

# Yuta J. Masuda

## PROFESSIONAL EXPERIENCE

---

<b>The Nature Conservancy, Global Science</b> <i>Senior Sustainable Development and Behavior Scientist</i>	July 2013 - present
<b>RTI International</b> <i>Research Associate, Health Economics</i>	2006 – 2008
<b>U.S. Peace Corps</b> <i>NGO Development Volunteer</i>	2005 – 2006

## EDUCATION

---

<i>Ph.D. Public Policy and Management, University of Washington</i> <i>Center for Studies on Demography and Ecology Certificate</i> <i>Center for Social Science Statistics Certificate</i> Focus: conservation, economics, development and environmental policy, climate change and health, environmental justice, sustainable development, demography, quantitative methods	2008-2014
<i>M.Sc. Public Policy and Management, University of Washington</i>	2011
<i>B.B.A. Economics, University of Georgia</i>	2005

## PUBLICATIONS

---

### Journal articles (\*denotes lead or senior author)

1. **Masuda, Y.J.\***, Garg, T., Anggraeni, I., Wolff, N.H., Ebi, K., Game, E.T., Krenz, J., & Spector, J. (2021). Warming from tropical deforestation reduces worker productivity in rural communities. *Nature Communications*.
2. Weigel, C., Harden, S., **Masuda, Y.J.**, Ranjan, P., Wardropper, C.B., Ferraro, P., Reddy, S., & Prokopy, L. (2021). Conservation Experiments: Testing to improve program design. *Conservation Letters*.
3. **Masuda, Y.J.\***, Harden, S., Ranjan, P., Wardropper, C., Weigel, C., Ferraro, P., Prokopy, L., & Reddy, S.M.W. (2021). Rented Farmland: The Missing Piece of the Nutrient Management Puzzle in the Upper Mississippi River Basin? *Journal of Soil and Water Conservation*.  
<https://doi:10.2489/jswc.2021.1109A>.
4. Tseng, J., Robinson, B.E., Bellemare, M.F., Blackman, A., BenYishay, A., Linkow, B., Moustapha, D., Sanjak, J., Naughton-Treves, L., Holland, M.B., Childress, M., Veit, P., Shyamsundar, P., Boucher, T., Kroeger, T., Rudel, T., Sunderlin, W., & **Masuda, Y.J.\*** (2020). Influence of land tenure interventions on human well-being and environmental outcomes. *Nature Sustainability*.
5. Reddy, S., Wardropper, C., Weigel, C., **Masuda, Y.J.**, Harden, S., Ranjan, P., Getson, J.M., Esman, L., Ferraro, P., & Prokopy, L. (2020). Conservation behavior and effects of economic and environmental message frames. *Conservation Letters*, e12750.
6. **Masuda, Y.J.\***, Garg, T., Anggraeni, I., Wolff, N.H., Ebi, K., Game, E.T., Krenz, J., & Spector, J.T. (2020). The effect heat exposure from tropical deforestation on cognitive performance: An experimental study. *Environmental Research Letters*. <https://doi.org/10.1088/1748-9326/abb96c> (Reported in [Science](#); [The Independent](#))
7. **Masuda, Y.J.\***, Williams, J.R., & Tallis, H. (2020). Does life satisfaction vary with time and income? Investigating the relationship among free time, income, and life satisfaction. *Journal of Happiness Studies*.

