

## Amy Whritenour Ando

Professor and Chair

Department of Agricultural, Environmental, and Development Economics (AEDE)

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**Education**      Ph.D. Economics, Massachusetts Institute of Technology, 1996  
B.A. Economics, Williams College, 1990

### **Professional experience**

2023 –            Professor and Department Chair, Dept. of AEDE  
2015 –            University Fellow, Resources for the Future, Washington, DC  
2013 –2023      Professor, Dept. of Ag. and Consumer Econ. (ACE), U. of Illinois Urbana-Champaign (UIUC)  
2019-21: Provost's Fellow; 2022-3: Special Assistant for the College of ACES for DEI  
2006              Visiting Scholar, Dept. of Agricultural and Resource Economics, Oregon State Univ.  
2005 – 2013      Associate Professor, Dept. of ACE, UIUC  
1999 – 2005      Assistant Professor, Dept. of ACE, UIUC  
1996 – 1999      Fellow, Quality of the Environment Division, Resources for the Future  
1995 – 1996      Lecturer, Department of Economics, University of Virginia

### **Honors, recognitions and outstanding achievements**

- Fellow, Association of Environmental and Resource Economics, 2023
- Professorship of Economics and Environmental Justice, College of ACES at UIUC, 2022 – 2023
- College of ACES Paul A. Funk Recognition Award, 2020
- College of ACES Senior Faculty Award for Excellence in Research, 2018
- University Scholar at UIUC, 2017-20
- College of ACES Senior Faculty Award for Excellence in Teaching, 2016
- Campus Distinguished Promotion Award at UIUC, 2013
- College of ACES Team Award for Excellence (with 8 other faculty), 2011
- National Science Foundation Graduate Fellowship, 1990 – 1994
- Graduated *summa cum laude* and with high honors from Williams College, 1990

### **Professional activities**

#### **Member of professional associations (with sample activities):**

- American Agricultural Economics Association (AAEA)
  - Elected member of Board of Directors (currently)
  - Editor, *American Journal of Agricultural Economics* (currently)
  - Quality of Research Discovery Award committee (three years)
  - Mentor and planner for AAEA early career mentoring workshop
- Association of Environmental and Resource Economists (AERE)
  - Co-organizer, AERE Plenary session at AERE Summer Conference 2022 and two-day Workshop on environmental justice research October 2022
  - Vice President, 2018-2019 (elected); spearheaded creation of Committee on Diversity, Equity and Inclusion
  - Board of Directors, AERE, 2012 – 14 (elected)
- American Economics Association (AEA)
  - Member, Committee on the Status of Minority Groups in the Economics Profession (currently)
  - Invited mentor in CeMENT-CSWEP National Workshop.

### ***Invited workshop or working group participant***

- Social Cost of Water Pollution Workshop. Cornell University, Ithaca NY. 2019.
- Science-Policy Conference on *Understanding and Addressing Climate Change Impacts on the Great Lakes*. Environmental Law and Policy Center & Northwestern University, Chicago, IL. 2019.
- Invited instructor in “Training the Trainers” Workshop hosted by Peking University and the Lincoln Land Institute. Beijing, China. 2018.
- Workshop on *Scientific Challenges to Operationalizing Payments for Agro-Ecosystem Services (PAgES)*: Indianapolis, IN, 2017
- Workshop of Rights-of-Way as Habitat Working Group, University of Illinois Chicago, 2017.
- Council on Food, Agricultural, and Resource Economics (CFARE): Project for Valuation of Ecosystem Services Available from Farms and Forests, 2016
- CFARE: Economic Valuation of Conservation Based Ecosystems Services Workshop. Washington DC, 2015
- National Socio-Environmental Synthesis Center (SESYNC) working group on valuing benefits of biodiversity. Annapolis, MD, 2012 – 15
- ARC Centre of Excellence for Environmental Decisions (CEED) Workshop on Dynamic Social, Economic, and Institutional Feedbacks and Biodiversity Conservation, Brisbane, Australia, 2012.
- EPA Workshop on the Science, Management, Economics, and Policy of Stormwater. USEPA, Washington DC, 2010
- Workshop on Green Infrastructure Valuation. Center for Neighborhood Technology, Chicago IL, 2010
- USDA Workshop on Quantifying Wildlife Benefits from the CRP. Washington DC, 2008
- Workshop to Develop a Strategy for Advancing Urban Ecology. Funded by the National Science Foundation and U.S. Geological Service, 2006

