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EDUCATION

2005 **Ph.D.** Geography, Michigan State University, MI
1997 **M.S.** Agricultural Economics, Pennsylvania State University, PA
1991 **B.S.** Agricultural Sciences, Federal University of Brasília, Brazil.

PROFESSIONAL POSITIONS

2017-Present **University of Texas at Austin** Associate Professor, Department of Geography and the Environment

2011-Present **University of Texas at Austin** Affiliated Faculty, Teresa Lozano Long Institute of Latin American Studies (LLILAS)

2015-Present **University of Brasilia** Visiting Professor during summer months, Department of Forest Engineering

2011-2017 **University of Texas at Austin** Assistant Professor, Department of Geography and the Environment

2006-2011 **Hobart and William Smith Colleges** Assistant Professor, Environmental Studies Program

2005-2006 **Michigan State University** Research Associate & Lecturer, Department of Geography.

PUBLICATIONS

Peer-Reviewed Articles

- 1) Simmons, C., Famolare, L., Macedo, M. Walker, R., Coe, M., Scheffers, B, **Arima, E.Y.** et al. Science in support of Amazonian conservation in the 21st century: the case of Brazil. *Biotropica* (in press).
- 2) Simmons, C., Walker, R., **Arima, E. Y.** et al. Discipline and develop: destruction of the Brazil nut forest in the lower Amazon basin. *Annals of the American Association of Geographers.* (in press).

- 3) Richards, P. and **Arima, E. Y.** (2018). Capital surpluses in the farming sector and agricultural expansion in Brazil. *Environmental Research Letters* 13(7), 075011.
- 4) Pfaff, A., Robalino, J., Reis, E., Walker, R., Perz, S., Laurance, W., Bohrer, C., Aldrich, S., **Arima, E. Y.**, Caldas, M., and Kirby, K. Roads & DDGs, tradeoffs and synergies: learning from Brazil's Amazon in distinguishing frontiers. *Economics: The Open-Access, Open-Assessment E-Journal*, Kiel Institute for the World Economy 12(2018-11), pp. 1-26.
- 5) Latrubesse, E. M., **Arima, E. Y.**, Dunne, T., Park, E., Baker, V. R., d'Horta, F. M., Wight, C., Wittmann, F., Zuanon, J., Baker, P. A., & Ribas, C. C. (2017). Damming the rivers of the Amazon basin. *Nature*, 546(7658), 363-369.
- 6) Richards, P., **Arima, E.**, VanWey, L., Cohn, A., & Bhattarai, N. (2017). Are Brazil's deforesters avoiding detection? *Conservation Letters* DOI: <http://dx.doi.org/10.1111/conl.12310>.
- 7) Tasker, K. A. & **Arima, E. Y.** (2016). Fire regimes in Amazonia: the relative roles of policy and precipitation. *Anthropocene*, 14, 46-57.
- 8) Laue, J. E., & **Arima, E. Y.** (2016). What drives downsizing of protected areas? A case study of Amazon National Park. *Journal of Latin American Geography*, 15(2), 7-31.
- 9) **Arima, E. Y.** (2016). A spatial probit econometric model of land change: the case of infrastructure development in Western Amazonia, Peru. *PLOS One*, 11(3): e0152058. DOI: <http://dx.doi.org/10.1371/journal.pone.0152058>.
- 10) Sultana, S., **Arima, E. Y.**, & Tasker, K. A. (2016). Combining H/A/Alpha polarimetric decomposition of PolSAR data with image classification for wetland identification: a case study of Pacaya- Samiria National Reserve, Peru. *Papers in Applied Geography*, 2(1), 9-24.
- 11) Simmons, C., Walker, R., Perz, S., **Arima, E.**, Aldrich, S., & Caldas, M. (2016). Spatial patterns of frontier settlement: balancing conservation and development. *Journal of Latin American Geography*, 15(1), 33-58.
- 12) **Arima, E. Y.**, Walker, R. T., Perz, S., & Souza Jr., C. (2015). Explaining the fragmentation in the Brazilian Amazon forest. *Journal of Land Use Science*, 11(3): 257-277. Publication online: April 2015. DOI: <http://dx.doi.org/10.1080/1747423X.2015.1027797>.
- 13) Laue, J. & **Arima, E. Y.** (2015). Spatially explicit models of land abandonment in the Amazon. *Journal of Land Use Science*, 48-75. DOI: <http://dx.doi.org/10.1080/1747423X.2015.1027797>
- 14) **Arima, E. Y.**, Barreto, P., Araújo, E., & Soares-Filho, B. (2014). Public policies can reduce tropical deforestation: lessons and challenges from Brazil. *Land Use Policy*, 41, 465-473.
- 15) Richards, P. D., Walker, R. T., & **Arima, E. Y.** (2014). Spatially complex land change: the indirect effect of Brazil's agricultural sector on land use in Amazonia. *Global Environmental Change*, 29,1-9.
- 16) **Arima, E. Y.**, Walker, R. T., Souza Jr., C., Pereira, R., & do Canto, O. (2013). Spontaneous colonization and forest fragmentation in the Central Amazon Basin. *Annals of the Association of American Geographers*, 103(6), 1485-1501.
- 17) **Arima, E. Y.**, Walker, R. T., & Vergara, D. G. (2013). Assessing the performance of linear feature models: an approach to computational inference. *Photogrammetric Engineering and Remote Sensing*, 79(9), 847-855.
- 18) Walker, R., **Arima, E.**, Messina, J., Soares-Filho, B., Perz, S., Vergara, D., Sales, M., Pereira, R., & Castro, W. (2013). Modeling spatial decisions with graph theory: logging roads and forest fragmentation in the Brazilian Amazon. *Ecological Applications*, 23(1), 239-254.
- 19) **Arima, E. Y.**, Richards, P., Walker, R.T., & Caldas, M. M. (2011). Statistical confirmation of indirect land use change in the Brazilian Amazon. *Environmental Research Letters* 6(2), Word Count: 2,478. DOI:10.1088/1748-9326/6/2/024010.
- 20) Walker, R., & **Arima, E.** (2011). Smallholder timber sales along the Transamazon Highway: a comment. *Ecological Economics*, 70, 1565-1567.
- 21) Walker, R., Simmons, C., Aldrich, S., Perz, P., **Arima, E.**, & Caldas, M. (2011). The Amazonian

