Corridors for Nature. eletter in *Science*, February 3 (<http://science.sciencemag.org/content/350/6265/1166.e-letters>).
- Simmons, C, Walker, R., Perz, S., Arima, E., Aldrich, S. and Caldas, M. 2016. Spatial Patterns of Frontier Settlement: Balancing Conservation and Development. *Journal of Latin American Geography* 15(1) : 33-58.
- Walker, R. and Blackburn, J. 2015. Biothreat Reduction and Economic Development: The Case of Animal Husbandry in Central Asia. *Frontiers in Public Health* 3:270. doi: 10.3389/fpubh.2015.00270.
- Galvan-Miyoshi, Y., Walker, R., and Warf, B. 2015. Land Change Regimes and the Evolution of the Maize-Cattle Complex in Neoliberal Mexico. *Land* 4(3): 754-777.
- Arima, E. Walker, R. Perz, S. and Souza, C. 2015. Explaining the fragmentation in the Brazilian Amazonian forest. *Journal of Land Use Science* doi: 10.1080/1747423X.2015.1027797.

- Richards, P., Walker, R. and Arima, E. 2014. Spatially Complex Land Change: The Indirect Effect of Brazil's Agricultural Sector on Land Use in Amazonia. *Global Environmental Change* 29: 1-9.
- Walker, R. 2014. Sparing Land for Nature in the Brazilian Amazon: Implications from Location Rent Theory. *Geographical Analysis* 46(1): 18-36.
- Arima, E., Walker, R. and Vergara, D. 2013. Assessing the Performance of Lineal Feature Models: An Approach to Computational Inference. *Photogrammetric Engineering and Remote Sensing* 79(9): 847-855.
- Arima, E. and Walker, R. 2013. Spontaneous colonization and Forest Fragmentation in the Central Amazon Basin. *Annals of the Association of American Geographers* 103 (6): 1485-1501.
- Walker, R., Arima, E., Messina, J., Soares-Filho, B., Perz, S., Sales, M., Vergara, D., Pereira, R. and Castro, W. 2013. Modelling Spatial Decisions with Graph Theory: Logging Roads and Forest Fragmentation in the Brazilian Amazon. *Ecological Applications* 23(1): 239-254.
- Richards, P., Myers, R. J., Swinton, S. M., and Walker, R. 2012. Exchange Rates, Soybean Supply Response, and Deforestation in South America. *Global Environmental Change* 22: 454-462.
- Aldrich, S., Walker, R., Simmons, C., Caldas, M., and Perz, S. Contentious Land Change in Amazônia's Arc of Deforestation. 2012. *Annals of the Association of American Geographers* 102(1): 103-28.
- Walker, R. Simmons, C., Aldrich, S., Perz, S., Arima, E. and Caldas, M. 2011. The Amazonian Theater of Cruelty. *Annals of the Association of American Geographers* 101 (5): 1156-1170.
- Arima, E., Richards, P., Walker, R. and Caldas, M. M. 2011. Statistical Confirmation of Indirect Land Use Change in the Brazilian Amazon. *Environmental Research Letters* 6 DOI:10.1088/1748-9326/6/2/024010.
- Walker, R. 2011. The Impact of Brazilian Biofuel Production on Amazonia. *Annals of the Association of American Geographers* 101(4): 929-938.
- Leite, F. L., Caldas, M. M., Simmons, C., Perz, S. G., Aldrich, S. and Walker, R. 2011. The Social Viability and Environmental Sustainability of Direct Action Land Reform Settlements in the Amazon. *Environment. Development and Sustainability* 13(4): 773-788.
- Walker, R. and Arima, E. A. 2011. Smallholder Timber Sale Decisions along the Transamazon Highway: A comment. *Ecological Economics* 70(9): 1565-1567.
- Walker, R. 2011. The Scale of Forest Transition: Amazonia and the Atlantic forests of Brazil. *Applied Geography* 32(1): 12-20.
- Perz, S., Simmons, C., Walker, R., Leite, F., Aldrich, S. and Caldas, M. Intraregional Migration, Direct Action Land Reform, and New Land Settlements in the Brazilian Amazon. 2010. *Bulletin of Latin American Research* 29(4): 459-476.
- Caldas, M., Simmons, C., Walker, R., Perz, S., Aldrich, S., Pereira, R., Leite, F., and Arima, E. 2010. Settlement Formation and Land Cover and Land Use Change: A Case Study in the Brazilian Amazon. *Journal of Latin American Geography* 9(1): 125-144.

- Simmons, C. S., Walker, R., Perz, S., Aldrich, S., Caldas, M., Pereira, R., Fernandes, C. and Arima, E. 2010. Doing it for Themselves: Direct Action Land Reform in the Brazilian Amazon. *World Development* 38(3): 429–444.
- Pfaff, A. and Walker, R. 2010. Regional Interdependence and Forest Transitions: forest loss elsewhere limits local transitions' global relevance. *Land Use Policy* 27: 119-129.
- Walker, R., Moore, N., Arima, E., Perz, S., Simmons, C., Caldas, M., Vergara, D. and Bohrer, C. 2009. Protecting Amazônia with Protected Areas. *Proceedings of the National Academy of Sciences* 106(26): 10582–10586.
- Walker, R., Browder, J., Arima, E., Simmons, C., Pereira, R. Caldas, M., Shiota, R. and Zen, S. 2009. Ranching and the New Global Range: Amazônia in the 21<sup>st</sup> Century. *Geoforum* 40(5): 732-745.
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- Perz, S. G., Brilhante, S., Brown, F., Caldas, M., Ikeda, S., Mendoza, E., Overdevest, C., Reis, V., Reyes, J. F., Rojas, D., Schmink, M., Souza, C. and Walker, R. 2008. Road Building, Land Use and Climate Change: Prospects for Environmental Governance in the Amazon. *Philosophical Transactions of the Royal Society B* 363: 1889-1895.
- Browder, J.O., Pedlowski, M.A., Walker, R., Wynne, R.H., Summers, P.M., Abad, A., Becerra Cordoba, N. and Mil-Homens, J. 2008. Patterns of Development in the Brazilian Amazon: Deforestation, Land-Use, and Socio-economic Stratification of the Rural Work-force in Rondônia, 1992-2002. *World Development* 36(8): 1469–1492.
- Perz, S. G., Caldas, M., Walker, R., Arima, E. and Souza, C. 2008. Road Networks and Forest Fragmentation in the Amazon: Explanations for Local Differences with Implications for Conservation and Development. *Journal of Latin American Geography* 7(2): 85-104.
- Walker, R. 2008. Forest Transition without Complexity, without Scale. *The Professional Geographer* 60(1): 136-140.
- Alex de Sherbinin, VanWey, L. K., McSweeney, K., Aggarwal, R., Barbieri, A., Henry, S., Hunter, L. M., Twine, W. and Walker, R. 2008. Rural Household Demographics, Livelihoods and the Environment. *Global Environmental Change* 18(1): 38–53.
- Pontius, R.G., Walker, R., Yao-Kumah, R., Arima, E.Y., Aldrich, S. and Vergara, D. 2007. Quantitative Assessment for a Model of Amazonian Deforestation. *Annals of the Association of American Geographers* 97(4): 677-695.
- Simmons, C.S., Walker, R., Arima, E., Aldrich, S. and Caldas, M. 2007. The Amazon Land War in the South of Pará. *Annals of the Association of American Geographers* 97(3): 567-592. Republished in Portuguese as A Guerra Amazônica pela Terra no Sul do Pará. In *Sociedade, Território e Conflitos: BR-163 em Questão*, E. Castro, ed., pp. 85 – 146. Belém, PA: NAEA,

UFPA.

- Moore, N., Arima, E., Walker, R. and R. Ramos da Silva. 2007. Uncertainty and the Changing Hydroclimatology of the Amazon. *Geophysical Research Letters* 34, L14707, doi:10.1029/2007GL030157.
- Arima, E., Simmons, C.S., Walker, R. and Cochrane, M.A. 2007. Fire in the Brazilian Amazon: A Spatially Explicit Model for Policy Impact Analysis. *Journal of Regional Science* 47(3): 541-67.
- Simmons, C., Caldas, M., Aldrich, S., Walker, R. and Perz, S. 2007. Spatial Process in Scalar Context: Development and Security in the Brazilian Amazon. *Journal of Latin American Geographers* 6(1): 125-48.
- Perz, S., Overdevest, C., Caldas, M., Walker, R. and Arima, E. 2007. Unofficial Road Building in the Brazilian Amazon: Dilemmas and Models for Road Governance. *Environmental Conservation* 32(2):1-10.
- Perz, S., Caldas, M., Arima, E. and Walker, R. 2007. Unofficial Road-building in the Amazon: Socioeconomic and Biophysical Factors. *Development and Change* 38(3): 531-553.
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- Caldas, M., Walker, R., Perz, S., Arima, E., Aldrich, S. and Simmons, C. 2007. Theorizing Land Cover and Land Use Change: The Peasant Economy of Colonization in the Amazon Basin. *Annals of the Association of American Geographer* 97(1): 86-110.
- Perz, S.G., Walker, R. and Caldas, M. 2006. Beyond Population and Environment: Household Life Cycle Demography and Land Use Allocation among Small Farm Colonists in the Amazon. *Human Ecology* 34(6): 829-849.
- Machamer, P.L., Simmons, C.S. and Walker, R. 2006. Refining Landscape Change Models through Outlier Analysis in the Muskegon Watershed of Michigan. *Landscape Research* 31(3): 277-294.
- Aldrich, S., Walker, R., Arima, E., Caldas, M., Browder, J. and Perz, S. 2006. Land-Cover and Land-Use Change in the Brazilian Amazon: Smallholders, Ranchers, and Frontier Stratification. *Economic Geography* 82(3): 265-288.
- Perz, S., Arima, E., Souza, C., Caldas, M., Brandão, A., Araújo de Souza, F.K. and Walker, R. 2005. O Dilema das Estradas Não-oficiais na Amazônia. *Ciencia Hoje* 37(222-December): 56-58.
- Arima, E., Walker, R., Perz, S. and Caldas, M. 2005 Loggers and Forest Fragmentation: Behavioral models of road building in the Amazon basin. *Annals of the Association of American Geographers* 95(3): 525-541.
- Simmons, C., Walker, R., and Wood, C., Arima, E. and Cochrane, M. 2004. Wildfires in Amazônia: A Pilot Study Examining the Role of Farming Systems, Social Capital, and Fire Contagion. *Journal of Latin American Geography* 3(1): 81-96.