### ***Boards, elected positions, and advisory committees***

- Board on Agriculture and Natural Resources (BANR) of the National Academies of Sciences, Engineering, and Medicine, 2022 – 2025
- Board of Directors, AAEA, 2021 – 2024 (elected)
- Scientific Advisory Committee member for The Nature Conservancy in Illinois, 2020 - 2023
- Vice President, AERE, 2018-2019 (elected)
- External Advisory Board for NSF-EPSCoR project “Adapting Socio-Ecological Systems to Increased Climate Variability,” Oklahoma State. 2014 – 2016
- Secretary, Vice-President, and President of USDA-NIFA W3133 Multistate Hatch Research Group, 2013 – 16 (elected, one year each)
- Board of Directors, AERE, 2012 – 14 (elected)
- Advisory Committee to Chicago Department of Environment’s “Chicago Ecostructure Incentive Program,” 2010 – 2011
- Program Committee for the Wildlife Habitat Policy Research Program (managed by the National Council for Science and the Environment), 2008 – 2010
- Doris Duke Charitable Foundation Conservation Investment Opportunities Project Steering Committee, Spring 2008
- Doris Duke Charitable Foundation Environment Program Advisory Committee, 2008 – 10

### ***Handling editor***

- Editor, *American Journal of Agricultural Economics*, 2019 – 2023; organized 2023 Conference on Economics of Inequity in Agricultural, Food, and Environmental Systems and virtual special issue

- Co-Editor, *Resource and Energy Economics*, 2014 – 17
- Editor, *Conservation Letters*, 2012 – 15
- Editor, *Conservation Biology*, 2012 – 13
- Associate Editor, *Economics Bulletin*, 2006 – 08

#### **Editorial boards**

- Editorial Board, *Review of Environmental Economics and Policy*, 2020 –
- Editorial Board, *Land Economics*, 2010 –
- Editorial Board, *International Review of Environmental and Resource Economics*, 2013 – 21
- Editorial Board, *Landscape and Urban Planning*, 2017 – 20
- Editorial Board, *Agricultural and Resource Economics Review*, 2014 – 20
- Editorial Council, *Journal of the Association of Environmental and Resource Economics*, 2014 – 20
- Associate Editor, *American Journal of Agricultural Economics*, 2006 – 10
- Editorial Board, *Letters in Spatial and Resource Sciences*, 2007 – 09

#### **Review panels**

- Advisory Panel to NSF Human and Social Dynamics grant competition (two times)
- Advisory Panel to NSF's Coupled Natural and Human Systems and Geography and Spatial Sciences grant programs (eight times)
- Advisory Panel to six other NSF multidisciplinary grant competitions including a Small Business Innovation Research Program.
- Review Panel for Swedish Research Council (Formas), 2016.

#### **Highlighted Academic Administrative Service before Ohio State University**

##### **UIUC Campus**

- Provost Fellow to lead project to overhaul teaching evaluation system at UIUC (50% appointment) and help revise campus policy on promotion and tenure to reduce structural inequity; 2019 - 21.
- Campus Committee on Promotion and Tenure, 2016 – 19; chair 2017 – 19.
- Chair of Search Committee for Director of the School of Music 2018 – 19.
- Senate Committee on Student Discipline, 2007 – 10; 2014 – 18
- Search Committee for UIUC Dean of the Graduate College, 2014 – 15
- UIUC Faculty Advisory Committee (elected), 2008 – 10

##### **College of ACES**

- Special Assistant for the College of ACES Dean's Office for DEI (25% appointment), 2022 – 23
- ACES Executive Committee (elected), 2010 – 14, 2016 – 2018; 2020 – 22
- Search Committee for ACES Associate Dean of Research, 2016
- Chair, ACES Bylaws Revision Subcommittee, 2014 – 16, 2021 – 22
- ACES Promotion and Tenure Committee, 2015 – 16

##### **Department of ACE**

- Co-Director, Center for Economics of Sustainability (<https://ceos.illinois.edu>), 2019 – 23
- Lead organizer of annual Heartland Workshop in Environmental and Resource Economics, 2009 – 22
- Associate Head, 2013 – 16, 2018 – 19
- Director of Graduate Studies, 2013 – 16
- ACE Dept. Faculty Advisory Committee (elected), 2002–05, 2007–08, 2011–12; 2017–18; 2020–22

- Lead coordinator for seminar of Program in Environmental and Resource Economics, 2005 – 20

### ***Leadership development program participant***

- LEAD 21- leadership development program for U.S. land grant universities and partners. 2019 – 20.
- Big Ten Academic Alliance Academic Leadership Program. 2020 – 21.

### ***Journal articles***

Fischman, R. L., J. B. Ruhl, B. R. Forester, T. M. Lama, M. Kardos, G.I Aguilar Rojas, N. A. Robinson, P. D. Shirey, G. A. Lamberti, A. W. Ando, et al. 2023. "A landmark environmental law looks ahead." *Science* 382(6677): 1348-1355. <https://www.science.org/doi/10.1126/science.adn3245>.

Ando, A., T. Awokuse, J. González-Ramírez, S. Jacobson, D. Manning, N. Chan, S. Stolper, and S. Gulati. 2024. "Addressing systemic racism in environmental and resource economics." *Review of Environmental Economics and Policy*. <https://doi.org/10.1086/727693>.

Li, L. and A.W. Ando. 2023. "Early exposure to nature and willingness-to-pay for grassland restoration." *Land Economics* 99: 509-527. <https://doi.org/10.3368/le.99.4.070822-0054R>

Lang, C., J. VanCeylon, and A.W. Ando. 2023. "Distribution of capitalized benefits from land conservation." *Proceedings of the National Academy of Sciences* 120(18) (2023): e2215262120. <https://doi.org/10.1073/pnas.2215262120>.