- 
8. Zeppetello Vargas, L.R., Parsons, L.A., Spector, J.T., Naylor, R.L., Battisti, D.S., **Masuda, Y.J.\***, Wolff, N.H. Large Scale Tropical Deforestation Drives Extreme Warming. *Environmental Research Letters*, 14,(8). <https://doi.org/10.1088/1748-9326/ab96d2>
  9. Mahajan, S.L., Jagadish, A., Glew, L., Ahmadi, G., Becker, H., Cox, C., DeMello, N., Fidler, R.Y., Harborne, A.R., **Masuda, Y.J.**, Jeha, L., McKinnon, M., Mills, M., Painter, M., Wilkie, D., Mascia, M.B. (2020). A theory-based framework for understanding the emergence, impacts, and spread of community-based conservation. *Conservation Science & Practice*.
  10. **Masuda, Y.J.\***, Fisher, J., Zhang, W., Castilla, C., Boucher, T., & Blundo, G.A. (2020). A respondent-driven method for mapping small agricultural plots using tablets and high resolution imagery. *Journal of International Development*. <https://doi.org/10.1002/jid.3475>.
  11. Cheng, S., McKinnon, M., **Masuda, Y.J.**, Garside, R., Jones, K.W., Miller, D.C., Pullin, A.S., Sutherland, W.J., Bethel, A., Augustin, C., Gill, D.A., Wongbusarakum, S., Wilkie, D. (2020). Strengthen causal models to avoid magical thinking. *PLOS ONE*, 15(3): e0230495. DOI: 10.1371/journal.pone.0230495.
  12. **Masuda Y.J.\***, Kelly, A.C., Robinson, B.E., Holland, M.B., Bedford, C., Childress, M., Game, E.T., Ginsburg, C., Hillhorst, T., Lawry, S., Miteva, D., Musengezi, J., Naughton, L., Sunderlin, W., & Veit, P. (2020). How do practitioners characterize land tenure security? *Conservation Science & Practice*. <https://doi.org/10.1111/csp2.186>.
  13. Tallis, H., ..., **Masuda, Y.J.**, et al. (2019). Aligning evidence generation and use across health, development and environment. *Current Opinion in Environmental Sustainability*, 39, 81-93.
  14. Spector, J.T., **Masuda, Y.J.**, Calkins, M., Seixas, N., & Wolff, N.H. (2019). Heat-related occupational injuries: Can cross-sectoral partnerships and global perspectives inform prevention? *Current Environmental Health Reports*. <https://doi.org/10.1007/s40572-019-00250-8>.
  15. Suter, M., Miller, K.A., Angraenni, I., Ebi, K.L., Game, E.T., Krenz, J., **Masuda, Y.J.\***, Sheppard, L., Wolff, N.H., & Spector, J. (2019). Association between work in deforested, compared to forested, areas and human heat strain: An experimental study in a rural tropical environment. *Environmental Research Letters*. <https://doi.org/10.1088/1748-9326/ab2b53>.
  16. Reddy, S.W., Torphy, K., Liu, Y., Chen, T., **Masuda, Y.J.**, Fisher, J.R.B., Galey, S., Burford, K., Frank, K.A., & Montambault, J. (2019). How different forms of social capital created through project team assignments influence employee adoption of sustainability practices. *Organization & Environment*. <https://doi.org/10.1177/1086026619880343>. (Reported in [EurekaAlert!](#))
  17. **Masuda, Y.J.\***, Castro, B., Angraenni, I., Wolff, N.H., Game, E., Garg, T., Krenz, J., Ebi, K., & Spector, J. (2019). How are healthy, working populations affected by increasing temperatures in the tropics? Implications for climate change adaptation policies. *Global Environmental Change*, 56, 29-40.
  18. Seymour, G., **Masuda, Y.J.**, Williams, J.R., & Schneider, K. (2019). Household and child nutrition outcomes among the time and income poor in rural Bangladesh. *Global Food Security*, 20(March 2019), 82-92.
  19. Ranjan, P., Wardropper, C., Eanes, F., Reddy, S.M.W., Harden, S., **Masuda, Y.J.**, Prokopy, L.S. (2019). Understanding barriers and opportunities for adoption of conservation practices on rented farmland. *Land Use Policy*, 80, 214-223.
  20. Schwartz, M., Belhabib, D., Biggs, D., Cook, C., Fitzsimons, J., Giordano, A.J., Glew, L., Gottlieb, S., Kattan, G., Knight, A.T., Lundquist, C., Lynam, A.J., **Masuda, Y.J.**, Mwampamba, T.H., Nuno, A., Plumptre, A.J., Ray, J.C., Reddy, S.M., & Runge, M.C. (2018). A vision for documenting and sharing knowledge in conservation. *Conservation Science and Practice*, 1(1), e1. <https://doi.org/10.1002/csp2.1>
  21. Game, E.T., Tallis, H., Olander, L., Alexander, S.M., Busch, J., Cartwright, N., Kalies, E.L., **Masuda, Y.J.**, Mupepele, A.C., Qui, J., Rooney, A., Sills, E.O., & Sutherland, W.J. (2018). Cross-disciplinary evidence principles for social-environmental sustainability. *Nature Sustainability*. DOI: 10.1038/s41893-018-0141-x
  22. Wolff, N.H., **Masuda, Y.J.**, Meijaard, E., Wells, J.A., & Game, E.T. (2018). Impacts of tropical deforestation on temperature and human well-being. *Global Environmental Change*, 52, 181-189.