- Walker, R., Drzyzga, S., Li, Y., Qi, J., and Caldas, M., Qi, J., Arima, E. and Vergara, D. 2004. A Behavioral Model of Landscape Change in the Amazon Basin: The Colonist Case. *Ecological Applications* 14 (4) Supplement: S299-S312.
- Walker, R. 2004. Theorizing Land Cover and Land Use Change: The Case of Tropical Deforestation. *International Regional Science Review* 27(3): 247-270.
- Walker, R. and Solecki, B. 2004. Theorizing Land Cover and Land Use Change: The Case of the Florida Everglades and its Degradation. *Annals of the Association of American Geographers* 94(2): 311-328.
- Caldas, M., Walker, R., Shiota, R., Perz, S. and Skole, D. 2003. Ciclo de Vida da Família e Desmatamento na Amazônia: Combinando Informações de Sensoriamento Remoto com Dados Primários, *Revista Brasileira de Economia* 57(4): 683-711.
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- Perz, S. and Walker, R. 2002. Household Life Cycles and Secondary Forest Cover among Smallholders in the Amazon. *World Development* 30(6): 1009-1027.
- Walker, R., Perz, S. Caldas, M. and Texeira da Silva, L.G. 2002. Land Use and Land Cover Change in Forest Frontiers: The Role of Household Life Cycles. *International Regional Science Review* 25(2): 169-199.
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- Walker, R. 2001. Urban Sprawl and Natural Areas Encroachment: Linking Land Cover Change and Economic Development in the Florida Everglades. *Ecological Economics* 37(3): 357-369.
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- Walker, R. and Hannan, M. 1989. Dynamic Settlement Processes: The Case of U.S. Immigration. *The Professional Geographer* 41(2): 172-183.

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- Walker, R. 1987. Regional Development and Renewable Resource Exploitation. *Ecological Modelling* 37: 303-316.
- Walker, R. 1987. Land Use Transition and Deforestation in Developing Countries. *Geographical Analysis* 19(1): 18-30.
- Walker, R. 1985. A Comment on Linear Control Problems in the Theory of Renewable Resource Exploitation. *Ecological Modelling* 30: 309-315.
- Szrymer, J. and Walker, R. 1983. Interregional Total Flow: A Concept and Application to an Input-Output Model of the U.S. *Review of Regional Studies* 13: 12-21.
- Walker, R. and Bayley, S.E. 1980. An Energetic and Economic Simulation for the Evaluation of Transportation Policy. *Computers, Environment, and Urban Systems* 5(½): 83-96.
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### **Journalistic Publications**

- Walker, R. T. 2023. O realismo mágico do desenvolvimento sustentável, *Interesse Nacional*. October 25, 2023.
- Walker, R. T. 2023. O Mississippi do Brasil, *Interesse Nacional*. September 6, 2023.
- Walker, R. T. 2023. Um passo para frente, dois passos para trás, *Interesse Nacional*. July 31, 2023.
- Walker, R. T. 2023. A ascensão da Amazônia vermelha? *Interesse Nacional*. June 26, 2023.
- Walker, R. T. 2023. Doutor Fantástico e os custos de proteger a Amazônia, *Interesse Nacional*. May 31, 2023.
- Walker, R. T. 2023. Promessas, Promessas, Promessas, *Interesse Nacional*. May 8, 2023.
- Walker R. T. 2023. A Amazônia não está segura sob o novo presidente do Brasil – plano de construir estradas pode levá-la além de seu ponto de ruptura, *Interesse Nacional*. March 27, 2023 (Translated from the English: The Amazon is not safe under Brazil’s new president – a roads plan could push it past its breaking point. *The Conversation* March 22.)
- Walker R.T. 2023. The Amazon is not safe under Brazil’s new president – a roads plan could push it past its breaking point. *The Conversation* March 22.
- Weeks, Jennifer. 2022. Ending Amazon deforestation: 4 essential reads about the future of the world’s

largest rainforest. *The Conversation*. November 16.

Carrero, G. C., Simmons, C., Walker, R.T. 2022. The Great Amazon Land Grab – how Brazil’s Government is clearing the way for deforestation. *The Conversation*. February 2.

Walker, R.T., Carrara, A.A., Simmons, C.S. and Irigaray, M., 2020. Indigenous people may be the Amazon’s last hope. *The Conversation*. Retrieved from <https://theconversation.com/indigenous-people-may-be-the-amazons-last-hope-130941>.

Walker, R.T. 2019. In Brazil’s rainforests, the worst fires are likely still to come. *The Conversation*. September 9, 2019.

Walker, R.T. 2019. Amazon deforestation, already rising, may spike under Bolsonaro. *The Conversation*. January 18, 2019.

### **Published Creative Works and Essays**

Walker, R. 2017. Rivers, Roads, and Gunmen. Personal Essay. *Ytori* 2 (spring).

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IPCC Expert Meeting on Climate Change, Land Use and Food Security: Final Meeting Report; January 23-25, 2017 FAO HQ Rome. FAO and IPCC, 2017.

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## Reviews

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- Walker, R. 1996. Review of *Who pays the price? The Sociocultural Context of Environmental Crisis* by B.R. Johnston (ed.). *The Professional Geographer* 48 (1): pp.117-118.
- Walker, R. 1995. Review of *"I am destroying the land!" The Political Ecology of Poverty and Environmental Destruction in Honduras*, by S. Stonich. *Society and Natural Resources* 8 (3): pp. 274-276.
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## Other Publications

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- Walker, R., Bruna, E., Buschbacher, R., Kainer, K., Loiselle, B., Perz, S., Schmink, M. and Simmons, C. 2016. *Refugia for the Amazonian Anthropocene*. White Paper (Non-refereed)
- Elbehri, A., Challinor, A., Verchot, L., Angelsen, A., Hess, T., Ouled Belgacem, A., Clark, H., Badraoui, M., Cowie, A., De Silva, S., Erickson, J. Joar Hegland, S., Iglesias, A., Inouye, D., Jarvis, A., Mansur, E., Mirzabaev, A., Montanarella, L., Murdiyarso, D., Notenbaert, A., Obersteiner, M., Paustian, K., Pennock, D., Reisinger, A., Soto, D., Soussana, J-F., Thomas, R., Vargas, R., Van Wijk, M. & Walker, R. *FAO-IPCC Expert Meeting on Climate Change, Land Use and Food Security: Final Meeting Report*. January 23-25, 2017 FAO HQ Rome. FAO and IPCC, 2017. Expert Report (refereed)
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## GRANTS AND RESEARCH CONTRACTS

### Research Awards

“Dynamics of Integrated Socioenvironmental Systems: Resilient Socio-Environmental Systems: Indigenous Territories in the Face of Change.” (Project Leader and Principal Investigator.) \$998,682. Sponsored by the National Science Foundation, 2021-2025

“International Trade Agreements, Globalization, Land Change, and Agricultural Food Networks.” (Project Leader and UF Principal Investigator). \$375,000. Sponsored by the National Science Foundation, 2016-2019.

“Collaborative Research: Contentious Land Change in the Eastern Amazon.” (UF Co-Principal Investigator). \$157,529. Sponsored by the National Science Foundation, 2012-2015.

“Collaborative Research: Territorializing Exploitation Space and the Fragmentation of the Amazon Forest.” (MSU Principal Investigator). \$344,258. Sponsored by the National Science Foundation, 2008-2011.

“Collaborative Research: Globalization, Deforestation, and the Livestock Sector in the Brazilian Amazon.” Robert Walker (MSU Principal Investigator and Project Leader). \$314,976. Sponsored by the National Science Foundation, 2006-2009.

“Spatially Explicit Land Cover Econometrics and Integration with Climate Prediction: Scenarios of Future Landscapes and Land-Climate Interactions.” Robert Walker (US Principal Investigator). \$278,702. Sponsored by the National Aeronautics and Space Administration-LBA program, 2006-2007.

“Collaborative Research: Brazil’s Direct Action Land Reform Movement: Environmental Impacts and Socio-spatial Dynamics.” Robert Walker (MSU Co-Principal Investigator). \$250,000. Sponsored by the National Science Foundation, 2005- 2008.

“Collaborative Research: Socio-Spatial Processes of Road Extension and Forest Fragmentation in the Amazon.” Robert Walker (MSU Principal Investigator and Project Leader). \$158,246. Sponsored by the National Science Foundation. 2003-2005.

“A Basin-scale Econometric Model for Projecting Future Amazonian Landscapes.” Robert Walker (US Principal Investigator). \$550,592. Sponsored by the National Aeronautics and Space Administration-LBA program, 2003-2006.