Netusil, N.R., S.T.M. Dissanayake, L. Lavelle, A.W. Ando, and K.K. Wells. 2023. "Does presentation matter? An analysis of images and text in a choice experiment of green roofs." *Q Open* 3(1): qoad010. <https://doi.org/10.1093/qopen/qoad010>.

Albers, H.J., K. Kroetz, C. Sims, A.W. Ando, D. Finnoff, R.D. Horan, R. Liu, E. Nelson, and J. Merkle. 2023. "Using characteristics of migratory species to inform conservation policy questions." *Review of Environmental Economics and Policy* 17(1) <https://www.journals.uchicago.edu/doi/10.1086/724179>.

Chang, J.W., A.W. Ando, and M. Chen. 2023. "Valuing changes in the portfolio of service flows from climate-induced extremes on a linked food, energy, water system (C-FEWS)". *Frontiers in Environmental Science* 11: <https://doi.org/10.3389/fenvs.2023.1069483>.

Li, L. and A.W. Ando. 2022. "Bison and rural economies." *Agricultural and Resource Economics Review* 51(3): 455-472. <https://doi.org/10.1017/age.2022.13>.

Manning, D. and A.W. Ando. 2022. "Ecosystem services and agricultural land rents: The producer cost of bat population crashes." *Journal of the Association of Environmental and Resource Economists* 9(6): 1235 – 1277. <https://www.journals.uchicago.edu/doi/abs/10.1086/720303?journalCode=jaere>.

Netusil, N., L. Rabe, S. Dissanayake, and A. Ando. 2022. "Valuing the public benefits of green roofs." *Landscape and Urban Planning* 224: 104426. <https://doi.org/10.1016/j.landurbplan.2022.104426>

Ando, A.W. 2022. "Equity and cost-effectiveness in valuation and action planning to preserve biodiversity." *Environmental and Resource Economics* 83: 999 – 10145. <https://doi.org/10.1007/s10640->

[022-00674-1](#).

Bernstein, A., T. Loch-Temzelides, A. Ando, P. Daszak, M. Vale, B. Li, C. Chapman, M. Kinnaird, K. Nowak, H. Li, J. Busch, M. Castro, C. Zambrana-Torrel, L. Xiao, L. Kaufman, S. Pimm, L. Hannah, A. P. Dobson. 2022. "The costs and benefits of primary prevention of zoonotic pandemics." *Science Advances* 8(5) <https://www.science.org/doi/full/10.1126/sciadv.abl4183>.

Ando, A.S. and C. Reeser. 2022. "Homeowner willingness to pay for a pre-flood buyout agreement." *Land Economics* 98(4): 560 – 578. <http://le.uwpress.org/content/early/2022/01/20/le.98.4.052721-0056.full.pdf>.

Biondi, B., C.B. Barrett, M. Mazzocchi, A. Ando, D. Harvey, M. Mallory. 2021. "Journal submissions, review and editorial decision patterns during initial COVID-19 restrictions". *Food Policy* 105: 102167. <https://doi.org/10.1016/j.foodpol.2021.102167>.

Logan, L.H., R.S. Gupta, A.W. Ando, C. Suski, A.S. Stillwell. 2021. "Quantifying tradeoffs between electricity generation and fish populations via population habitat duration curves." *Ecological Modelling* 440: 109373. <https://doi.org/10.1016/j.ecolmodel.2020.109373>

Parthum, B. and A.W. Ando. 2020. "Overlooked benefits of nutrient reductions in the Mississippi River Basin." *Land Economics* 96(4): 589-607. doi:10.3368/wple.96.4.589. <http://le.uwpress.org/content/96/4/589.short>.

Dobson, A.P., S. Pimm, L. Hannah, L. Kaufman, J.A. Ahumada, A.W. Ando, A. Bernstein, J. Busch, P. Daszak, J. Engelmann, M. Kinnaird, B. Li, T. Loch-Temzelides, T. Lovejoy, K. Nowak, P. Roehrdanz, M.M. Vale. 2020. "Ecology and economics for pandemic prevention." *Science* 369(6502): 397-381. <https://doi.org/10.1126/science.abc3189>.

Howlader, A. and A. Ando. 2020. "Consequences of Protected Areas for Household Forest Extraction, Time Use, and Consumption: Evidence from Nepal." *Environmental and Resource Economics* 75: 769–808. <https://doi.org/10.1007/s10640-020-00407-2>

Ando, A.W., C. Londoño Cadavid, N.R. Netusil, and B. Parthum. 2020. "Willingness-to-volunteer and stability of preferences between cities: Estimating the benefits of stormwater management." *Journal of Environmental Economics and Management* 99: 102274. <https://doi.org/10.1016/j.jeem.2019.102274>.