- theater of cruelty. *Annals of Association of American Geographers*, 101(5), 1156-1170.
- 22) Simmons, C., Walker, R., Perz, S., Aldrich, S., Caldas, M., Pereira, R., Leite, F., Fernandes, L. C., & **Arima, E.** (2010). Doing it for themselves: direct action land reform in the Brazilian Amazon. *World Development*, 38(3), 429-444.
- 23) Caldas, M. M., Simmons, C., Walker, R., Perz, S., Aldrich, S., Pereira, R., Leite, F., & **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.
- 24) Walker, R., Moore, N. J., **Arima, E.**, Perz, S., Simmons, C., Caldas, M., Vergara, D., & Bohrer, C. (2009). Protecting the Amazon with protected areas. *Proceedings of the National Academy of Sciences*, 106(26), 10582-10586.
- 25) Walker, R., Browder, J., **Arima, E.**, Simmons, C., Pereira, R., Caldas, M., Shiota, R., & de Zen, S. (2009). Ranching and the new global range: Amazônia in the 21st century. *Geoforum*, 40(5), 732-745.
- 26) Perz, S. G., Caldas, M., Walker, R., **Arima, E.**, & Souza Jr., 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.
- 27) **Arima, E. Y.**, Walker, R. T., Sales, M., Souza Jr., C., & Perz, S. G. (2008). The fragmentation of space in the Amazon basin: emergent road networks. *Photogrammetric Engineering and Remote Sensing*, 74(6): 699-709.
- 28) Pontius Jr., R. G., Walker, R., Yao-Kumah, R., **Arima, E.**, Aldrich, S., Caldas, M., & Vergara, D. (2007). Accuracy assessment for a simulation model of Amazonian deforestation. *Annals of the Association of American Geographers*, 97(4), 677-695.
- 29) **Arima, E. Y.**, Simmons, C. S., Walker, R. T., & Cochrane, M. A. (2007). Fire in the Brazilian Amazon: a spatially explicit model for policy impact analysis. *Journal of Regional Science*, 47(3), 541-567.
- 30) Moore, N., **Arima, E.**, Walker, R., & da Silva, R.R. (2007). Uncertainty and the changing hydroclimatology of the Amazon. *Geophysical Research Letters*, 34(14), Word Count: 2,130. DOI:10.1029/2007GL030157.
- 31) Simmons, C. S., Walker, R. T., **Arima, E. Y.**, Aldrich, S. P., & Caldas, M. M. (2007). The Amazon land war in the South of Pará. *Annals of the Association of American Geographers*, 97(3), 567-592.
- 32) Perz, S. G., Caldas, M. M., **Arima, E.**, & Walker, R. (2007). Unofficial road building in the Amazon: socioeconomic and biophysical explanations. *Development and Change*, 38(3), 529-551.
- 33) Perz, S. G., Overdevest, C., Caldas, M. M., Walker, R. T., & **Arima, E. Y.** (2007). Unofficial road building in the Brazilian Amazon: dilemmas and models for road governance. *Environmental Conservation*, 34(2), 1-10.
- 34) Caldas, M., Walker, R., **Arima, E.**, Perz, S., Aldrich, S., & Simmons, C. (2007). Theorizing land cover and land use change: the peasant economy of Amazonian deforestation. *Annals of the Association of American Geographers*, 97(1), 86-110.
- 35) Pfaff, A., Robalino, J., Walker, R., Aldrich, S., Caldas, M., Reis E., Perz, S., Bohrer, C., **Arima, E.**, M., Laurance, W., & Kirby, K. (2007). Road investments, spatial spillovers, and deforestation in the Brazilian Amazon. *Journal of Regional Science*, 47(1), 109-123.
- 36) Aldrich, S., Walker, R. T., **Arima, E. Y.**, Caldas, M. M., Browder, J. O., & Perz, S. (2006). Land-cover and land-use change in the Brazilian Amazon: smallholders, ranchers, and frontier stratification. *Economic Geography*, 82(3), 265-288.
- 37) Perz, S. G., Souza Jr., C., **Arima, E.Y.**, Caldas, M., Brandão Jr., A. O. de., Souza, F. K. A. de, & Walker, R. (2005). O dilema das estradas não-oficiais na Amazônia [The dilemma over unofficial roads in the Amazon.] *Revista Ciência Hoje*, 222(37), 56-58. (In Portuguese).