“Land cover dynamics in the Amazon: Social science debates and the struggle for synthesis.” Robert Walker (Organizer). \$9,220. Symposium at Second Science Meeting. Sponsored by NASA. Manaus, Brazil. July 11-12, 2002.

“Collaborative Research: Patterns and Processes of Landscape Change in the Brazilian Amazon.” Robert Walker (MSU Principal Investigator). \$78,420. Sponsored by the National Science Foundation, 2002-2004.

“Expedition on the Iriri River.” Robert Walker (MSU Principal Investigator and Project Leader). \$5,000. Sponsored by the National Geographic Society, 2002.

“Deforestation in the Amazon: Social Science Debates and the Struggle for Synthesis.” (MSU Principal Investigator and Project Leader). \$42,270. Sponsored by the National Science Foundation. 2001-2002.

“Building a Sustainable Future for the Muskegon River Watershed.” (MSU Principal Investigator) \$904,960. Sponsored by the Wege Foundation. 2001-2004.

“Pattern to Process: Research and Applications for Understanding Multiple Interactions and Feedback on Land Cover Change.” (MSU Principal Investigator and Project Leader). \$641,000. Sponsored by the National Aeronautic and Space Administration-IDS program. 2000-2003.

“GOFC Data and Information for Tropical Forest Assessment and Management.” (MSU Co-Principal Investigator). \$374,035. National Aeronautics and Space Administration-LUCC program. 2000-2003.

“Modeling of the Inter-Annual Dynamics of Deforestation and Regrowth in the Brazilian Amazon.” (MSU Co-Principal Investigator). \$831,774. National Aeronautics and Space Administration-LBA program. 1998-2001.

“Tenure Security and Resource Use in the Amazon Field Support Grant.” (FSU Principal Investigator and Project Leader). \$4,000. National Geographic Society. 1996.

“Land Tenure Security, Reforestation, and Agroforestry.” (Principal Investigator). \$5,000. Committee on Faculty Research Support, Florida State University. 1996.

“The Interaction Between Population Growth and Land Use Change: Case Study of the South Florida/Everglades Region.” (FSU Principal Investigator and Project Leader). \$50,940. Sponsored by the National Academy of Sciences/National Research Council. 1995-1997.

“Tenure Security and Resource Use in the Amazon.” (FSU Collaborator). \$150,000. Sponsored by the National Science Foundation. 1996-1997.

“Small Producer Forestry: A Comparative Study of Panama and Brazil.” (FSU Principal Investigator and Project Leader). \$24,989. Sponsored by U.S. Forest Service. 1995-1997.

Consultant. Instituto Interamericano de Cooperação para a Agricultura (IICA) and World Bank. November 12-29, 1994. Belém, Brazil.

“Tropical Forest Management and Small Producers.” (FSU Principal Investigator and Project Leader). \$27,000. Sponsored by U.S. Forest Service. 1993-1994.

“Forest Product Value and Energy.” (FSU Co-Principal Investigator). \$27,867. Sponsored by the U.S. Forest Service. 1992-1993.

“Ecological Sustainability and Human Institutions: Phase II.” (FSU Co-Principal Investigator). \$360,220. Sponsored by Man and the Biosphere Program, U.S. State Department. 1993-1996.

“Ecological Sustainability and Human Institutions: Case Studies of Three Biosphere Reserves.” (FSU Co-Principal Investigator). \$398,934. Sponsored by Man and the Biosphere Program, U.S. State Department. 1991-1993.

An Analysis of New Manufacturing Plants in Appalachia: What Makes Them Successful and Why Do They Locate Here?” (WVU Principal Investigator and Project Leader). \$71,634. Sponsored by the Appalachian Regional Commission. 1987-1989.

“Cost of Doing Business Study-Phase II and III.” (WVU Principal Investigator and Project Leader). \$23,840. Sponsored by the Interim Commission on Employment Opportunities and Economic Development, State of West Virginia, and the Center for Economic Research, West Virginia University. 1987.

### **Student Awards**

“Doctoral Dissertation Research: Impacts of Mechanized Agriculture on Smallholders and Landscapes in the Central Amazon Basin.” Robert Walker (UF Principal Investigator) with Williams Castro. \$16,623. Sponsored by the National Science Foundation, 2014-2016.

“Food, Fuel, and the Amazonian Forest: Gauging Indirect Land Use Change from the Farm Level.” Pete Richards. \$20,600. The Mellon Foundation and the Institute for International Education Graduate Fellowship for International Study, awarded to selected designees for the cancelled 2011-2012 Fulbright DDRA program.

“Food, Fuel, and the Amazonian Forest: Gauging Indirect Land Use Change from the Farm Level.” Pete Richards. \$30,000. Twelfth Annual Benjamin H. Stevens Graduate Fellowship in Regional Science. The North American Regional Science Association. 2011-2012.

“Soy, Cattle, and the Hidden Margins of Capital.” Pete Richards. \$21,300. Grassroots Development Fellowship. Inter-American Foundation 2011-2012.

“Mechanized Agriculture and Amazonian Deforestation.” Pete Richards. \$5,000. The Social Science Research Council. 2008.

“Doctoral Dissertation Research: Soy, Cattle, and the Amazon Forest.” Robert Walker (MSU Principal Investigator) with Peter Richards. \$4,800. Sponsored by the National Science Foundation, 2010-2012.

“Doctoral Dissertation Research: Settlement Formation and Land Use and Land Cover Change: a case study in the Brazilian Amazon.” Robert Walker (MSU Principal Investigator) with Marcellus Caldas. \$11,900. Sponsored by the National Science Foundation. 2006- 2007.

“Doctoral Dissertation Research: Land Reform, Social Conflict, and Deforestation in the Brazilian Amazon.” Robert Walker (MSU Principal Investigator) with Stephen Aldrich. \$11,900. Sponsored by the National Science Foundation, 2006- 2007.

## CONFERENCE AND SEMINAR PRESENTATIONS

### International

Robert Walker. 2018. Eulogy for John Browder. Reflections on John Browder and his contributions to the geographic understanding of Amazonia. San Jose, Costa Rica. May 22, 2018.

Gabriel Carrera and Robert Walker. 2018. Deforestation among Small Farmers in the Brazilian Amazon of the 21st Century: Evidence Suggests that Spatial Patterns Change with Frontier Time Span. San Jose, Costa Rica. May 22, 2018.

Cynthia Simmons and Robert Walker. 2018. Endangered Amazon: An Indigenous Tribe Fights Back Against Hydropower Development in the Tapajós Valley. San Jose, Costa Rica. May 22, 2018.

“The Sustainability Bridge,” presented at the FAO-IPCC Experts Meeting, Rome, Italy, January 23-25, 2017

“Valuing natural resources: a reconsideration,” paper presentation at the 5<sup>th</sup> International Ecosummit, Montpellier, France. August 29-September 1.

“Desmatamento Indireto: o Caso de Soja e Pecuaria na Amazônia.” [Indirect Deforestation: the Case of Soy and Ranching in Amazonia], by Robert Walker, Pete Richards and Eugenio Arima. Talk presented at the Federal University of Pará, NUMA. Belém, Brazil, March 13, 2012.

“Desmatamento Indireto na Fronteira Amazonica.” [Indirect Deforestation on the Amazon Frontier], by Robert Walker, Pete Richards and Eugenio Arima. Talk presented at the University of the Amazon (UNAMA). Belém, Brazil, March 27, 2012.

“Modelagem de Desmatamento Indireto.” [Modelling Indirect Deforestation], by Robert Walker, Pete Richards and Eugenio Arima. Talk presented at the Federal University of Pará, ICSA. Belém, Brazil, April 13, 2012.

“Fragmentação Florestal como processo de Desenvolvimento: Impactos da Rodovia Transamazônica na Amazônia Oriental.” [Forest Fragmentation as a Development Process: Impacts of the Transamazon Highway on the Eastern Amazon]. Talk presented at the Federal University of Rio de Janeiro. Department of Geography and Graduate Student Seminar. Rio de Janeiro, Brazil, June 22, 2011.

“Ciência das Mudanças da Terra no Brasil: Desafios empíricos e questões teóricas.” [Land Change Science in Brazil: Empirical challenges and theoretical issues]. Presented at the 15<sup>th</sup> Brazilian Remote Sensing Symposium. Keynote Speaker at Sessão Especial, Mudanças de Uso da Terra: Visões Multidisciplinares, Problemas do Mundo Real (Special Session, Land Use Change: Multidisciplinary Visions, Real World Problems), Curitiba, Brazil, May 2, 2011.

“A Fronteira Verde.” [The Green Frontier]. Seminar presented at the Federal University of Pará, Belém, Brazil, March 10, 2010.

“Forest Transition: Fact or Fiction.” Paper presented at the IHDP Open Meetings, Bonn, Germany, April 26-30, 2009.

“Land Reform Settlement in the Brazilian Amazon: new drivers of LCLUC” by Caldas, M., Simmons, C., Walker, R., Perz, S., Aldrich, S. and Arima, E. *Conferencia Científica Internacional LBA, GEOMA & PPBio*. Manaus, Brazil, Nov 19, 2008.

“The Fragmentation of Space in the Brazilian Amazon: Emergent Road Networks” by Arima, E., Walker, R., Sales, M., Souza Jr., C. and Perz, S. *Conferencia Científica Internacional LBA, GEOMA & PPBio*. Manaus, Brasil, Nov 20, 2008.

“Can Protected Areas Protect the Amazon?” (Poster) by Walker, R., Moore, N., Arima, E., Simmons, C., Perz, S., Caldas, M., Vergara, D. and Bohrer, C. *Conferencia Científica Internacional LBA, GEOMA & PPBio*. Manaus, Brazil, Nov 17-20, 2008.