Foelske, L., C.J. Van Riper, W. Stewart, A. Ando, P. Gobster, L. Hunt. 2019. "Assessing preferences for growth on the rural-urban fringe using a stated choice analysis." *Landscape and Urban Planning* 189: 396-407. <https://doi.org/10.1016/j.landurbplan.2019.05.016>

Ando, A.W. and N. Netusil. 2018. "Valuing the benefits of green stormwater infrastructure." *Oxford Encyclopedia of Environmental Science*. <https://doi.org/10.1093/acrefore/9780199389414.013.605>.

Ando, A.W. and C. Langpap. 2018. "The economics of species conservation." *Annual Review of Resource Economics* 10: 445-467. <https://doi.org/10.1146/annurev-resource-100517-022921>.

- Ando, A.W., J. Fraterrigo, G. Guntenspergen, A. Howlader, M. Mallory, J. Olker, and S. Stickley. 2018. "When portfolio theory can help environmental investment planning to reduce climate risk to future environmental outcomes – and when it cannot." *Conservation Letters* 11(6) <http://dx.doi.org/10.1111/conl.12596>.
- Ando, A.W., A. Howlader, and M. Mallory. 2018. "Diversifying to reduce conservation outcome uncertainty in multiple environmental objectives." *Agricultural and Resource Economics Review* 47(2): 220–238. <https://doi.org/10.1017/age.2018.7>.
- Hungate, B.A., E.B. Barbier, A.W. Ando, S.P. Marks, P.B. Reich, N. van Gestel, G.D. Tilman, J.M.H. Knops, D.U. Hooper, B.J. Butterfield, B.J. Cardinale. 2017. "The economic value of grassland species for carbon storage." *Science Advances* 3(4): e1601880. <https://doi.org/10.1126/sciadv.1601880>.
- Shah, P.S., M.L. Mallory, A.W. Ando, and G. Guntenspergen. 2017. "Fine-resolution conservation planning with limited climate-change information." *Conservation Biology* 31(2):278-289. <https://doi.org/10.1111/cobi.12793>.
- Shah, P. and A.W. Ando. 2016. "Permanent and temporary policy incentives for conservation under stochastic returns from competing land uses." *American Journal of Agricultural Economics* 98(4): 1074-1094. <https://doi.org/10.1093/ajae/aaw032>.
- Ando, A.W. and P.S. Shah. 2016. "The economics of conservation and finance: A review of the literature." *International Review of Environmental and Resource Economics* 8(3-4): 321-357. <http://dx.doi.org/10.1561/101.00000072>.
- Hamaide, B., H.J. Albers, G. Busby, A.W. Ando, and S. Polasky. 2016. "Spatially-correlated risk in nature reserve site selection." *PLOS ONE* <https://doi.org/10.1371/journal.pone.0146023>.
- Letourneau, D., A.W. Ando, A. Narwani, J. Jedlicka, and E. Barbier. 2015. "Simple-but-sound methods for estimating the value of changes in biodiversity for biological pest control in agriculture." *Ecological Economics* 120: 215-225. <https://doi.org/10.1016/j.ecolecon.2015.10.015>.
- Shah, P. and A.W. Ando. 2015. "Downside versus symmetric measures of uncertainty in natural resource portfolio design to manage climate change uncertainty." *Land Economics* 91(4): 664-687. <https://doi.org:10.3368/le.91.4.664>
- Bode, M., Tulloch, A., Mills, M., Venter, O., and Ando, A.W. 2015. "A conservation planning approach to mitigating the impacts of leakage from protected area networks." *Conservation Biology* 29(3): 765-774. <https://doi.org/10.1111/cobi.12434>
- Mallory, M.L. and A.W. Ando. 2014. "Implementing efficient conservation portfolio design." *Resource and Energy Economics* 38: 1-18. <https://doi.org/10.1016/j.reseneeco.2014.05.001>
- Dissanayake, S.T.M. and A.W. Ando. 2014. "Valuing grassland restoration: Proximity to substitutes and tradeoffs among conservation attributes." *Land Economics* 90: 237-259. <https://doi.org:10.3368/le.90.2.237>