- 
23. Cheng, S., Augustin, C., Bethel, A., Gill, D., Anzaroot, S., Brun, J., DeWilde, B., Minnich, R.C., Garside, R., **Masuda, Y.J.**, Miller, D.C., Wilkie, D., Wongbusarakum, S., & McKinnon, M.C. (2018). Using machine learning to advance synthesis and use of conservation and environmental evidence. *Conservation Biology*, 32(4), 762-764. <https://doi.org/10.1111/cobi.13117>.
  24. McLeod, E., Arora-Johnson, S., **Masuda, Y.J.**, Bruton-Adams, M., Dengokl, C.E., Gorong, B., Hudlow, C.J., James, R., Kuhlken, H., Masike-Liri, B., Musrasrik\_Carl, E., Otzelberger, A., Relang, K., Reyuw, B.M., Sigrah, B., Stinnett, C., Tellei, J., & Whitford, L. (2018). Raising the voices of Pacific Island women to inform climate adaptation policies. *Marine Policy*, 93, 178-185. <https://doi.org/10.1016/j.marpol.2018.03.011>.
  25. Fisher, J.R.B., Montambault, J., Burford, K., Gopalakrishna, T., **Masuda, Y.J.**, Reddy, S.M.W., & Salcedo, A.I. (2018). Knowledge diffusion within a large conservation organization and beyond. *PLOS ONE*, 13(3), e0193716.
  26. **Masuda, Y.J.\***, Liu, Y., Reddy, S.W., Frank, K.A., Burford, K., Fisher, J.R.B., & Montambault, J. (2018). Innovation diffusion within large environmental NGOs through informal network agents. *Nature Sustainability*. DOI: 10.1038/s41893-018-0045-9. (Reported in [Science Daily](#), [Phys.org](#), [Science Newslines](#))
  27. Robinson, B.E., **Masuda, Y.J.\***, Kelly, A.C., Holland, M.B., Bedford, C., Childress, M., Fletschner, D., Game, E.T., Ginsburg, C., Hillhorst, T., Lawry, S., Miteva, D., Musengezi, J., Naughton, L., Nolte, C., Sunderlin, W., & Veit, P. (2018). Incorporating land tenure security into conservation. *Conservation Letters*, 11(2), e12383.
  28. McKinnon, M.C., Cheng, S.H., Butterfield, R., DuPre, S., Edmond, J., Garside, R., Glew, L., Holland, M.B., Levine, E., **Masuda, Y.J.**, Miller, M., Oliveria, I., Revenaz, J., Roe, D., Shamer, S., Wilkie, D., Wongbusarakum, S., & Woodhouse, E. (2018). What are the effects of nature conservation on human wellbeing? A systematic map. *Environmental Evidence*, 5(8), DOI: 10.1186/s13750-016-0058-7
  29. Reddy, S.W., Montambault, J., **Masuda, Y.J.**, Fisher, J., Gneezy, A., Keenan, E., Butler, W., & Asah, S. (2016). Advancing Conservation by Understanding and Influencing Human Behavior. *Conservation Letters*, 10(2), 248-256.
  30. Scharks, T., & **Masuda, Y.J.\*** (2016). Don't discount economic valuation for conservation. *Conservation Letters*, 9(1), 3- 4.
  31. McKinnon, M.C., Cheng, S.H., Garside, R., **Masuda, Y.J.**, & Miller, D.C. (2015). Sustainability: Map the evidence. *Nature*, 528(7581), 185-188.
  32. Williams, J.R., **Masuda, Y.J.**, & Tallis, H. (2015). Time poverty: A measure whose time has come. *Social Indicators Research*. DOI: 10.1007/s11205-015-1029-z
  33. **Masuda, Y.J.**, & Scharks, T. (2014). A big leap to slavery. Letter in *Science*, 346(6211), 819.
  34. Tallis, H., ..., **Masuda, Y.J.**, et al. (2014). Towards a diverse conservation ethic. *Nature*, 515(7525), 27-28.
  35. Chaudhri, R., Borriello, G., Lieberg, K. Sodt, R., Chilton, J., **Masuda, Y.J.**, & Cook, J.H. (2012). Sensors and smartphones: Tracking water collection in rural Ethiopia. *IEEE Pervasive Computing*, 11(3), 15-24.
  36. **Masuda, Y.J.\***, Fortmann, L., Gugerty, M.K., Smith-Nilson, M., & Cook, J. (2012). Pictorial approaches for measuring time use in rural Ethiopia. *Social Indicators Research*, 115(1), 467-482.
  37. Cowell, A.J., Brown, J.M., Wedehase, B.J., & **Masuda, Y.J.** (2010). Costs of using motivational interviewing for problem drinking in the U.S. Air Force. *Military Medicine*, 175(12), 1007-1013.
  38. Luo, Z., Cowell, A.J., **Masuda, Y.J.**, Novak, S.P., & Johnson, E.O. (2010). Course of major depressive disorder and labor market outcome disruption over three to four years. *Journal of Mental Health Policy and Economics*, 13(3), 135-149.
  39. Cowell, A.J., Luo, Z., & **Masuda, Y.J.** (2009). Psychiatric disorders and the labor market: An analysis by psychiatric profiles. *Journal of Mental Health Policy and Economics*, 12(1), 3-17.