“Agent-Based Models of Deforestation in the Amazon.” (Poster) by Vergara, D. and Walker, R. *Conferencia Científica Internacional LBA, GEOMA & PPBio*. Manaus, Brazil, Nov 17-20, 2008.

“Road Investments, Their Contexts and Deforestation Impacts,” by Pfaff, A., Robalino, J. and Walker, R. *Conferencia Científica Internacional LBA, GEOMA & PPBio*. Manaus, Brazil, Nov 17, 2008.

“Revisiting the Avissar Hypothesis: Climate Modeling of Extreme Deforestation in Amazônia,” by Moore N., Walker, R., Arima, E. and Ramos da Silva, R. *Conferencia Científica Internacional LBA, GEOMA & PPBio*. Manaus, Brazil, Nov 20, 2008.

“Modelling Land-Climate Interactions in Amazônia under Uncertainty,” by Nathan Moore, Robert Walker, Eugenio Arima, Alex Pfaff, A. and Juan Robalino. NASA LBA meetings. Salvador, Brazil, September 26-28, 2007.

“Settlement Formation and Land Cover and Land Use Change: A Case Study in the Brazilian Amazon. Caldas, C., Walker, R., Simmons, C., Aldrich, S. and Matricardi, E. NASA LBA meetings. Salvador, Brazil, September 26-27, 2007.

“Desmatamento e Agricultura Familiar na Amazônia.” [Deforestation and Family Agriculture in the Amazon]. Seminar at the Federal University of Pará (UFPA), Belém, Brazil, March 8, 2007.

“Projecting Future Amazonian Landscape: An Econometric Approach,” by Robert Walker, Alex Pfaff, Stephen Perz, Eustaquio Reis, Marcellus Caldas, Eugenio Arima, Claudio Bohrer, Juan Robalino, and Stephen Aldrich. NASA LBA meetings. Brasilia, Brazil, Oct 4-6, 2006.

“An Econometric Approach to Amazon Landscapes and Assessing their Hydroclimatological Impacts,” by Nathan Moore, Eugenio Arima, Robert Walker, Alex Pfaff, Eustáquio Reis, Marcellus Caldas, Claudio Bohrer, and Juan Robalino. NASA LBA meetings. Brasilia, Brazil, Oct 4-6, 2006.

“Econometric Estimation of Deforestation Impacts from Roads and Other Drivers,” Alex Pfaff, Eustaquio Reis, Juan Robalino, Robert Walker. NASA LBA meetings. Brasilia, Brazil, Oct 4-6, 2006.

“Socioeconomic Development and Forest Fragmentation in the State of Mato Grosso, in the 1986-2000 Period,” (Poster) by Marcia Mello, Simone Freitas, Claudio Bohrer, Alex Pfaff, Eustaquio Reis, and Robert Walker. NASA LBA meetings. Brasilia, Brazil, Oct 4-6, 2006.

“Teorias de desmatamento na Amazônia.” [Theories about Amazonian Deforestation]. Invited seminar presentation in the Department of Geography, University of São Paulo, February 17, 2006.

“Roads and Deforestation in the Amazon Basin.” NASA LBA meetings. São Paulo, Brazil, Nov 7-9, 2005.

“Scenarios for econometric projections: The future of the Amazon.” (Poster). NASA LBA meetings. São Paulo, Brazil, Nov 7-9, 2005.

“Amazônia, o passado e hoje em dia: Manejando mudanças no ambiente global.” [The Amazon, Yesterday and Today: Managing Global Environmental Change]. Invited seminar presentation at Escola Superior de Agricultura “Luiz de Queiroz” (College of Agriculture), University of São Paulo, Brazil. July 8, 2005.

“Social Science Data for Northern Eurasia Earth Science Research: Availability and Limitations.” Presentation at workshop, “Observations of land cover and needs of research projects in the Boreal zone of northern Eurasia.” Sponsored by NASA, St. Petersburg, Russia, June 18-19, 2005.

“Socio-spatial Processes of Road-building and Cover Change: The Case of SINOP, Mato Grosso” (Poster) by S. Perz, M. M. Caldas, R. Walker, and C. Souza Jr., IMAZON. Seventh LBA-ECO Science Team Meeting. Sponsored by NASA. Brasília, Brazil. July 27-29, 2004.

“Socio-spatial processes of forest fragmentation in the Brazilian Amazon: the case of Uruará colonization site” by Marcellus Caldas, Michigan State University, Walker, R.T., Michigan State University, Perz, S., University of Florida, Arima, E. Michigan State University, Reis, E., IPEA, Pfaff, A., Columbia University. Poster presentation for the seventh LBA-ECO Science Team Meeting. Sponsored by NASA. Brasília, Brazil. July 27-29, 2004.

“Roads: Cause or Consequence of Deforestation in the Amazon Basin?” presented by Marcellus Caldas for Robert Walker. Presentation at Brasília, Brazil. July 27-29, 2004.

“Roads: Cause or Consequence of Land Use Change?” (Poster) by E. Arima, R. Walker, E. Reis, S. Perz, M. Caldas, C. Souza Jr., A. Pfaff, C. Bohrer, J. Qi. Seventh LBA-ECO Science Team Meeting. Sponsored by NASA. Fortaleza, Brazil. November 5-8, 2003.

“The Spatial Evolution of Road Systems.” (Poster) by E. Arima, R. Walker, E. Reis, S. Perz, M. Caldas, C. Souza Jr., A. Pfaff, C. Bohrer, J. Qi, Poster presentation for the seventh LBA-ECO Science Team Meeting. Sponsored by NASA. Fortaleza, Brazil. November 5-8, 2003.

“A Progress Report on the Basin-Scale Econometric Model.” (Poster) by R. Walker, E. Arima, E. Reis, S. Perz, M. Caldas, C. Souza Jr., A. Pfaff, C. Bohrer, J. Qi. Seventh LBA-ECO Science Team Meeting. Sponsored by NASA. Fortaleza, Brazil. November 5-8, 2003.

“Conservation and Development: Some Historical Considerations.” Presentation for workshop, Managing Forest Resources in the Amazon: the “Terra do Meio.” Special sessions convened at the XLI Congresso da SOBER. Sponsored by CNPq and the US National Science Foundation. Juiz de Fora, Brazil. July 27-30, 2003

Organizer for workshop, Managing Forest Resources in the Amazon” Sessions convened at the XLI Congresso da SOBER. US National Science Foundation. Juiz de Fora, Brazil. July 27-30, 2003.

Session Chair for workshop, Managing Forest Resources in the Amazon: the “Terra do Meio.” XLI Congresso da SOBER. National Science Foundation. Juiz de Fora, Brazil. July 27-30, 2003.

“What Drives Tropical Deforestation in the Amazon Basin.” Invited workshop presentation in symposium, Land Cover Dynamics in the Amazon: Social Science Debates and the Struggle for Synthesis. Second Science Meeting of the NASA-LBA Program. Manaus, Brazil. July 11, 2002.

Co-convenor, with Berta Becker, of Human Dimensions Session, Second Science Meeting of the NASA-LBA Program. Manaus, Brazil. July 7, 2002.

“Can We Explain Tropical Deforestation.” Presentation, Human Dimensions Session, 2<sup>nd</sup> Science Meeting of the NASA-LBA Program. Manaus, Brazil. July 7, 2002.

“Land Titles, Tenure Security and Resource Use among Small Farmers in the Brazilian Amazon.” Panel presentation. Co-author with Wood, C. XXIVth General Population Conference of the International Union for the Scientific Study of Population (IUSSP), Salvador de Bahia, Brazil, August 18-24, 2001,

“Desmatamento na Amazônia: uma análise econométrica de autocorrelação espacial combinando informações de sensoriamento remoto com dados primários.” [Amazonina Deforestation: An Econometric Analysis of Spatial Autocorrelation Combining Remote sensing and Primary Data]. Co-author with Caldas, M., Skole, D., Chomentowskii, W. and Shiota, R. Open Science Conference "The Challenges of a Changing Earth". Amsterdam, The Netherlands, July, 2001.

“Household Life Cycles and Secondary Forest Growth among Smallholders in the Amazon,” co-author for presentation, International Rural Sociology Association (IRSA) meetings, Rio de Janeiro, Brazil, August 2, 2000.

“Modeling Land Cover Changes associated with Colonist Agriculture: A Probability-Based Approach,” Panel presentation, SOBER, Rio de Janeiro, Brazil, August 1, 2000 (*in Portuguese*).

“Probability Modeling of Landscape Change,” poster presentation at the First NASA LBA Scientific meeting, Belém Brazil, June 25-30, 2000.

“Deforestation and Land Cover Change at Household Level: Evidence from the Brazilian Amazon,” poster presentation at the First NASA LBA Scientific meeting, Belém, Brazil, June 25-30, 2000.

“Modelagem do Processo de Desmatamento no Nível de Domicílio: Evidências da Amazônia.” [Modeling the Process of Deforestation at Household Level: Evidence from the Amazon]. Invited seminar at Universidade Estadual do Norte Fluminense, Campos dos Goytacazes, Rio de Janeiro State, Brazil, May 16, 2000 (*in Portuguese*).

“Deforestation and Cattle Ranching in the Brazilian Amazon: External Capital and Household Processes,” Invited Seminar at Universidade de São Paulo, Piracicaba, Brazil, May 11, 2000 (*in Portuguese*).

