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APPOINTMENTS

Bowdoin College

Chair, Economics Department, 2020 – Present
Associate Professor, Department of Economics, Bowdoin College, 2017 – Present.
Assistant Professor, Department of Economics, Bowdoin College, 2010 – 2017.

Postdoctoral researcher, Natural Capital Project, Stanford University, 2007 – 2010.

EDUCATION

University of Minnesota, Minneapolis, Minnesota.

Ph.D. in Applied Economics with a concentration in Environmental Economics and a minor in Conservation Biology, 2007.

University of Minnesota, Minneapolis, Minnesota.

M.A. in Public Affairs with a concentration in Environmental Policy and Economic Development, 1998.

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Nelson, E., H. Albers, S. Newbold, K. Lee, and K. Kroetz. The Value of Information in Designing Pop-up Conservation for Seasonal Migratory Species: The Right Place at the Right Time.

Polasky, S., **E. Nelson**, D. Tilman, J. Gerber, J. A. Johnson, E. Corong, F. Isbell, J. Hill, C. Packer. Reversing the Great Degradation of Nature through Economic Development.

Nelson, E. 2020. Where do the poor live in cities? Revisiting the role of public transportation on income sorting in US urban areas. Bowdoin Economics Department Working Paper Series. 16. https://digitalcommons.bowdoin.edu/econpapers/16

PEER-REVIEWED JOURNAL ARTICLES

Marvin, D.C., B.M. Sleeter, D.R. Cameron, **E. Nelson**, and A. Plantinga. 2023. Natural climate solutions provide robust carbon mitigation capacity under future climate change scenarios. *Scientific Reports* 13, 19008. DOI: 10.1038/s41598-023-43118-6.

Mamun, S., **E. Nelson**, and Christoph Nolte. 2023. Estimating the Impact of Critical-Habitat Designation on the Values of Developed and Undeveloped Parcels. *Land Economics*. DOI: 10.3368/le.100.1.101922-0081R

Nelson, E., M. Rogers, S. Wood, J. Chung, and B. Keeler. 2023. Data-driven predictions of summertime visits to lakes across 17 US states. *Ecosphere*, 14(4): e4457. DOI: 10.1002/ecs2.4457.

Albers, H.J., K. Kroetz, C. Sims, A. Ando, D. Finnoff, R.D. Horan, R, Liu, **E. Nelson**, and J. Merkle. 2023. Where, When, What, and Which? Using Characteristics of Migratory Species to Inform Conservation Policy Questions. *Review of Environmental Economics and Environmental Policy*, 17(1): 111–131. DOI: 10.1086/724179.

Runge, C.F., J.A. Johnson, **E. Nelson**, A.D. Redish. 2023. A neuroscience-based analysis of impacts of disaster memory on economic valuation. *Journal of Neuroscience, Psychology, and Economics*, 16(1): 24–49. DOI: 10.1037/npe0000168.

Cavender-Bares, J., **E. Nelson**, J. Meireles, J. Lasky, D. Miteva, D. Nowak, W. Pearse, M. Helmus, A. Zanne, W. Fagan, C. Mihiar, N.Z. Muller, N. Kraft, and S. Polasky. 2022. The hidden value of trees: Quantifying the ecosystem services of tree lineages and their major threats across the contiguous US. *PLOS Sustainability and Transformation*, 1(4): e0000010. DOI: 10.1371/journal.pstr.0000010.

Kaminski, A., D.M. Bauer, K.P. Bell, C.S. Loftin, and **E. Nelson**. 2021. Using landscape metrics to characterize towns along an urban-rural gradient. *Landscape Ecology*, 36: 2937–2956. DOI: 10.1007/s10980-021-01287-7.

Nelson, E., J. Fitzgerald, and N.W. Tefft. 2019. The Distributional Impact of a Green Payment Policy for Organic Fruit. *PLOS ONE*, 14(2): e0211199. DOI: 10.1371/journal.pone.0211199.