### Book chapters

40. Olander, L., Mason, S., Tallis, H., Lamb, J., **Masuda, Y.J.**, & Kramer, R. (2020). Ecosystem Services. In *Global Climate Change & Human Health: From Science to Practice*. J. Lemery, C. Sorensen, and K. Knowlton (Eds). Wiley Jossey-Bass.

- 
41. **Masuda, Y.J.\***, & Scharks, T. (2017). Science communication is receiving a lot of attention, but we are not getting much better at it In P. Kareiva, B. Silliman, & M. Marvier (Eds.), *Effective Conservation Science: Data not Dogma*. Oxford University Press.

### Technical reports

42. Fargione, J., Baumgarten, L., Cortez, R., Game, E., Grimm, D., Higgins, J., Leberer, T., **Masuda, Y.J.**, Morrison, S., Palmer, S., & Tallis, H. (2016). Conservation by Design 2.0 Guidance Document. The Nature Conservancy.
43. Holland, M.B., Dupre, S.I., Baker, J., Lawry, S., Duchelle, A.E., Kelly, A.C., **Masuda, Y.J.**, & Robinson, B.E. (2018). How does indigeneity influence socio-ecological conditions on community forested lands? A systematic review protocol. *CIFOR Working Paper*.
44. Goldstein, J.H., Tallis, H., Huikuri, S., Kelso, M., Kreis, K., Linou, N., Olander, L., Ringler, C., Small, R., Zobrist, S., Theis, S., Jacobs, C., Mason, S., & **Masuda, Y.J.** (2019). Bigger Change Faster. Bridge Collaborative and United Nations Development Program Report.
45. Zhang, W., El Didi, H., Swallow, K., Meinen-Dick, R., Ringler, C., **Masuda, Y.J.**, & Aldous, A. (2020). Community-based management of freshwater resources: A practitioners' guide to applying The Nature Conservancy's Voice, Choice, and Action Framework. The Nature Conservancy.