- Lentz, A.H., A.W. Ando, and N. Brozović. 2014. "Water quality trading with lumpy investments, credit stacking, and ancillary benefits." *Journal of the American Water Resources Association* 50(1): 83-100. <https://doi.org/10.1111/jawr.12117>
- Ando, A.W. 2013. "Focus on the bigger picture: Comment" *Nature* 504: 369-370 (19 December 2013) <https://doi.org/10.1038/504369a>.
- Cadavid, C. and A.W. Ando. 2013. "Valuing preferences over stormwater management outcomes given state-dependent preferences and heterogeneous status quo." *Water Resources Research* 49(7): 4114–4125. <https://doi.org/10.1002/wrcr.20317>.
- Ando, A.W. and M.L. Mallory. 2012. "Reply to Dunkel and Weber: Probability distributions and shortfall risk measures in conservation portfolio analysis." *Proceedings of the National Academy of Sciences* 109(35): E2305. <https://doi.org/10.1073/pnas.1210404109>.
- Ando, A.W. and M. Mallory. 2012. "Optimal portfolio design to reduce climate related conservation uncertainty in the Prairie Pothole Region." *Proceedings of the National Academy of Sciences* 109(17): 6484-6489. <https://doi.org/10.1073/pnas.1114653109>.
- Albers, H.J., A.W. Ando, M. Bu, and M.G. Wing. 2012. "Protected-area fragmentation, roads, and private conservation." *Letters in Spatial and Resources Sciences* 5(3): 137-150. <https://doi.org/10.1007/s12076-012-0078-z>.
- Ando, A.W. and S. Mukherjee. 2012. "Benefits of pollution monitoring technology for greenhouse gas offset markets." *Economics Bulletin* 32(1): 122-136.
- Ando, A.W. and L. Freitas. 2011. "Consumer demand for green technology in an urban setting: The case of Chicago rain barrels." *Water Resources Research* 47 W12501 1-11. <https://doi.org/10.1029/2011WR011070>.
- Ando, A.W. and X. Chen. 2011. "Optimal contract lengths for voluntary ecosystem service provision with varied dynamic benefit functions." *Conservation Letters* 4: 207-218.
- Ando, A.W. and L. Hannah. 2011. "Lessons from finance for new land-conservation strategies given climate-change uncertainty." *Conservation Biology* 25(2): 412–414.
- Ando, A.W. and P. Shah. 2010. "Demand-side factors in optimal land conservation choice." *Resource and Energy Economics* 32(2): 203-221.
- Albers, H.J., A.W. Ando, and J.F. Shogren. 2010. "Introduction to spatial natural resource and environmental economics." *Resource and Energy Economics* 32(2): 93-97.
- Khanna, M. and A.W. Ando. 2009. "Science, economics, and the design of conservation programs in the U.S." *Journal of Environmental Planning and Management* 52(5): 575-592.
- Ando, A.W. and W. Polasub. 2009. "The political economy of policy adoption: State-level natural resource damage programs." *Journal of Regulatory Economics* 35(3): 312–330.

- Brozović, N. and A.W. Ando. 2009. "Defensive purchasing, the safety (dis)advantage of light trucks, and motor-vehicle policy effectiveness." *Transportation Research B* 43: 477-493.
- Albers, H.J., A.W. Ando, and M. Batz. 2008. "Patterns of multi-agent land conservation: Crowding in/out, agglomeration, and policy." *Resource and Energy Economics* 30(4): 492-508.
- Albers, H.J., A.W. Ando, and X. Chen. 2008. "A spatial-econometric analysis of attraction and repulsion of private conservation by public reserves." *Journal of Environmental Economics and Management* 56: 33-49.
- Khanna, M., A.W. Ando, and F. Taheripour. 2008. "Welfare effects and unintended consequences of ethanol subsidies." *Applied Economic Perspectives and Policy* 30(3): 411-421.
- Ando, A.W. 2007. "Examples and principles of state-level rural environmental initiatives." *Journal of Regional Analysis and Policy* 37(1): 15-17.
- Ando, A.W. and W. Polasub. 2006. "Envelope backs or the gold standard: Choosing damage-assessment accuracy." *Land Economics* 82(3): 424-444.
- Ando, A.W. and D.R. Harrington. 2006. "Tradable discharge permits: A student-friendly game." *Journal of Economic Education* 37(4): 187-201.
- Ando, A.W. and M. Getzner. 2006. "The roles of ownership, ecology, and economics in public wetland-conservation decisions." *Ecological Economics* 58(2): 287-303.
- Ando, A.W. and A.Y. Gosselin. 2005. "Recycling in multi-family dwellings: Does convenience matter?" *Economic Inquiry* 43(2): 426-438.
- Ando, A.W. and M. Khanna. 2004. "Natural resource damage assessment methods: Lessons in simplicity from state trustees." *Contemporary Economic Policy* 22(4): 504-519.
- Albers, H.J. and A.W. Ando. 2003. "Could state-level variation in the number of land trusts make economic sense?" *Land Economics* 79(3): 311-327.
- Ando, A.W. 2003. "Do interest groups compete? An application to endangered species." *Public Choice* 114(1-2): 137-159.
- Ando, A.W. 2001. "Economies of scope in endangered-species protection: Evidence from interest-group behavior." *Journal of Environmental Economics and Management* 4(3)1: 312-332.
- Ando, A.W. and M. Khanna. 2000. "Environmental costs and benefits of genetically modified crops: Implications for regulatory strategies." *American Behavioral Scientist* 44(3): 435-463.  
Reprinted in *Agro-Environmental Policy*. Batie, S. S. and R. Horan, eds. Burlington, VT: Ashgate Publishing.
- Harrington, W, V. McConnell, and A. Ando. 2000. "Are vehicle emission inspection programs living up to



expectations?" *Transportation Research Part D* 5(3): 153-172.

Ando, A., V. McConnell and W. Harrington. 2000. "Costs, emission reductions and vehicle repair: Evidence from Arizona." *Journal of the Air and Waste Management Association* 50: 174-185.