“Life Cycle Effects on Land Cover Change in Forest Frontiers.” Paper presented at the 46<sup>th</sup> North American Meetings of the Regional Science Association, Montreal, Quebec, November 11-14, 1999.

“Conserving the Tropical Resource Base: Do We Title Land or Organize Community?” Workshop participant, “Biodiversity -- Treasures in the World’s Forests,” Schneverdingen, Germany, July 2-7, 1998.

“Theorizing the Social Context of Ecological Transformation: Lessons from South Florida,” Plenary presentation at “The Earth’s Changing Land GCTE-LUCC Open Science Conference on Global Change,” Barcelona, Spain, March 15, 1998.

“Dinâmica da Floresta e Teoria da Produção Doméstica: A Regra do Pequeno Produtor.” [Forest Dynamics and the Theory of Household Production: The Rule of the Small Producer]. Invited seminar at the Federal University of Piauí, Teresina, Brazil, November 13, 1997.

“A Globalização e o Século XXI: Além da Economia.” [Globalization and the 21st Century: Beyond Economy]. Invited presentation for I Encontro Brasileiro de Fulbrighters at Centro Cultural Alumni, São Paulo, Brazil, November 3, 1997.

“Pequenos produtores, Fazendeiros, e o Desmatamento.” [Small Producers, Ranchers, and Deforestation]. Invited seminar for IMAZON, Belém, Brazil, October 9, 1997.

“Aversão ao Risco e o impacto no Meio-ambiente.” [Risk Aversion and Environmental Impact]. Lecture series at EMBRAPA/CPATU, Belém, Brazil, October 8, 1997 (*in Portuguese*).

“Produção Doméstica e sua Importância à Teoria do Meio-ambiente.” [Household Production and its Importance to the Theory of the Environment]. Lecture series at EMBRAPA/CPATU, Belém, Brazil, October 1, 1997 (*in Portuguese*).

“Land Cover Change, Sustainability, and the Biosphere Reserve Concept.” Invited presentation for the International Conference on Biosphere Reserves, Seville, Spain. Supported by UNESCO and U.S. State Department, March 20-25, 1995.

“Spatial realms of value and tropical forest management.” Guest speaker at the 7th Caribbean Foresters' Meeting, Kingston, Jamaica, June 13-17, 1994.

“Dinâmica do uso da terra na Amazônia e implicações para o desenvolvimento rural: Introdução.” [Amazonian Land Use Dynamics and Implications for Rural Development]. Invited seminar at EMBRAPA/CPATU, Belém, Brazil, December 2, 1992.

## **National**

“The Spatiality of Development on the Transamazon Highway.” Paper presented at the 106<sup>th</sup> Annual Meetings of the Association of American Geographers. Seattle, April 13, 2011.

Panel participant at the 106<sup>th</sup> Annual Meetings of the Association of American Geographers. Seattle, April 13, 2011.

“Biofuels and the Green Energy of Amazonia.” The Distinguished Lecture Series. Kansas State University. Manhattan, KS. November 12, 2010.

“Land Conflict and Land Change in Amazônia.” Paper presentation at the 105<sup>th</sup> Annual Meetings of the Association of American Geographers. Washington, DC, April 14-19, 2010.

“The Green Energy of Amazonia.” Invited seminar at MIT’s Joint Program on the Science and Policy of



Global Change. February 26, 2010.

“State of the Science – Land Use Modeling in Amazônia.” Invited presentation at Spring NASA LCLUC Science Team Meeting. Bethesda, Maryland. March 31, 2009.

“Globalization, Deforestation, and the Cattle Sector of the Brazilian Amazon.” Paper presented in Pastoralism, Ranching and Capitalism—or, What's New About Neoliberalism? II: The Neoliberal Present: Cases from Four Continents. Session at the 102<sup>th</sup> Annual Meetings of the Association of American Geographers. San Francisco. April 17-21, 2007

Panel participant in Pastoralism, Ranching and Capitalism—or, What's New About Neoliberalism? III: The Neoliberal Present: Cases from Four Continents. Session at the 102<sup>th</sup> Annual Meetings of the Association of American Geographers. San Francisco. April 17-21, 2007.

Session Chair for Creative Destruction I: The Social and Environmental Impacts of Large-Scale Infrastructure Projects in the Brazilian Amazon. Session at the 102<sup>th</sup> Annual Meetings of the Association of American Geographers. San Francisco. April 17-21, 2007.

Panelist participant in Creative Destruction II: The Social and Environmental Impacts of Large-Scale Infrastructure Projects in the Brazilian Amazon. Session at the 102<sup>th</sup> Annual Meetings of the Association of American Geographers. San Francisco. April 17-21, 2007

“Roads and Economic Development in the Amazon,” presentation at debate, Road Development in the Amazon Debate Forum. Yale University, New Haven. February 17, 2007.

“Modeling the Land-Climate System in Amazonia.” (Poster) NASA Land Cover and Land Use Change Meeting. College Park, Maryland. April 11-13. 2006.

“Roads and Deforestation in the Amazon Basin.” Presentation at the 101<sup>th</sup> Annual Meetings of the Association of American Geographers. Chicago. March 7-11, 2006.

“Roads: Cause or Consequence of Tropical Deforestation.” Presentation at the 100<sup>th</sup> Annual Meetings of the Association of American Geographers. Special Session, Amazon and Environment 1. Denver, April 5-9, 2005.

Panel participant in Thirty Years of Development and Destruction. Annual Meetings of the Association of American Geographers. Denver, April 5-9, 2005.

“Roads: Cause or Consequence of Tropical Deforestation.” Seminar presentation at the Department of Geography, University of Texas at Austin. Austin, April 1, 2005.

“A Basin-Scale Econometric Model for Projecting Future Amazonian Landscapes.” Presentation at NASA LCLUC meetings, Maryland, Jan 11-13, 2005.

“Patterns and Processes of Land Cover Change in the Amazon Basin: Ten Years of Household Level Research in Brazil and Ecuador.” Panel participant at the 99<sup>th</sup> Annual Meetings of the Association of American Geographers, New Orleans, March 8, 2003.

“Land Use in the Amazon.” Session chair at the 99<sup>th</sup> Annual Meetings of the Association of American Geographers, New Orleans, March 7, 2003.

“Spatial Processes of Logging Road Extensions in the Brazilian Amazon.” Co-presenter with E. Arima, Marcellus Caldas, and Stephen Perz at the 99<sup>th</sup> Annual Meetings of the Association of American Geographers, New Orleans, March 6, 2003.

“A Basin-Scale Econometric Model for Projecting Future Amazonian Landscapes.” (Poster) NASA-LBA science meeting, San Francisco, CA., December 11-13, 2002.

“A Behavioral Model of Landscape Change in the Amazon Basin: The Colonist Case.” (Poster) NASA Land Cover and Land Use Change Program Meeting, November 20-22, College Park, MD., 2002.

"Mapping Process to Pattern in the Landscape Change of Forest Frontiers." Invited presentation. Colloquium Series, Center for the Study of Institutions, Population, and Environmental Change. Indiana University. April 16, 2001.

“Anthropogenic Fires in Amazonia: The Role of Community and Farming System Choice. Co-author with Cynthia Simmons. Talk presented by Simmons at the 97<sup>th</sup> Annual Meetings of the Association of American Geographers, New York City, March 2, 2001.

Special Session organizer, with J. Qi on the Pattern to Process Project. The 97<sup>th</sup> Annual Meetings of the Association of American Geographers, New York City, February 28, 2001.

“Land Use and Land Cover Change: A Forest Dynamics Model for Low Intensity Agriculture and Forest Fragmentation,” Paper presented at special Session at the 97<sup>th</sup> Annual Meetings of the Association of American Geographers, New York City, February 28, 2001.

“Spatial Evolution of Farm Properties: A Histogram Analysis,” Co-author with Marcellus Caldas. Paper presented by Caldas at the 97<sup>th</sup> Annual Meetings of the Association of American Geographers, New York City, February 28, 2001.

“A Forest Dynamics Model for Low Intensity Agriculture in Tropical Frontiers,” Presentation. NASA-LBA Open Science Meeting, Atlanta Georgia, February 13, 2001.

Introduction to “Pattern to Process: Research and Applications for Understanding Multiple Interactions and Feedback on Land Cover Change,” NASA-IWG Meeting, Ft Lauderdale, FL, January 31, 2001.

“Mapping Pattern to Process to Pattern: Household Landscapes in the East and West Amazon.” Presentation in Pattern to Process in Land Cover Change, Special Session at the 96<sup>th</sup> Annual Meetings of the Association of American Geographers, Pittsburgh, April 4-8, 2000.

Participant in Roundtable, “Does Place Matter: Explaining Tropical Deforestation and Land Use.” 96<sup>th</sup> Annual Meetings of the Association of American Geographers, Pittsburgh, April 4-8, 2000.

“Household Level Processes of Land Cover Change.” Presentation. Science Team Meeting of the Land Use and Land Cover Change Program, NASA, Reston, Virginia, April 3, 2000.

“The Decision-Making Process in Land-Cover Evolution.” Presentation. 48<sup>th</sup> Annual Conference, Center for Latin American Studies, University of Florida, Gainesville, March 23-26, 1999.

“Forest Conservation and Land Titling.” Invited seminar, Resources for the Future, Washington, D.C.,

January 28, 1999.

“Conserving the Tropical Resource Base: Do We Title Land or Organize Community?” Invited seminar, World Bank, Washington D.C. August 12, 1998.

“The Structure of Uncultivated Wilderness: Land Use Beyond the Extensive Margin of Agriculture.” Presentation. Resources for the Future “Pizza Workshop,” Washington D.C., June 9, 1998.