- 38) **Arima, E. Y.**, Walker, R. T., Perz, S. G., & 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.
- 39) Hupy, J. P., Aldrich, S. P., Schaetzl, R. J., Varnakovida, P., **Arima, E. Y.**, Bookout, J. R., Wiangwang, N., Campos, A. L., & McKnight, K. P. (2005). Mapping soils, vegetation, and landforms: an integrative physical geography field experience. *The Professional Geographer*, 57(3), 438-451.
- 40) Walker, R., Drzyzga, S. A., Li, Y., Qi, J., Caldas, M., **Arima, E.**, & Vergara, D. (2004). A behavioral model of landscape change in the Amazon basin: the colonist case. *Ecological Applications*, 14(4 - Supplement), s299-s312.
- 41) Simmons, C. S., Walker, R. T., Wood, C., **Arima, E.**, & Cochrane, M. (2004). Wildfires in Amazonia: A pilot study examining the role of farming systems, social capital, and fire contagion. *Journal of Latin American Geography*, 3(1), 81-96.
- 42) **Arima, E. Y.**, & Uhl, C. (1997). Ranching in the Brazilian Amazon in a national context: economics, policy, and practice. *Society and Natural Resources*, 10(5), 433-451.

Editorial Work

- 43) **Arima, E.** (2014). Guest Editor of the Journal *Land*, Special Issue "Land Change Modeling: Connecting to the Bigger Picture". (ISSN 2073-445X). DOI: http://www.mdpi.com/journal/land/special_issues/landchange_modeling

Technical Volumes

- 44) Young, K.R., Arima, E.Y., Ashkenazi, E., & Mercado, A. (2017). Amenazas a los servicios ambientales de Loreto, Perú. Lima, Peru: Wildlife Conservation Society. 87 pp. (In Spanish)
- 45) Barreto, P., Pereira, R., & **Arima, E.** (2008). A pecuária e o desmatamento na Amazônia na era das mudanças climáticas [Cattle ranching and deforestation in Amazonia in the age of climate change.] Belém, Brazil: IMAZON. 44 p. (In Portuguese).
- 46) **Arima, E.**, Barreto, P., & Brito, M. (2006). *Cattle ranching in the Amazon: trends and implications for environmental conservation*. Belém, Brazil: IMAZON. 75 pp.
- 47) Schneider, R. R., **Arima, E.**, Verissimo, A., Barreto, P. & Souza Jr., C. (2002). *Sustainable Amazon: limitations and opportunities for rural development*. Translated by: M. Schulze, Environmental Series. Washington, DC: World Bank. IMAZON, 63 pp.

Peer-Reviewed Book Chapters

- 48) **Arima, E. Y.**, Richards, P. & Walker, R. T (2017). Biofuels production expansion and the spatial economy: implications for the Amazon basin in the 21st century. In: *Bioenergy and Land Use Change*, eds Qin Z, Mishra U., & Hastings A. John Wiley & Sons, Inc., Hoboken, NY.
- 49) **Arima, E. Y.**, Walker, R. T., Perz, S. & Souza Jr., C. (2017). Procesos socio-temporales explican los patrones de fragmentación de la Amazonía Brasileña [Socio-temporal processes explain patterns of fragmentation in the Brazilian Amazon.] In: *Naturaleza y Sociedad: perspectivas socio-ecológicas sobre cambios globales en América Latina [Nature and Society: socio-ecological perspectives on global changes in Latin America]*, eds Postigo, J. C. & Young, K. R. Lima: desco, IEP and INTE-PUCP, p. 109-138. (In Spanish).