### WORK IN PROGRESS (near final or under review)

---

#### Journal articles

1. Roopsind, A., Leavitt, S., **Masuda, Y.J.**, Denny, V., Ellis, E.A., Ellis, P.W., Fariss, B.L., Griscom, B.W., Isai, V., Kennedy, C.M., Velásquez-Tibatá, Yeo, S. Titling of indigenous peoples and local communities results in long-term reductions in forest cover loss in a multi-country study. (revise and resubmit at *Nature Communications*)
2. Wadropper, C.B., Esman, L., Harden, S., **Masuda, Y.J.**, Ranjan, P., Weigel, C., Ferraro, P.J., Prokopy, L., Reddy, S.W. A "fail fast" approach to conservation program design. (under review at *Conservation Science & Practice*).
3. Tallis, H., Fargione, J., Game, E.T., McDonald, R., Baumgarten, L., Bhagahati, N., Benner, R., Cortez, R., Griscom, B., Higgins, J., Kennedy, C., Kiesecker, J., Kroeger, T., Leberer, L., Mandle, L., **Masuda, Y.J.**, McGowan, J., Morrison, S., Palmer, S., Shirer, R., Shyamsundar, P., Wolff, N.H., Possingham, H. Prioritizing actions: Spatial action maps for conservation. (under review at *Annals of the New York Academy of Sciences*).
4. Chang, C., Armsworth, P., & **Masuda, Y.J.** Twitter data reveal six distinct environmental personas. (under review at *Proceedings of the National Academy of Sciences of the United States of America*).
5. Parsons, L.A., Jung, J., Battisti, D.S., Kroeger, T., **Masuda, Y.J.**, Wolff, N.H., Vargas-Zeppetello, L.R., & Spector, J.T. Tropical deforestation already outpacing climate change heat impacts, limiting human ability to safely work outside. (under review at *Nature Communications*).
6. **Masuda, Y.J.\*** Agreeing to disagree? Investigating the determinants of spousal perceptions of control over the wife's decision-making power in rural Ethiopia. (revise and resubmit at *Feminist Economics*).
7. Williams, J.R., **Masuda, Y.J.**, & Tallis, H. The interdependence of time and income in creating well-being: Towards a new poverty definition. (under review at *Review of Income and Wealth*).
8. Wolff, N.H., Zeppetello, L.R., Parsons, L.A., Aggraeni, I., Battisti, D.S., Game, E.T., Kroeger, T., **Masuda, Y.J.\***, & Spector, J.T. The effect of deforestation and climate change on heat exposure, safe work hours, and mortality in Indonesia. (revise and resubmit at *Lancet Planetary Health*).
9. Castilla, C., **Masuda, Y.J.**, & Zhang, W. Spousal communication and intrahousehold allocation in Kenya. (under review at *Journal of Economic Behavior and Organization*).
10. Holland, M., Robinson, B.E., **Masuda, Y.J.**, Kelly, A.C., Childress, M., Game, E.T., Ginsburg, C., Hillhorst, T., Lawry, S., Miteva, D., Musengezi, J., Naughton, L., Sunderlin, W., & Veit, P. Tenure gap: Implications for discrepancies in informal and statutory land rights.
11. Kelly, A.C., Robinson, **Masuda, Y.J.**, B.E., Holland, M.B., Childress, M., Game, E.T., Ginsburg, C., Hillhorst, T., Lawry, S., Miteva, D., Musengezi, J., Naughton, L., Sunderlin, W., & Veit, P. The Tenure Governance Index.

- 
12. Bellemare, M.F., **Masuda, Y.J.**, Robinson, B.E., Tseng, J., Blackman, A., BenYishay, A., Moustapha, D., Huntington, H., Lisher, J., Musengezi, J., Sanjak, J., Naughton-Treves, L., Hollands, M.B., Childress, M., Veit, P., Shyamsundar, P. Lawry, S., Boucher, T., Kroeger, T., Rudel, T., & Sunderlin, W. Unifying the measurement of land tenure security is essential for tracking and evaluating progress on the Sustainable Development Goals.

### Book

13. Holland, M.B., **Masuda, Y.J.\***, & Robinson, B.E. (Editors). Land Tenure Security and Sustainable Development. Palgrave-Macmillan. (under contract). \*Equal coeditorship