“Development and Land Cover Change: The Case of South Florida.” Presentation. Resources for the Future seminar series, Washington, D.C., April 22, 1998.

“The Relationship among Population Growth, Consumption, and Land Use Change in China, India, and the United States.” Workshop participant. National Research Council, Washington D.C., March 3-4, 1997.

“External Sector Driving Forces of Deforestation and Regrowth.” Workshop participant, NASA, Marathon, Florida, February 21-22, 1997.

“Landscape Changes in Regional Economic Evolution: Case Study of Southern Florida.” Invited presentation. Workshop on Population and Environment, National Institute of Health, Bethesda, Maryland, October 29, 1996.

“Ecosystem Change and the Regional Economy: The Case of Human Encroachment into South Florida.” Invited seminar, Regional Research Seminar. West Virginia University, October 25, 1996.

“Modelling Rotational Agriculture.” Invited presentation. The Social Meaning of Secondary Growth, Tropical Conservation and Development Program and The Department of Political Science, University of Florida, Gainesville, September 20, 1996.

“Farming Systems Evolution in the Brazilian Amazon.” Presentation. Organized session of the Annual Meeting of the Association of American Geographers. Charlotte, NC, April 12, 1996.

“Land Use Dynamics and Ecological Transition: The Case of South Florida.” Invited Presentation. Ecological Society of America, Snowbird, Utah. August 1, 1995.

“Farm-Level Decision-Making and its Impact on Land Use in the Brazilian Amazon.” Invited lecture. The Tropical Conservation and Development Program and Department of Geography, University of Florida, October 31, 1994.

U.S. Man and the Biosphere charette on sustainability in South Florida. Invitee. Isle au Haut, Maine, June 5-16, 1994.

“Processes of land use change in developing countries.” Presentation. 40th North American meeting of the Regional Science Association, Houston, Texas, November 11-14, 1993.

“Processes of land use change in developing countries.” Presentation. 40th North American meeting of the Regional Science Association, Houston, Texas, November 11-14, 1993.

“Forestry, Peasant Agriculture, and Sustainability in the Tropics.” Presentation. Organized session of the 36th Annual Meeting of the International Society for the Systems Sciences, Denver, Colorado, July 12-

17, 1992.

“US MAB Human-Dominated Systems Directorate Workshop on Ecological Sustainability.” Invited Participant and leader for GIS and Data needs specialty group. University of Miami, Miami, Florida, May 18-22, 1992.

“Forestry Issues in Tropical Economics.” Invited seminar. Southern Experiment Station, U.S. Forest Service, New Orleans, April 6, 1992.

“Population and Environmental Degradation.” Presentation. Southern Demographic Association, Jacksonville, Florida, October 10-12, 1991.

“Human Institutions and Ecological Regimes.” Panel participant. Second annual meetings of the International Association for the Study of Common Property, Winnipeg, Canada, September 26-9, 1991.

“The Effect of Government Incentives and Assistance on Job Growth in Manufacturing.” Invited Presentation. Department of Geography, University of Cincinnati, Cincinnati, OH, October 17, 1990.

“The Role of Population in Models of Environmental Degradation.” Invited Paper. The 21st annual meeting of the Southern Demographic Association, Louisville, KY, October 18-20, 1990.

“A Behavioral Model of Tropical Deforestation Under the System of Concession Logging.” Presentation. Conference on The Ecological Economics of Sustainability, The World Bank, Washington, D.C., May 21-23, 1990.

“Deforestation Processes in Indonesia.” Presentation. 86th annual meeting of the Association of American Geographers, Toronto, Ontario, April 19-22, 1990.

“The Dynamics of Immigration Processes and Possible Impacts on Internal Migration Systems.” Presentation at the 86th annual meeting of the Association of American Geographers, Toronto, Ontario, April 19-22, 1990.

“Contract Forfeiture and Tropical Deforestation.” Presentation at the 2nd Interdisciplinary Conference on Natural Resource Modelling and Analysis, Tallahassee, FL, October 12-14, 1989.

“The Decision to Locate a Manufacturing Plant in Appalachia.” Presentation. 85th Annual Meeting of the Association of American Geographers, Baltimore, MD, March 19-22, 1989.

“The Decision to Locate a New Manufacturing Plant in Appalachia.” Presentation. 35th North American Meeting of the Regional Science Association, Toronto, Ontario, November 11-13, 1988.

“The Regional and Local Search for New Manufacturing Plants.” Invited presentation at “The Industry Location and Public Policy Symposium,” Knoxville, TN, April 21-23, 1988.

Session Organizer for Session 62 on Industrial Location. 27th Meeting of the Southern Regional Science Association, Morgantown, WV, April 14-16, 1988.

“Modeling the Growth Processes of Manufacturing Establishments.” Presentation. 27th meeting of the Southern Regional Science Association, Morgantown, WV, April 14-16, 1988.

“Comparative Cost and the Decision to Search for Manufacturing Plant Locations.” Presentation. 34th North American Meeting of the Regional Science Association, Baltimore, MD, November 12-15, 1987.

“Geographic Hierarchy, Organization of the Firm, and the Decision to Search: New Plant Locations in Central Appalachia.” Presentation. 83rd Annual Meeting of the Association of American Geographers, Portland, OR, April 23-26, 1987.

“Industrial Development in Growing and Declining Regions.” Presentation. 33rd North American Meetings of the Regional Science Association, Columbus, OH, November 14-16, 1986.

“Diffusion of Irrigation Technology and Agricultural Tenancy.” Presentation. 82nd Annual meeting of the Association of American Geographers, Twin Cities, MN, May 1986.

"Skill Composition of the Immigrant Workforce and the Economy: A Simulation Approach." Presentation. 17th Annual Pittsburgh Conference on Modeling and Simulation, Pittsburgh, PA, April 1986.

"Potential State Responses to the Flood Disaster." Presentation. Senate Select Committee on Economic Development, Charleston, WV, January 6, 1986.

Discussant for "Estimating Demand for Water Under Multi-Block Price Structures," by Joseph Ziegler. At the 32nd North American Meetings of the Regional Science Association, Philadelphia, PA, November 15-17, 1985.

“Managing Land Use Transition: the Case of Forests.” Presentation. Annual Meeting of the Association of American Geographers, East Lakes Division, Indiana, PA, October 1985.

“Sustainable Resource Exploitation and Multinational Behavior.” Presentation. Symposium on Sustainable Development of Natural Resources in the Third World, Columbus, OH, September 4-7, 1985.

“A New Approach to the Identification of Most Rapid Approach Paths in the Renewable Resource Problem.” Presentation. 15th Annual Pittsburgh Conference on Modelling and Simulation, Pittsburgh, PA, April 1984.

## **Regional**

“Emergent Cattle Production Chains in the Brazilian Amazon.” Conservation and Development Forum. Gainesville, UF, March 26, 2016.

“Conducting Interdisciplinary Research: The Case of Florida’s Springs.” Presentation to Interdisciplinary Research Class, TCD. Gainesville, UF, March 15, 2016.

“Flipping South America.” Presentation to WIGF project group. Gainesville, UF, Feb 23, 2016.

Panelist. Conservation and Development Forum. Land Tenure Policy and Social Conflict: Drivers of Deforestation in the Amazon. October 10, 2015.

“Deforestation in the Amazon: Forest Loss, Fragmentation, and Fire Feedbacks.” Presentation in Amazonian Seminar. Gainesville, UF. October 5, 2015

“Saving Land for Nature in the Brazilian Amazon: Implications from Location Rent Theory.” Presentation in REDD Workshop Gainesville, UF, October 1, 2015.

“Flipping South America: The Rise of Amazonian Industry.” Department of Geography Colloquium. Gainesville, Florida. January 29, 2015.

“Infrastructural development and transformation of Amazonian landscapes. International Symposium - Engineered Landscapes: Society, Environment, and Shifting Values in Brazil and the U.S. The University of Florida. October 23, 2014.

Panelist. International Symposium - Engineered Landscapes: Society, Environment, and Shifting Values in Brazil and the U.S. Roundtable discussion. The University of Florida. October 23, 2014.

“A life of Research and Adventure.” Michigan State University Retiree’s Association. East Lansing, Michigan. November 13, 2012.

“Research as Adventure.” University Club of Michigan State University Colloquium Series. East Lansing, Michigan. October 19, 2010.

“Biofuels and the Green Energy of Amazonia.” CASID/GenCen Friday Forum. MSU, October 22, 2010.

“The Amazon.” Marble Elementary School, April 16, 2008

“Cattle in Amazonia.” Nature Society Theory Workshop, Department of Geography, MSU, November 16, 2007.

Muskegon River Watershed Partnership Conference participant, funded by the Wege Foundation, Muskegon, Michigan, August 21-25, 2000.

Natural Resources Coalition retreat, W.K. Biological Station. Retreat Participant, W.K. Kellogg Biological Station, Michigan, July 20-21, 2000.

“Deforestation and Cattle Ranching in the Brazilian Amazon: External Capital and Household Processes,” Presentation. “Brown Bag” seminar series of the Basic Science and Remote Sensing Initiative, Michigan State University, April 28, 2000.

“An Overview of Deforestation Processes in the Brazilian Amazon,” Introductory Presentation at research presentations addressing, “Is there a Future for Amazonia?” Brazil week at Michigan State University. April 10, 2000.

“Tropical Deforestation at Ground Level: The Changing Landscape of Amazonia.” Invited presentation. Center for Latin American and Caribbean Studies, Michigan State University, East Lansing, October 13, 1999.