- 50) Schroeder, W., Alencar, A., **Arima, E.**, & Setzer, A. (2009). The spatial distribution and inter-annual variability of fire in Amazonia. In: *Amazonia and Global Change*, eds. Keller, M., Bustamante, M., Gash, J. & Dias, P. S. Washington, DC: American Geophysical Union, p. 43-60.
- 51) **Arima, E. Y.** (1998). Subsídios, eficiência e iniquidade: o setor pecuário na Amazônia [Subsidies, efficiency, and inequality: the ranching sector in Amazonia.] In: *O Agronegócio Brasileiro: Desafios e Perspectivas [Brazilian Agribusiness: Challenges and Perspectives]*, eds. Aguiar, D. R. P. & Pinho, J. B. Vol II, Brasília, SOBER. p. 479-496. (In Portuguese).

Invited Book Chapters

- 52) Walker, R., Perz, S., **Arima, E.**, & Simmons, C. (2011). The Transamazon Highway: past, present, future. In: *Engineering Earth: the Impacts of Megaengineering Projects*, ed. Brunn, S. D. Springer Verlag, p. 569-599.
- 53) Simmons, C. S., Walker, R. T., **Arima, E. Y.**, Aldrich, S. P., & Caldas, M. M. (2008). A guerra Amazônica pela terra no Sul do Pará [Land Wars in Southern Pará.] In: *Sociedade, Território e Conflitos: BR-163 em Questão [Society, Territory, and Conflicts: BR-163 in Question]*, ed. Castro, E. R. de. Belém, UFPA/NAEA, p. 85-146. (In Portuguese).
- 54) Costa, F. G., Caixeta Filho, J. V. & **Arima, E.** (2001). Influência do transporte no uso da terra: o caso da logística de movimentação de grãos e insumos na Amazônia Legal [The role of transportation in land use: the case of grain logistics in Amazonia.]. In: *Transporte e logística em sistemas agroindustriais [Transport and Logistics in agroindustrial systems]*, eds. Caixeta Filho, J. V. & Gameiro, A. H.. São Paulo, Editora Atlas. (In Portuguese).
- 55) **Arima, E.** (2000). Caracterização dos produtores familiares rurais beneficiários do FNO-Especial [Description of households recipients of rural credit in Pará.] In: *Campesinato e Estado na Amazônia: impactos do FNO no Pará [Peasants and the State in Amazonia: impacts of FNO in Pará]*, eds Tura, L. R. & Costa, F. A. Brasília, Brasília Jurídica: FASE, p. 107-128. (In Portuguese).
- 56) **Arima, E.** (2000). A distribuição especial do crédito do FNO no estado do Pará [The spatial distribution of rural credit in Pará state.] In: *Campesinato e Estado na Amazônia: impactos do FNO no Pará [Peasants and the State in Amazonia: impacts of FNO in Pará]*, eds Tura, L. R. & Costa, F. A. Brasília, Brasília Jurídica: FASE, p. 47-61. (In Portuguese).

Other Non-Refereed Publications

- 57) Richards, P., Cohn, A., **Arima, E.**, VanWey, L., & Bhattarai, N. (2017). Enforcement evasion highlights need for better satellite-based forest governance. Conservation Letters, Word Count: DOI: <http://dx.doi.org/10.1111/cons.12379>
- 58) Walker, R., **Arima, E.**, Perz, S., & Souza Jr., C. (2016). Re: Designing corridors for people and nature. *Science*, eLetters, Word Count: 246. DOI: <http://science.sciencemag.org/content/350/6265/1160.e-letters>.
- 59) Walker, R., **Arima, E.**, Messina, J., Soares-Filho, B., Perz, S., Vergara, D., Sales, M., Pereira, R. Castro, W. (2013). Spatial decisions and fragmentation in the Amazon. *Bulletin of the Ecological Society of America*, 94, 100-104. DOI: <http://www.esajournals.org/doi/pdf/10.1890/0012-9623-94.1.100>
- 60) **Arima, E.** & Verissimo, A. (2002). *Preços da madeira em pé em pólos madeireiros próximos a cinco florestas nacionais da Amazônia [Prices of wood in logging centers near five national*

- forests in Amazonia.*] Brasília: Ministério do Meio Ambiente - Programa Nacional de Florestas, 29 pp. (In Portuguese).
- 61) Arima, E. & Barreto, P. (2002). *Rentabilidade da produção de madeira em terras públicas e privadas na região de cinco florestas nacionais da Amazônia* [Logging profitability in public and private lands near five national forests in Amazonia.] Brasília: Ministério do Meio Ambiente - Programa Nacional de Florestas, 49 pp. (In Portuguese).
- 62) Barreto, P., Arima, E. (2002). *Florestas nacionais na Amazônia: consulta a empresários madeireiros e atores fains à política florestal* [National Forests in Amazonia: stakeholders opinions and perspectives]. Brasília: Ministério do Meio Ambiente - Programa Nacional de Florestas, 45 pp (In Portuguese).