Shogren, J., J. Tschirhart, A. Ando, T. Anderson, S. Beissinger, D. Brookshire, G. Brown, Jr., D. Cash, D. Coursey, B. Gibbons, R. Innes, S. Meyer, and S. Polasky. 1999. "Why economics matters for endangered species protection," *Conservation Biology* 13(6): 1257-1261.

Ando, A.W. 1999. "Waiting to be protected under the Endangered Species Act: The political economy of regulatory delay." *Journal of Law and Economics* 42(1): 29-60.

Ando, A.W., W. Harrington, and V. McConnell. 1999. "Estimating full IM240 emissions from partial test results: Evidence from Arizona." *Journal of the Air and Waste Management Association* 49: 1153-1167.

Ando, A., J. Camm, S. Polasky, and A. Solow. 1998. "Species distributions, land values, and efficient conservation." *Science* 279: 2126-2128.

Reprinted in *The Economics of Biodiversity Conservation*. S. Polasky, ed. Burlington, VT: Ashgate Publishing.

### **Book chapters and reprints in books**

Ando, A.W. and K. Baylis. 2014. "Spatial environmental and resource economics," in *Handbook of Regional Science*, Manfred Fischer and Peter Nijkamp, eds., pp. 1029-1048. Springer. (Revised in 2019.)

Ando A.W. 2013. "Optimization across space." 2013. In: Shogren, J.F., (ed.) *Encyclopedia of Energy, Natural Resource, and Environmental Economics*, volume 3, pp. 60-67. Amsterdam: Elsevier.

Braden, J.B. and A.W. Ando. 2011. "Economic costs, benefits, and achievability of low-impact development based stormwater regulations," in *Economic Incentives for Stormwater Control*, Hale W. Thurston, ed., Taylor & Francis, Boca Raton, FL.

Ando, A.W. 2011. "Environmental and resource economics," in *Sustainability: A Comprehensive Introduction*. Eds. U. of I. Open Source Textbook Initiative. University of Illinois Board of Trustees. [http://cnx.org/contents/FOHv\\_Zza@43.5:HdWd2hN5@2/Foreword](http://cnx.org/contents/FOHv_Zza@43.5:HdWd2hN5@2/Foreword) .

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Ando, A.W. 2001. "The political economy of endangered-species protection," in *Endangered Species Protection in the United States: Biological Needs, Political Realities, Economic Choices* (J. Shogren and J. Tschirhart, eds.). Cambridge, Cambridge University Press: 91-105.

Shogren, J., J. Tschirhart, T. Anderson, A. W. Ando, S. Beissinger, D. Brookshire, G. Brown, Jr., D. Coursey, R. Innes, S. Meyer, and S. Polasky. 2001. "Why economics matters for endangered species protection and the ESA," in *Endangered Species Protection in the United States: Biological Needs, Political Realities, Economic Choices* (J. Shogren and J. Tschirhart, eds.). Cambridge, Cambridge University Press: 365-373.

### **Working papers**

Ando, A.W., S. Dissanayake, R. Iovanna, and K. Wells. "Public access, ecological integrity, and heterogeneous values of grassland restoration."

Ando, A.W., F. Nyanzu, B. Parthum, and C. Lang. "Who values local food, nature conservation, and farmland preservation, and how much?"

Munaretto, C. and A.W. Ando. "Valuing urban beaches: Distribution of benefits across race and income."

Ando, A.W., Baylis, K., and Pullabhotla, H. "Revealed tenure expectation in applied economics departments."

Shah, P.S., A.W. Ando, & M. Mallory. "Conservation portfolios with climate change adaptation."

### **Other papers, reports, or conference proceedings**

Ando, A.W., J. Coppess, B. Gramig, M. Liu, and N. Paulson. 2022. "The Achilles heels of carbon farming: Operational constraints on the next cash crop." CEOS Report. Available at SSRN: <https://ssrn.com/abstract=4166379> or <http://dx.doi.org/10.2139/ssrn.4166379>.

Wuebbles, D., A. Sharma, A. Ando, L. Zhao, and C. Rigsbee. 2020. "Converging on solutions to plan sustainable cities." *Eos* 101. <https://doi.org/10.1029/2020EO150149>.

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Ando, A.W. 1998. "Ecosystems, interest groups, and the Endangered Species Act." *Resources* 130:7-9.

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### **Grants and fellowships**

2023 Ando, A.W., M. Bellemare, J. McCluskey, J. Tack, and N. Wilson. "Conference on Economics of Inequity in Agricultural, Food, and Environmental Systems." USDA – NIFA. \$50,000.

2022 – 2024. Ando, A.W., M. Johnson, D. Manning, and C. Wardropper, Co-PIs. "Assessing Equity in Access of Midwestern Farmers to the US Voluntary Soil Carbon Sequestration Market." Environmental Defense Fund. \$300,000.

2021 – 21. Ando, A.W., PI. J. Cidell, S. Wang, A. Stillwell, R. Sriver, and L. Chen, Co-PIs. "RURAL: Resilient Urban-Rural Analysis for Livability." Institute for Sustainability, Energy and Environment. \$30,000.