“Modeling Land-Cover Change at Farm Level.” Invited seminar, Department of Geography, Michigan State University, East Lansing, March 30, 1999.

“Landscape Dynamics and Demographic Change: The Case of South Florida.” Invited presentation. FSU Population Center Brown Bag Seminar Series, Florida State University, April 18, 1996.

“Land Concentration in the Brazilian Amazon: Structural or Demographic Phenomenon?” Invited presentation. FSU Geography Seminar Series. Nov 17, 1995.

“Micro-level Determinants of Deforestation.” Invited presentation. Florida State University Population Center Brown Bag Seminar Series, Florida State University, February 17, 1995.

“Dynamics of Land Use at Household Levels: A Simulation Approach.” Invited presentation. Statistics Colloquium, Department of Statistics, Florida State University, March 17, 1994.

“Dynamics of land use at household level in tropical forest zones.” Invited presentation. Doctoral Colloquium, Department of Urban and Regional Planning, Florida State University, November 2, 1993.

“Executive Summary of the Cost of Doing Business Study.” Presentation to the Interim Commission on Employment Opportunities and Economic Development in Charleston, WV, April 6, 1987.

“Final Report on the Cost of Doing Business Study.” Presentation. Interim Commission on Employment Opportunities and Economic Development in Charleston, WV, February 13, 1987.

“Preliminary Report on the Cost of Doing Business Study.” Presentation. Interim Commission on Employment Opportunities and Economic Development in Charleston, WV, December 8, 1986.

“The Cost of Doing Business and Site Search Behavior.” Presentation. Regional Research Institute Joint Seminar Series (WVU) in Morgantown, WV, November 22, 1986.

## **ORGANIZATIONAL ACTIVITY**

### **Activities Chaired and Organized**

Organizer. Mega Projects in the Amazon (I) The Trans-Amazon Highway: Past, Present, and Future. Paper Session at the 106<sup>th</sup> Annual Meetings of the Association of American Geographers. Seattle, April 13, 2011.

Organizer. Mega Projects in the Amazon (II) The Trans-Amazon Highway: Past, Present, and Future. Panel Session at the 106<sup>th</sup> Annual Meetings of the Association of American Geographers. Seattle, April 13, 2011.

Organizer of session: Tendências atuais e futuras de mudanças de uso e cobertura da terra e intensificação da agricultura. Conferencia Científica Internacional LBA, GEOMA & PPBio. Manaus, Brazil, 20 Nov 2008.

“Amazon and Environment 1.” Organizer. Session at the 100<sup>th</sup> Annual Meetings of the Association of American Geographers. Denver, April 5-9, 2005.

Co-organizer for special session on “Land Use and Land Cover Change: Remote Sensing and GIS Applications,” at the 97<sup>th</sup> Annual Meetings of the Association of American Geographers, New York City, February 28, 2001

Brazil Week, Michigan State University. Co-organizer. East Lansing, Michigan. February 21-28, 2001.

“Is there a Future for Amazonia?” Organizer and Chair for research presentations during Brazil Week, at Michigan State University, April 10, 2000.

“Pattern to Process in Land Cover Change.” Session Organizer and Chair (with David Skole). Special Session at the 96<sup>th</sup> Annual Meetings of the Association of American Geographers, Pittsburgh, April 4-8, 2000.

“Does Place Matter: Explaining Tropical Deforestation and Land Use” Roundtable Organizer and Chair (with David Skole). Special Session at the 96<sup>th</sup> Annual Meetings of the Association of American Geographers, Pittsburgh, April 4-8, 2000.

“Comprehending Tropical Land Cover Change I: A View from the Social Sciences.” Session Organizer and Chair (with Luc Anselin). Special session at the 46<sup>th</sup> North American Meetings of the Regional Science Association. Montreal, Quebec, November 11-14. 1999.

“Comprehending Tropical Land Cover Change II: A View from the Social Sciences.” Session Organizer and Chair (with Luc Anselin). Special session at the 46<sup>th</sup> North American Meetings of the Regional Science Association, Montreal, Quebec, November 11-14, 1999.

“The Tropical Forestry Initiative.” Organized a meeting for Forest Service Economists, Rio Piedras, Puerto Rico, February 4-5, 1992.

“Population and the Environment.” Session organizer for meetings of the Southern Demographic Association, Jacksonville, Florida, October 10-12, 1991.

Session Chair for Modelling Ecological and Economic Systems session at the Conference on the Ecological Economics of Sustainability, The World Bank, Washington, D.C., May 21-23, 1990.

Session Organizer for Session 58 on Industrial Location at the 33rd North American Meetings of the Regional Science Association, Columbus, OH, November 14-16, 1986.

Session Chair, 17th Annual Pittsburgh Conference on Simulation, Pittsburgh, PA, April 1986.

### **Workshops, Symposia, and International Training**

Discussion Forum Leader, with Lisa Curran and Dan Brown. “Science, Emerging Issues and Future Directions: Changing Land Use, Human-Ecosystem Interactions,” at the NASA Carbon Cycle & Ecosystems Joint Science Workshop, April 29, 2008.

Organizer for session on social science data needs at workshop “Observations of land cover and needs of research projects in the Boreal zone of northern Eurasia.” Sponsored by NASA, St. Petersburg, Russia, June 18-19, 2005.

Managing Forest Resources in the Amazon: the “Terra do Meio.” Special sessions convened at the XLI Congresso da SOBER. Juiz de Fora, Brazil. July 27-30, 2003. Sponsored by CNPq and the US National Science Foundation.

Land Cover Dynamics in the Amazon: Social Science Debates and the Struggle for Synthesis.



Symposium at Second Science Meeting, NASA-LBA Program. Manaus, Brazil. July 11-12, 2002.  
Sponsored by NASA.

Workshop on Secondary Vegetation for NASA's LBA-ecology Program. Tallahassee, FL. February 25-26, 1999. Sponsored by NASA.

Computer/GIS Training for Brazilian Scientists. Tallahassee, FL. Spring 1996. Six weeks. Sponsored by U.S. Agency for International Development/SUNY Program.

"Land use dynamics in the Amazonian uplands: Implications for sustainability and development."  
Special session for the Annual Meetings of the Association of American Geographers and IGU  
Commission on Critical Environmental Situations and Regions. San Francisco, CA, March 30, 1994.  
Sponsored by U.S. Forest Service.

"Implementation of Regional Socio-Ecological Laboratories." Workshop organized and presented on invitation from Brazilian government agencies SUDAM, EMBRAPA/CPATU, and IDESP. Belém, Brazil, April 9-10, 1992.

## **TEACHING**

### **Recognition**

Teacher Incentive Program, Florida State University, 1997.  
College of Social Science Nominee.

### **Courses Taught**

Environmental Catastrophes, Tipping Points and Challenges (GEO 4938/6978)  
Introduction to Quantitative Analysis for Geographers (GEO 3162/Geo 6160)  
Spatial Regression and Modeling (GEO 4938/6978)  
Seminar on Amazonia (GEA 6466)  
Spatial Regression and Modelling (GEO 868, Graduate)  
Human Systems and Environment (ESP802, Environmental Science and Policy, Michigan State University, Graduate)  
Economic Geography (GEO 113, Michigan State University, Undergraduate)  
People and Environment (ISS 310, Michigan State University, Undergraduate)  
Research Seminar, The Human Dimensions of Global Environmental Change (GEO 892, Michigan State University, Graduate)  
Seminar in Human Geography (GEO 872, Michigan State University, Graduate)  
Environmental Science (GEO 1331, Florida State University, Undergraduate)  
Spatial Data Analysis (GEO 4185, Florida State University, Undergraduate)  
Environment and Development (GEO 4930/5934 – special topics, Florida State University, Undergraduate and Graduate)  
Quantitative Geography (GEO 4164/5165, Florida State University, Graduate)  
Physical Geography (GEO 107, West Virginia University, Undergraduate)  
Human Geography (GEO 108, West Virginia University, Undergraduate)  
Urban and Regional Planning (GEO 425, West Virginia University, Undergraduate)

## Students Advised

### *Current Committees*

Aghane De Carvalho Antunes (Masters in Geography – member, University of Florida)

### *Degrees Awarded*

Michael Waylen (PhD in Geography – committee member, University of Florida)  
Tania Romero Batista (Masters – committee member, University of Florida)  
Maira Irigaray (PhD in Geography -- committee member, University of Florida)  
Gabriel Carrera (PhD in Geography – chair, University of Florida)  
Aline Carrara (PhD in Geography – chair, University of Florida)  
Percy Peralta (PhD in SNRE – committee member, University of Florida)  
Alexandra Sabo (PhD in Geography -- member, University of Florida)  
Madison Jones (PhD in English – committee member, University of Florida)  
Michael Essbach (PhD in SNRE -- committee member, University of Florida)  
Ryan Thompson (PhD in Sociology – committee member, University of Florida)  
Johanna Espin (PhD in Sociology – committee member, University of Florida)  
Williams Castro (PhD in Geography -- chair, University of Florida)  
Yankuic Galvan (PhD in Geography – chair, Michigan State University)  
Peter Richards (PhD in Geography – chair, Michigan State University)  
Ritaumaria Pereira (PhD in Geography – committee member, Michigan State University)  
Sarah Hessian (PhD in Geography – chair, Michigan State University)  
Sigismond Wilson (PhD in Geography – committee member, Michigan State University)  
Stephen Aldrich (PhD in Geography – chair, Michigan State University)  
Marcellus Caldas (PhD in Geography – chair, Michigan State University)  
Ana Cristina (Masters in Geography – committee member, Universidade de São Paulo)  
Eugenio Arima (PhD in Geography – chair, Michigan State University)  
Ricardo Labarta (Masters in Agricultural Economics – committee member, Michigan State University)  
Marcellus Caldas (PhD in Applied Economics, co-chair, University of São Paulo)  
Dante Vergara (MA in Geography – chair, Michigan state University)  
Yushuang Zhou (PhD in Geography – committee member, Michigan State University)  
Osman Wallace (Masters in Geography, committee member, Michigan State University)  
Xiomara Cordoba (Masters in Geography, committee member, Michigan State University)  
Jim Wood (Masters in Geography, committee member, Florida State University)  
George Cole (Masters in Geography, committee member, Florida State University)  
Li Zhi (Masters in Geography, committee member, Florida State University)  
Joe Cudjoe (PhD in Urban and Regional Planning, committee member, Florida State University)  
Dave Dismukes (PhD in Economics, committee member, Florida State University)  
Matt Allman (Masters in Geography, chair, Florida State University)  
Alex Darrough (Masters in Geography, chair, Florida State University)  
Paula Fischl (Masters in Geography, chair, Florida State University)  
Helge Swanson (Masters in Geography, chair, Florida State University)  
Susan Goggin (Masters in Geography, chair, Florida State University)  
Janet Pender (Masters in Geography, chair, Florida State University)  
Tom Titus (Masters in Geography, chair, West Virginia University)