Work in Progress

Peer-Reviewed Journal Articles or Book Chapters

- Latrubesse, E., Arima, E. et al. Fostering water resource governance and conservation in the Brazilian Cerrado biome (submitted).
- Aldrich, S., Simmons, C., Arima, E. et al. Agronomic and Contentious Land Change? A longitudinal analysis from the Eastern Brazilian Amazon (resubmit).
- Arima, E. & Leal, F. Measuring directional connectivity of Amazonian fragmented forests. (in preparation, 40% complete).
- Arima, E., Richards, P. and Walker, R. Agricultural intensification and indirect land use change in extensive frontiers (in preparation, 30% complete).
- Tasker, K., Arima, E., and Young, K. Design of an Amazonian carbon landscape (in preparation, 90% complete).

RESEARCH GRANTS

- 2016-2017 'Climate-change, agricultural development, and water resources in the MATOPIBA Region, Brazil' (PI), through University of Brasilia, CNPq – Brazil. Total funding awarded: R\$342,670 (approximately US\$86,532).
- 2015-2017 'Socio-Environmental Risk Assessment: Climate Change in the MATOPIBA Region, Brazil' (PI), through University of Brasilia, CNPq – Brazil, 2015-2017. Total funding awarded: R\$134,000 (approximately US\$59,030).
- 2012-2016 'Collaborative Research: Contentious Land Change in the Eastern Amazon' (PI of subcontract, Project Leader S. Aldrich), National Science Foundation (NSF), 2012-2016. Total funding awarded: \$157,529. UT total Subcontract - \$34,432.
- 2015-2016 'IBSS-Ex: An Interdisciplinary Approach to Understanding the Effectiveness of Aid-Funded Programs: Spatial Analysis of Development Outcomes', (Co-I of subcontract with Michael Findley, Project Leader Kenneth Kollman – University of Michigan), NSF, 2015-2016. Total funding awarded: \$250,000. UT Subcontract: \$62,491.

- 2011-2014 'Shifting Fire Regimes of the United States, Australia and the Brazilian Amazon: The Role of Climate Change, Land Use, and Mitigation Efforts' (PI of subcontract, Project Leader – Mark Cochrane – South Dakota State University), NASA. Total funding awarded: \$1,950,144. UT Subcontract: \$81,866.
- 2008-2013 'Collaborative Research: Territorializing Exploitation Space and the Fragmentation of the Amazon Forest' (Project Leader and Principal Investigator), NSF, 2008-2013. Total funding awarded: \$344,258. Original grant to Hobart and William Smith Colleges, then transferred to UT, award: \$154,676.
- 2008-2011 'Crossing Boundaries and Exploring Biodiversity Conservation Using Information Technologies' (Co-I with James MaKinster), NSF, 2008-2011. Total funding awarded to Hobart and William Smith Colleges: \$1,399,004.
- 2007-2011 'Biodiversity implications of forest disturbance and related landscape dynamics in the Brazilian Amazon' (PI of subcontract, Project Leader – Mark Cochrane – South Dakota State University), NASA. Total funding awarded: \$1,111,163, Hobart and William Smith Colleges subward: \$83,102.
- 2006-2010 'Collaborative Proposal: Globalization, Deforestation, and the Cattle Sector of the Brazilian Amazon' (PI of subcontract, Project Leader – Robert T. Walker – Michigan State University), NSF, 2006-2010. Total funding awarded: \$314,976.
- 2005-2006 'The Cattle Ranching Economy and the Future of the Amazon Forest', (Project Leader) The Ford Foundation. Total funding awarded: \$160,000.
- 2003-2007 'Sustainable Communities and Landscapes: A Proposed Program to Sustain Natural Ecosystems and Enhance Local Livelihoods in Brazil's Amazon and Atlantic Forest Regions', United States Agency for International Development, 2003- 2007, (Co-PI with Paulo Barreto, institutional funding to IMAZON). Total funding awarded: \$5,345,918.
- 2002-2004 'Coherent Public Policies for a Sustainable Amazon', (Co-I with Paulo Barreto, institutional funding to IMAZON) The Ford Foundation, 2002- 2004. Total funding awarded: \$350,000.
- 1999-2001 'Future scenarios of economic and sustainable development in Amazônia', (Project Leader), The Ford Foundation, 1999-2001. Total funding awarded: \$240,000.