2019 – 23. Vorosmarty, C.J., A.W. Ando, A.K. Jain, J.M. Melillo, and D.J. Wuebbles, co-PIs. "INFEWS/T1: Climate-induced extremes on the food, energy, water nexus (C-FEWS) and the role of engineered and natural infrastructure." National Science Foundation. \$2,499,998.

2020. Ando, A.W. and S. Dissanayake, co-PIs. "Estimating the values of prairie grassland habitat: A choice experiment study on preferences, charismatic megafauna, and visual information." U.S. Department of Agriculture. \$76,624.

2019. Wuebbles, D.; A. Ando, A. Sharma, and Lei Zhao, co-PIs. "A Proposed Workshop on Interdisciplinary Sustainable Solutions for Urban Systems in a Changing Climate." National Science Foundation. \$50,000.

2019 – 20. Wuebbles, D., A. Ando, E. Kocs, T. Lindsey, T. Theis, and A. Hanson, Co-PIs. "Activating the Center for Urban Resilience and Environmental Sustainability (CURES)." Discovery Partners Institute. \$15,000.

2018 – 21. C. Lang (PI), A. Ando, and Julie Keller (co-PIs). "Distributional impacts of farm and open space conservation." U.S. Department of Agriculture – National Institute of Food and Agriculture. \$500,000.

2016 – 20. M. Chu (PI), A. Ando, and J. Knouft (co-PIs). "Non-market Value of Watershed Management Enhancements: An Integration of Hydro-ecologic and Economic Assessments." U.S. Department of Agriculture – National Institute of Food and Agriculture. \$499,536.

2016 – 20. W. Stewart (PI), A. Ando, C. Van Riper, and P. Gobster (co-PIs). "Building Rural Community

- Resilience in Context of Protected Grasslands.” U.S. Department of Agriculture – National Institute of Food and Agriculture. \$500,000.
- 2015 – 16. A. Ando (PI). “Addressing Long-Term Resiliency through the National Flood Insurance Program.” Natural Resources Defense Council. \$20,000.
- 2013 – 16. A. Ando (PI), J. Fraterrigo, G. Guntenspergen, and M. Mallory (co-PIs). “Spatial Conservation and Investment Portfolios to Manage Climate-Related Risk.” National Science Foundation. \$402,539.
- 2012 – 13. C. Werth (PI), A. Ando, X. Cai, and A. Schmidt (co-PIs). “Low Impact Development in Chicago for Integrated Watershed Management Across Scales.” Illinois-Indiana Sea Grant, \$36,346.
- 2012 – 13. A. Ando and M. Mallory (co-PIs). “Economic Tools for Conservation Decision Making and Land Management under Climate Change.” U.S. Geological Service. \$34,192.
- 2012 – 13. A. Ando (PI) and C. Londoño. “Measuring Public Preferences over Stormwater Management Outcomes in Illinois: Willingness to Pay and Willingness to Help.” Illinois Water Resources Center. \$30,075.
- 2010 – 12 A. Ando (PI), N. Brozović. Subcontract to The Wetlands Initiative on “Market Feasibility Assessment of a Nutrient Trading Market in the Lower Illinois River - Lower Senachwine Watershed”. U.S. Environmental Protection Agency, \$26,600.
- 2011 – 12. A. Ando (PI) and S. Dissanayake. “Estimating the Value of Grassland Habitat Restoration: Evidence from a Choice Experiment Survey”. UIUC Campus Research Board. \$4,630.
- 2009 – 12. A. Ando (PI), K. Baylis, J. Braden, N. Brozović, and M. Khanna. “Innovations in Environmental and Resource Economics at the Heartland Workshop: A New Era at Illinois.” U.S. Environmental Protection Agency, \$146,676.
- 2009 – 12. One of four co-PIs on project with PIs B. Minsker, D. Wuebbles, P. Kumar. “Cyberenvironment for Research in Environmental Sustainability.” UIUC Institute for Advanced Computing Applications and Technologies, \$500,000.
- 2007– 2009. A. Ando, J. Braden (PI), N. Brozovic, X. Cai, and S. Gasteyer. “WATERS Infrastructure to Support Water Management and Policy. Adaptive Infrastructure Sensing and Information Systems Initiative, NCSA, UIUC, \$42,500.
- 2007– 2008: A. Ando. “Multiple-Stakeholder Pressure: Impact on Fishery Managers in the Great Lakes.” UIUC Research Board, \$11,300. 2007-8.
- 2006 – 2008. C. Speir (J. Braden, PI and A. Ando, co-PI). National Marine Fisheries Service – Sea Grant Fellowship in Marine Resource Economics, \$31,667, 2006-8.
- 2003 – 2006: A. Ando and H. Albers (co-PIs). “Private Land Conservation Decisions: The Role of Information and Public Lands” \$320,000 from NSF/EPA.