## IN PREPARATION

---

### Journal articles

1. **Masuda, Y.J.\***, Waterfield, G., Kang, S., Castilla, C., & Zhang, W. Gender composition effects on public goods and extraction games.
2. Cheng, S., Bethel, A., Gill, D., Garside, R., Holland, M.B., **Masuda, Y.J.**, Miller, D.C., Wilkie, D., Wongbusarakum, S., & McKinnon, M.C. What are the effects of conservation on human well-being? An updated systematic map protocol.
3. Dawit, G., Bailis, R., Carter, E., Darby, J.W., Dickinson, K., Jain, A., **Masuda, Y.J.**, Meyer, J., Quinn, A., Baumgartner, J., & Zerrifi, H. Household transition to low polluting cooking fuels and suspension of solid fuels: Empirical evidence from India.
4. D'Evelyn, S., Haugo, R., Spector, J.T., Alvarado, E., Schollaert, C., Kasner, E.J., Smith, E., Mittelstaedt, G., Haggmann, K.R., Lydersen, J., Baumgartner, J., Jung, J., Krenz, J., Stevens, J.T., Wilkins, J.L., Metlen, K., Krawchuk, M., Marlier, M., Hessburg, P., Wolff, N.H., & **Masuda, Y.J.** Integrating human health considerations into ecological forestry.
5. Schollaert, C., Jung, J., Alvarado, E., Maxwell, C., Tessum, C.M., Smith, E., Marshall, J., Wilkins, J.L., Marlier, M., Wolff, N., Henderson, S., **Masuda, Y.J.**, & Spector, J.T. What are the tradeoffs to public health impacts between prescribed fires and wildfires? A modeling study from the Tahoe Central Sierra Initiative.
6. Mahajan, S., Tanner, L., Ahmadi, G., Becker, H., DeMello, N., Fidler, R., **Masuda, Y.J.**, Harborne, A., Jagdish, A., Masuda, Y.J., Mills, M., Painter, M., Wilkie, D., & Glew, L. Navigating the evidence problem in conservation.
7. Zhang, W., El Didi, H., Swallow, K., Meinzen-Dick, R., Ringler, C., **Masuda, Y.J.**, & Aldous, A. Community-Based Conservation of Freshwater Resources.
8. **Masuda, Y.J.\***, Waterfield, G., Kang, S., Castillo, C., & Zhang, W. Gender composition improves allocation decisions: Experimental evidence from Kenya.
9. Miller, D.C., Garside, R., Pullin, A., McKinnon, M.C., Cheng, S.H., **Masuda, Y.J.**, Bethel, A., & Wilkie, D. Unlocking evidence for environmental sustainability: A key to interpreting and using systematic maps.
10. **Masuda, Y.J.\***, Tallis, H., Musengezi, J., & Wongbusarakum, S. Human well-being impacts: Incorporating, monitoring, and evaluating human well-being in conservation programs.
11. Reddy, S.W., Norris, S., Liu, J., **Masuda, Y.J.** Opportunities and risks for conservation in the Millennial generation.
12. **Masuda, Y.J.\***, & Cook, J.H. Does improved water access increase child schooling? A quasi-experimental approach from rural Ethiopia.
13. Cook, J.H., **Masuda, Y.J.**, Fortmann, L., Smith-Nilson, M., & Gugerty, M.K. Measuring the impact of convenient water supply on household time use in rural Ethiopia.

## SERVICE AND OTHER INFORMATION

---

### Institutional

Co-lead, Diversity and Inclusion Team, Global Science Conference, The Nature Conservancy, 2019-  
Board Member, Social Science Working Group, Society of Conservation Biology, 2017-2020  
Member, Science Advisory Council, Science for Nature and People Initiative, 2015-  
Co-lead, People Team, Global Science, The Nature Conservancy, 2018-2019

Human Subjects Research Reviewer, The Nature Conservancy, 2015-2016

Member, Conservation by Design Refresh Guidance Committee, The Nature Conservancy, 2015-2016

### **Editorial**

Associate Editor, *Conservation Science & Practice*, 2018-

### **Reviewer**

#### *Grants*

Natural Environment Research Council - Ecosystem Services for Poverty Alleviation (UK), Science for Nature and People Initiative, David H. Smith Conservation Research Fellowship Program

#### *Journals*

Proceedings of the National Academy of Science of the United States of America, Society & Natural Resources, Conservation Letters, Frontiers in Ecology and the Environment, World Development, Conservation Science & Practice, Land Use Policy, Environment International, Global Ecology and Conservation, American Journal of Agricultural Economics

### **Affiliations**

Society for Conservation Biology (SCB), member

### **Languages**

Japanese (native speaking, reading, and writing), Georgian (proficient speaking, reading, and writing), Afaan Oromo (basic)

### **International work experience**

Republic of Georgia, Ethiopia, Australia, Indonesia, Tanzania, Kenya, Mexico, Colombia, Gabon, Brazil