AWARDS AND HONORS

- 2014 Third place recipient of the **2014 Environmental Systems Research Institute (ESRI) Award for Best Scientific Paper** in Geographic Information Systems for "Assessing the Performance of Linear Feature Models: An Approach to Computational Inference," *Photogrammetric Engineering and Remote Sensing*, 79 (9), 847-855, American Society for Photogrammetry and Remote Sensing.
- 2014 College Research Fellowship, Spring, The University of Texas at Austin.

- 2006 **Gil Chin Lim Award** for outstanding doctoral dissertation in Global Studies, International Studies Program, Michigan State University.
- 2004 **Kenneth E. Corey Research Enhancement Award**, College of Social Science, Michigan State University.
- 2003 **Tinker Field Research Grant**, Center of Latin American and Caribbean Studies (CLACS), Michigan State University.
- 2003 **Graduate Office Fellowship Award**, Michigan State University.
- 2002-2003 **Best Graduate Student of the Year Award** given by the Department of Geography.
- 1995-1997 **ADC Brazil Training Program/USAID Award** - Masters Program at Pennsylvania State University.
- 1989-1990 **Initiation in Science Scholarship** from CNPq (Brazilian Research Council).

CONFERENCE AND SEMINAR PRESENTATIONS

- **Arima, E.** Indirect land use change in Brazil: new evidence from land prices and remote sensing. Conference of Latin Americanist Geographers, *San José, Costa Rica, May 2018.*
- **Arima, E.** Remote Sensing and Land Prices as tools to understand land system dynamics. Annual Meeting of the American Association of Geographers, *New Orleans, LA, April 2018.*
- **Arima, E.** Agricultural intensification and the spatial economy: implications for extensive frontiers in Brazil. Workshop on Land Use Spillover and Leakage Effects: toward integrating concepts, empirical methods, and models. *Berlin, Germany, Nov 2017.*
- **Arima, E.** and E. Matricardi. Is deforestation leaking from Amazonia to the Cerrados? Conference of Latin Americanist Geographers, *New Orleans, LA, Jan 2017.*
- **Arima, E.** and E. Matricardi. The possible effects of indirect land use change and leakage in REDD+ in Brazil. 2016 Global Land Programme Open Science Meeting, *Beijing, China, October, 2016.*
- Brian, M. **Arima, E.**, Backer, D., Hicken, A., Kollman, K. & Selway, J. Local political competition and the effectiveness of agricultural aid in India. Annual Meeting of the Midwest Political Science Association, *Chicago, IL, April 2016.*
- **Arima, E.** & Leal, F. Measuring directional connectivity of Amazonian fragmented forests. Annual Meeting of the American Association of Geographers, *San Francisco, CA, March 2016.*
- **Arima, E.** Process-based models are necessary when pattern matters: the case of Amazonian deforestation. 9th International Association for Landscape Ecology World Congress, *Portland, OR, July 2015.*
- **Arima, E.** & Barreto, P. Governing the Amazon: public policies and market mechanisms can reduce tropical deforestation. 2014 Global Land Project Open Science Meeting, *Berlin, Germany, March 2014.*
- **Arima, E.** & Walker, R. Multi-scale explanation of the Amazonian forest fragmentation. US Chapter of the International Association for Landscape Ecology Annual Symposium, *Austin, TX, April 2013.*