2002 – 2003: A. Ando. “The Effects of Fuel-Economy Standards: The Role of Defensive Purchases.” \$8,268 from the UIUC Campus Research Board.

2001 – 2003: A. Ando, D. Bullock (PI), and M. Khanna. “Ethanol Policy in the Presence of Other Economic Distortions: Is a Win-Win Policy Change Possible?” \$55,000, Internal Competitive Grants Program of the Illinois Council on Food and Agricultural Research.

2001 – 2002: A. Ando (PI), M. Khanna and J. Braden. “Natural Resource Damage Assessment: Case Studies and Survey of Assessment Tools.” \$70,000 from the Waste Management and Research Center of the Illinois Department of Natural Resources.

1997 – 98: A. Ando (PI), W. Harrington, and V. McConnell. “Estimating Vehicle Emissions from Fast-Pass Data,” \$20,000 from US EPA.

1990 – 94: National Science Foundation Graduate Fellowship.

### **Selected invited presentations since 2016**

July 2023. “Environmental and Resource Economics and Systemic Racism”. Australasian Agricultural and Resource Economic Society – Western Australia Environmental Policy Lecture.

April 2023. “Frontiers of research in land conservation.” World Bank Office of the Chief Economist Research Retreat. Washington, DC.

“Distribution of benefits from land conservation.”

- October 2022, Dept. of Agricultural, Environmental, and Development Economics, Ohio State
- November 2022, Toulouse School of Economics

May 2022. “Developing a research agenda on environmental justice and COVID-19 in minority communities.” Keynote talk at NSF funded “Build and Broaden: Advancing fundamental knowledge of SBE responses to pandemics in minority communities” workshop, Northern Arizona University.

“COVID experience, privilege, and the value of grassland restoration” (with Sahan Dissanayake, Rich Iovanna, and Kaylee Wells). Invited seminars:

- October 2021, Arizona State University
- December 2021, University of Wyoming

August 2021. “Critical variation in preferences for environmental goods.” Invited keynote talk, 27<sup>th</sup> Ulvön Conference on Environmental Economics (virtual), Sweden.

July 2021. “Distributional issues in environmental valuation findings and practice.” LEEPout seminar series; Land, Environment, Economics and Policy Institute; University of Exeter (virtual), UK.

“Early Exposure to Nature and WTP for Conservation.” L. Li and A. Ando. Invited seminars.

- April 2021. Dept. of Agricultural Resource and Economics, University of California Berkeley.

- December 2020. Dept. of Agricultural Economics, Sociology, and Education, Penn. State Univ.
- October 2020. Dept. of Agricultural, Food, and Resource Economics, Michigan State University.

November 2020. "Inequity and economics of environmental and food systems." Keynote presentation of AERE sessions at Southern Economics Association meetings.

November 2020. "Who do ecosystem improvements serve? Distributional issues in environmental valuation and policy." Keynote presentation at 30<sup>th</sup> Annual Canadian Environmental and Resource Economics Association Conference.

March 2020. "Biodiversity conservation under climate change: Shifting landscapes and preferences." Keynote talk at "Economics of Biodiversity Conservation under Climate Change: Programme Video Conference." Berlin, Germany.

Nov. 2019. "Estimating values of water quality: Local and distant, rural and urban." B. Parthum and A.W. Ando. Triangle Resource and Environmental Economics (TREE) seminar series, Durham, NC.

A.W. Ando, Londoño, C., N. Netusil, and B. Parthum. "Willingness-to-volunteer and stability of preferences between cities: Benefits of stormwater management." Invited seminars.

- Nov. 2018. Dept. of Agricultural Economics, Mississippi State University.
- Sept. 2018: Dept. of Economics, Sophia University, Tokyo, Japan.
- Feb. 2018: Dept. of Economics, University of Wyoming.
- Feb. 2016: Resources for the Future. Washington, DC.

Oct. 2018. A.W. Ando. "Estimating the value of well-managed water." Seminar in School of Business at Saint Louis University.

Sept. 2018: A.W. Ando. "Finance and conservation: Reducing risk and mobilizing resources." Keynote talk at the 23rd Annual Meeting of the Society for Environmental Economics and Policy Studies. Tokyo, Japan.

June 2017: A.W. Ando. "Diversifying risk in multiple environmental objectives under climate uncertainty." Keynote talk, NAREA Workshop on Climate Change and Land Conservation/Restoration, Washington D.C.

March 2017: A.W. Ando, J. Fraterrigo, G. Guntenspergen, A. Howlader, M. Mallory, J.H. Olker, and S. Stickley. "Reducing climate-related uncertainty in outcomes of investments: When does spatial conservation portfolio diversification work best?" World Bank, Washington D.C.

September 2016: A.W. Ando. Keynote speaker. "Uncertainty in and distribution of the benefits of conservation." 18th Annual Bioecon Conference, Kings College, Cambridge.

March 2016: A.W. Ando, M. Mallory and P. Shah. "Using portfolio theory to manage climate-change risk in conservation and environmental management." Okinawa Institute of Science and Technology University. Okinawa, Japan.