Eric Culp (Masters in Geography, chair, West Virginia University)  
Joel Halverson (Masters in Geography, committee chair, West Virginia University)

### **Post-Doctoral Orientation**

Neiva Araujo (Planner, Federal University of Rondonia)  
Marcelo Diniz (Economist, Federal University of Pará, Brazil)  
Marcia Diniz (Economist, Federal University of Pará, Brazil)

## **SERVICE AND OUTREACH**

### **International**

Scientific Steering Committee, College of Global Change and Earth System Science, Beijing Normal University. 2008 - 2010.

Scientific Steering Committee. Large-Scale Biosphere/Atmosphere (LBA) Experiment in Amazônia. 2007 - 2009.

Advisory Board, Instituto do Homem e Meio Ambiente da Amazonia. IMAZON, Belém, Brazil. 2003-present.

Roster of Urban Experts. Nominated by the US National Committee of the Man and the Biosphere Programme (MAB) to the Urban Expert Roster of the United Nations Educational, Scientific and Cultural Organization (UNESCO). 2001-present.

International Geographical Union. Appointed to the Study Group on Critical Zones in Global Environmental Change as a corresponding member, 1991.

Department of State. Appointed to Human Dominated Systems Directorate of the Man and the Biosphere Program, 1989 - 1992.

Department of State. Re-appointed to Human Dominated Systems Directorate of the Man and the Biosphere Program, 1993.

### **National**

Biofuels and Climate Change: Farmers' Land Use Decisions (BACC: FLUD) Advisory Board. University of Kansas. 2010- present.

Expert, on the Everglades Hub, 2009- present.

Editorial Board, *Annals of the Association of American Geographers*. 2007-2011.

PERN Seminar Series, Panel of Experts, April 2006. Columbia University.

The National Aeronautics and Space Administration, New Investigator Program Panel. April 2006.

The National Institutes of Health, Health of the Population Special Emphasis Panel. October 2005.

AAG International Research and Scholarly Exchange Committee, 2003-2004.

Environmental Science and Policy Program advisory group, Michigan State University, 2003-2004.

National Science Foundation Advisory Panel

Biocomplexity in the Environment: Dynamics of Coupled Natural and Human Systems, 2003

National Science Foundation Advisory Panel

Biocomplexity in the Environment: Dynamics of Coupled Natural and Human Systems, 2002

Editorial Board *Urban Ecosystems* 1996 –2006.

### **Departmental and University Service**

Chair of Geography Chair Search Committee Fall 2015, Spring 2016

Chair of TCD Field Grants Awards Committee Spring 2016

Charles Wood Thesis Award Committee, member. Fall 2015

Chair of Marianne Schmink Innovation Awards Committee Fall 2015

Africanist Search Committee Chair, Department of Geography. 2006.

Advisory Committee to Chair, Department of Geography. 2004-2007.

University Grievance Committee , Michigan State University. 2002 - present.

College of Social Science Curriculum Committee, Michigan State University. 2000 - 2002.

Committee on Foreign Language Area Study (FLAS) Awards, Center for Latin American Studies, Michigan state University. 2000.

Ad Hoc Committee on Merit Pay and Variable Loads, Department of Geography, Michigan State University, 1999.

Committee on Graduate Awards, Department of Geography, Michigan State University, 2000.

Director, FSU Department of Geography Internship Program 1994-1999.

Author and lead FSU contact: International Agreements with Brazilian agency, EMBRAPA/ CPATU, and University of São Paulo 1994-1999.

Executive Committee, Department of Geography, Florida State University, 1996/1997.

College of Social Sciences GIS Laboratory Committee, Florida State University, 1999.

Department of Geography Machinery Committee, Florida State University, 1999.

University Promotion and Tenure Committee, Florida State University, 1994.

College Promotion and Tenure Committee, Florida State University, 1994. 1996. 1998.

### **Professional Organizations**

Association of American Geographers

### **University Affiliations**

Women and International Development Program, Michigan State University, Consulting Faculty (2000-2014)

Center for Latin American Studies, Michigan State University, Affiliated Faculty (2000-2014)

### **Reviewer for:**

-- Journals

*Agroforestry Systems, Annals of the Association of American Geography, BioScience, Demography, Ecological Economics, Ecology and Society, Economic Geography, Ecological Modelling, Geographical Review, Geographical Analysis, Human Ecology, International Regional Science Review, The Journal of Ecological Anthropology, The Journal of Environmental Management, The Journal of Planning Education and Research, The Journal of Regional Science, Land, Land Use Policy, Latin American Research Review, Nature Climate, Philosophical Transaction of the Royal Society B: Biological Sciences, Political Geography, Proceedings of the National Academy of Sciences, The Professional Geographer, Social Science Quarterly, Urban Ecosystems, World Development*

-- Proposals

The National Institute of Health

The National Science Foundation

The National Aeronautics and Space Administration

Netherlands Foundation for the Advancement for Tropical Research

### **Editorial Boards**

Association of the American Association of Geographers (2010-2013).

Geoforum (2016-2020).

### **Sample Publicity**

Reddit AMA (with University of Florida), August 28,

2019. [https://www.reddit.com/r/IAmA/comments/cwlw3u/im\\_an\\_environmental\\_scientist\\_geographer\\_and/?sort=top](https://www.reddit.com/r/IAmA/comments/cwlw3u/im_an_environmental_scientist_geographer_and/?sort=top) (3.8K, 92% upvote; last accessed December 9, 2023).

NBC interview, August 27, 2019. Why it will take more than \$20M to help Brazil put out Amazon fires. <https://www.nbcnews.com/news/world/why-it-will-take-more-20m-help-brazil-put-out-n1046926> (last accessed December 9, 2023)

Business Insider interview, February 5, 2019. Brazil's new president has started taking steps towards damaging the "lungs of the planet." <https://www.businessinsider.com/bolsonaro-plan-to-develop-amazon-rainforest-2019-1> (last accessed December 9, 2023).

LiveScience Interview (with NSF): Robert Walker "From Florida to Amazonia: Fighting Deforestation" <http://www.livescience.com/14753-robert-walker-fighting-deforestation-sl.html> (December 9, 2023).

LiveScience

<http://www.livescience.com/14633-exploring-logging-road-development-amazon-rainforest-ria.html> (accessed December 9, 2023).

NSF Discoveries. *Journey to the Center of the Amazon*.

[http://nsf.gov/discoveries/disc\\_summ.jsp?cntn\\_id=119428&org=NSF](http://nsf.gov/discoveries/disc_summ.jsp?cntn_id=119428&org=NSF) (accessed December 9, 2023).

Online story, *New York Times*, Green Blog, July 16, 2010:

<http://green.blogs.nytimes.com/2010/07/16/is-the-tide-turning-on-deforestation/> (accessed December 9, 2023)

NSF news, July 7, 2010:

[http://www.nsf.gov/news/news\\_summ.jsp?cntn\\_id=117350](http://www.nsf.gov/news/news_summ.jsp?cntn_id=117350) (accessed December 9, 2023)

NSF Discoveries [http://www.nsf.gov/discoveries/disc\\_summ.jsp?cntn\\_id=112962](http://www.nsf.gov/discoveries/disc_summ.jsp?cntn_id=112962) 2009- present (accessed December 9, 2023).

Reservas Ajudam a Impedir a savanização da Amazonia, *Estado de São Paulo*, A20, June 16, 2009.

## Radio

Live Radio Interview, July 25, 2010: *The Warren Pierce Show*, WJR Radio AM 760 Detroit

BBC Interview: "Roads in the Amazon," February 17, 2007.

National Public Radio Interview: "Roads in the Amazon," February 17, 2007.

## Video and photo credits

River photographs in *Endangered Amazon: An Indigenous Tribe Fights Back Against Hydropower Development in the Tapajós Valley*. 2018. *Environment: Science and Policy for Sustainable Development*. 60(2): 4-15.

Big Ten Network, MSU, November 2010 youtube release:

<http://www.youtube.com/watch?v=iPU-ba476uo> (accessed December 9, 2023).

*The Christian Science Monitor*, July 13, 2010:

<http://www.csmonitor.com/Science/2010/0713/Huge-Amazon-storm-killed-half-a-billion-trees-study->

[finds?sms\\_ss=email](#) (Accessed December 9, 2023).