- **Arima, E.** & Walker, R. Explaining the fragmentation in the Amazonian forest. Annual Meeting of the Association of American Geographers *Los Angeles, CA, April 2013*.
- **Arima, E.**, Walker, R. & Richards, P. Deforestation, regrowth, and conservation when markets are global: theorizing land trajectories in the Amazon. Annual Meeting of the Association of American Geographers, *New York, NY, March 2012*.
- **Arima, E.**, Walker, R. & Richards, P. Globalization and the spatial economy: implications for the Amazon Basin in the 21st Century. American Geophysical Union Fall Meeting, *San Francisco, CA, December 2011*. Invited Paper.
- **Arima, E.**, Walker, R., Pereira, R. & Browder, J. Globalization of the cattle economy in the Amazon: an opportunity to overcome inequality? Latin American Studies Association Annual Meeting, *Rio de Janeiro, Brazil, June 2009*.
- **Arima, E.**, Walker, R., Sales, M., Souza Jr., C. & Perz, S. The fragmentation of space in the Brazilian Amazon: emergent road networks. Large-Scale Biosphere-Atmosphere Experiment in Amazonia/NASA Scientific Conference, Manaus, Brazil, *November 2008*.
- **Arima, E.**, Walker, R., Browder, J. Globalization and the new cattle economy in the Brazilian Amazon: a new hamburger connection? 2008 Annual Meeting of the Association of American Geographers, *Boston, MA, April 2008*.
- **Arima, E.**, Walker, R. & Pfaff, A. Deforestation in the Amazon: modeling the impact of policy. 2007 Annual Meeting of the Association of American Geographers, *San Francisco, CA, April 2007*.
- **Arima, E.**, Walker, R., Sales, M., Souza Jr., C. & Brandão, A. Simulating forest fragmentation in the Amazon: the case of Terra do Meio. 2006 Annual Meeting of the Association of American Geographers, *Chicago, IL, April 2006*.
- **Arima, E.** Logging roads in the Amazon: a two-step GIS optimization model. 2005 Annual Meeting of the Association of American Geographers, *Denver, CO, April 2005*.
- **Arima, E.**, Walker, R., Perz, S. & Caldas, M. Logging roads in the Amazon Basin: building process and modeling challenges. III Large-Scale Biosphere-Atmosphere Experiment in Amazonia Scientific Conference, *Brasília, Brazil, July 2004*.
- **Arima, E.**; Walker, R.; Perz, S. & Caldas, M. Simulating logging roads expansion in the Brazilian Amazon. 2004 Annual Meeting of the Association of American Geographers, *Philadelphia, PA, April 2004*.
- **Arima, E.**, Walker, R., Perz, S. & Caldas, M. Spatial process of logging roads extension in the Brazilian Amazon. 2003 Annual Meeting of the Association of American Geographers, *New Orleans, LA, March 2003*.
- **Arima, E.** Land use in Amazônia: incentives and regulations. Dynamics in The Amazon: Social Science Debates and the Struggle for Synthesis. II Large-Scale Biosphere-Atmosphere Experiment in Amazonia Conference, *Manaus, Brazil, July 2002*.
- **Arima, E.** Land use in Amazônia: patterns, public policy and development. National Seminar on Amazon Development: the Avanço Brasil Program Debate. *Brasília, Brazil, April 2001* [in Portuguese].
- **Arima, E.**, Chomitz, K., Schneider, R. & Thomas, T. Optimizing land use in Amazônia: the role of incentives and regulation. USAID Amazon Program Annual Meeting. *Rio Branco, Brazil, November 2000*.
- **Arima, E.** 30 years of Transamazon: infrastructure projects and their demographic and environmental significance. XII Population Studies Brazilian Meeting. *Caxambu, Brazil, October 2000* [in Portuguese].
- **Arima, E.** Human capital and rural credit in Pará Brazil: new evidences of old problems. 37th Brazilian Conference of Agricultural Economics and Rural Sociology. *Foz do Iguaçu, Brazil, July 1999* [in Portuguese].
- **Arima, E.** & Uhl, C. Ranching in Eastern Amazônia: present and prospects. In: Common

Ground: Interdisciplinary Approaches to Biodiversity Conservation and Land Use Dynamics in the New World. *Belo Horizonte, Brazil May 1995* [in Portuguese].

OTHER SPEAKING ENGAGEMENTS

- **Arima, E.** Fire regimes in Amazonia: the relative roles of police and precipitation. South Dakota State University, Geospatial Science and Engineer Seminar, September 29, 2016.
- **Arima, E.** Fifty years of change in Amazonia: a land system science perspective. University of Texas at Austin, Geography and the Environment Colloquium, April 22, 2016.

SESSION OR PANEL ORGANIZATION

Assessing Ecosystem Services in the Anthropocene I & II (Co-organizer and chair of sessions). American Association of Geographers Annual Meeting, San Francisco, CA March 2016.

Land Systems Science Symposium: Case studies – Amazonia (Chair of session). American Association of Geographers Annual Meeting, Los Angeles, CA, April 2013.

Contemporary Geographies of Brazilian Land Use Change (II): Investment and Agricultural Intensification (Discussant of session). American Association of Geographers Annual Meeting, New York, NY, February 2012.

Creative Destruction II: The Social and Environmental Impacts of Large-Scale Infrastructure Projects in the Brazilian Amazon (Panelist). San Francisco, CA, April 2007.

Thirty Years of Development and Destruction in the Amazon (Chair of session). American Association of Geographers Annual Meeting, Denver, CO, April 2005.

ADVISING AND STUDENT-RELATED SERVICE

Dissertation Committees

- Sisimac Duchicela, Geography, 2016-present, (member)
- Aaron Groth, Geography, 2015-present, (member)
- Brendan Hoover, Geography, 2015-present, (member)
- Ross Buchanan, Government, 2018-present, (member)
- Nicole Payntar, Anthropology, 2018-present (member)
- Steven Richter, Community and Regional Planning, 2018-present (member)
- Edward Park, Geography, Ph.D in 2017, (member)
- Xuebin Yang, Geography, Ph.D in 2017, (member)
- Sara Diamond, Geography, 2013-present, (member)
- Maria Tereza Montalvao, Forestry Engineering at University of Brasilia, 2018 (ad-hoc member)

- Fabricio Leal, Forestry Engineering at University of Brasilia, 2014-present, (member)
- Paul Holloway, Geography, Ph.D. in 2016, (member)
- Gregory Schwartz, Geography, Ph.D. in 2015, (member)
- Fabrício Leal, visiting Ph.D. candidate, 2015, (supervising faculty at UT-Austin).
- Fabiano Emmert, Forestry Engineering at University of Brasilia, Ph.D. in 2014, (member)

Masters Committees

- Kaitlin Tasker, M.A., 2016, (chair)
- Steven Richter, M.A. in Community and Regional Planning, 2015, (member)
- Justin Laue, M.A. in Geography, 2014, (chair)
- Scott Robinson, M.A in Energy and Earth Resources, 2014, (member)
- Mayra Marques, M.A. in Latin American Studies, 2013, (Co-Chair with Shama Gamkhar)
- Edward Park, M.A. in Geography, 2013, (member)
- Christine Bonthius, M.A. in Geography, 2013, (member)

Undergraduate Honors Theses and Advising

- Yifan Lyu, Honors Thesis in Geography, 2018-present, (supervisor)
- Katherine Mills, Geography, 2017, Undergraduate Assistant Program, (supervisor)
- Emma Walker, Geography, 2016, Bridging Disciplines program, (supervisor)
- Preston McLaughlin, Honors Thesis in Geography, 2015, (supervisor)
- Divya Bhakta, Intellectual Entrepreneurship Pre-Graduate, 2015, (supervisor)
- Chandana Chitturi, Polymathic Scholars, 2015, (supervisor)
- Jeremiah Roy, Honors Thesis in Geography, 2015, (2nd reader)
- Adele Rife, Honors Thesis in Geography, 2013, (2nd reader)

ADMINISTRATIVE AND PROFESSIONAL SERVICE

Departmental Service

Department Review Chair (DRC), Human Subjects Institutional Review Board (IRB) (2016-present)
Colloquium Committee (2016-2018)
Undergraduate Committee (2012-2017)
Graduate and Awards Committee (2011-2012, 2013-2014, 2018-present)
Merit Committee (2012-2014)

University Service

Faculty Advisor of the American Society for Photogrammetry and Remote Sensing UT-Austin Student Chapter (2014-2018)
Working Group for new Bachelor of Arts in Sustainability Studies at UT-Austin (2015)

Hobart and William Smith Colleges

IRB committee member (2009-2011)
GIT Ahead steering committee (2008-2011)
Finger Lakes Institute advisory board (2006-2011)
Faculty Search committee (2007)

Reviewer for (number of ad hoc reviews since 2005):

Science (2), *PNAS* (3), *PLOS-One* (4), *Annals of the Association of American Geographers* (6), *World Development* (3), *Environment and Development Economics* (1), *Geoforum* (3), *Land Use Policy* (5), *Global Environmental Change* (2), *Environmental Research Letter* (3), *Journal of Regional Science* (2), *Conservation Letters* (1), *Acta Amazonica* (1), *Journal of Peasant Studies* (1), *The World Bank Economic Review* (1), *International Journal of Applied Earth Observation and Geoinformation* (1), *American Fern Journal* (1), *Journal of Environmental Economics and Management* (1), *Journal of Environmental Management* (1), *Journal of Environmental Planning and Management* (1), *Regional Environmental Change* (1), *Forestry: An International Journal of Forest Research* (1),

Research Proposal Reviewer for:

National Science Foundation – Geography and Spatial Sciences Program Proposals (6), Springer book proposal (1), National Geographic proposals (3).

PROFESSIONAL AFFILIATIONS

- US-International Association for Landscape Ecology (2013-present)
- American Society for Photogrammetry and Remote Sensing (2012-2018)
- American Association of Geographers (2001-present)
- Conference of Latin Americanists Geographers (2001-present)

LANGUAGES:

- Portuguese (mother language)
- English (fluent)
- Spanish (conversational)

Last Updated: November 2018.