Smith, W.K., **E. Nelson**, J.A. Johnson, S. Polasky, J.C. Milder, J.S. Gerber, P.C. West, S. Siebert, K. Brauman, K.M. Carlson, M. Arbuthnot, J.P. Rozza, and D.N. Pennington, 2019. Voluntary sustainability standards could significantly reduce detrimental impacts of global agriculture. *Proceedings of the National Academy of Sciences*, 116(6): 2130-2137. DOI: 10.1073/pnas.1707812116.

Nelson, E. and N. Sadowsky. 2019. Estimating the Impact of Ride-Hailing App Company Entry on Public Transportation Use in Major US Urban Areas. *The B.E. Journal of Economic Analysis & Policy*, 19(1). DOI: 10.1515/bejeap-2018-0151.

Pennington, D., B. Dalzell, **E. Nelson**, S. Polasky, D. Mulla, S. Taff, and P. Hawthorne. 2017. Cost-Effective Land Use Planning: Optimizing spatial land management to maximize social benefits. *Ecological Economics*, 139: 75–90. DOI: 10.1016/j.ecolecon.2017.04.024.

Bauer, D. M., K. P. Bell, **E. Nelson**, and A. J. K. Calhoun. 2017. Managing small natural features: A synthesis of economic issues and emergent opportunities. *Biological Conservation*, 211, Part B: Pages 80-87 (Senior authorship shared among Bauer, Bell, and Nelson). DOI: 10.1016/j.biocon.2017.01.001

Hunter, Jr., M.L., V. Acuña, D. M. Bauer, K. P. Bell, A. J. K. Calhoun, M.R. Felipe-Lucia, J. Fitzsimons, E. Gonzáalez, M. Kinnison, D. Lindenmayer, C. J. Lundquist, R. Medellin, **E. Nelson**, and P. Poschlod. 2017. Conserving small natural features with large ecological roles: a synthetic summary. *Biological Conservation*, 211, Part B: 88-95. DOI: 10.1016/j.biocon.2016.12.020.

Nelson, E., J. Withey, D. Pennington, and J.J. Lawler. 2017. Identifying the Impacts of Critical Habitat Designation on Land Cover Change. *Resource and Energy Economics*, 47: 89-125. DOI: 10.1016/j.reseneeco.2016.12.002.

Nelson, **E.**, and C. B. Congdon. 2016. Measuring the relative importance of different agricultural inputs to global and regional crop yield growth since 1975 [version 1; referees:2 hTi0 (f)-3 (e)7002 Tw (v

Marlier, M.E., R. DeFries, D. Pennington, **E. Nelson**, E.M. Ordway, J. Lewis, S.N. Koplitz, and L.J. Mickley. 2015. Future fire emissions associated with projected land use change in Sumatra. *Global Change Biology*, 21: 345-362.
DOI: 10.1111/gcb.12691

Lawler, J.J., D.J. Lewis, **E. Nelson**, A.J. Plantinga, S. Polasky, J.C. Withey, D.P. Helmers, S. Martinuzzi, D. Pennington, and V.C. Radeloff. 2014. Projected land-use change impacts on ecosystem services in the U.S. *Proceedings of the National Academy of Sciences*, 111: 7492-7497. DOI: 10.1073/pnas.1405557111.

Polasky, S., D.J. Lewis, A.J. Plantinga, and **E. Nelson**. 2014. Implementing the Optimal Provision of Ecosystem Services. *Proceedings of the National Academy of Sciences*, 111: 6248–6253.6253

Nelson, E., S. Polasky, D.J. Lewis, A.J. Plantinga, E. Lonsdorf, D. White, D. Bael, and J.J. Lawler. 2008. Efficiency of incentives to jointly increase carbon sequestration and species conservation on a landscape. *Proceedings of the National Academy of Sciences* 105 (28): 9471–9476. DOI: 10.1073/pnas.0706178105

Polasky, S., **E. Nelson**, J. Camm, B. Csuti, P. Fackler, E. Lonsdorf, D. White, J. Arthur, B. Garber-Yonts, R. Haight, J. Kagan, C. Montgomery, A. Starfield and C. Toballske. 2008. Where to put things? Spatial land management to sustain biodiversity and economic production. *Biological Conservation* 141 (6): 1505–1524. DOI: 10.1016/j.biocon.2008.03.022m–9471 (irn)-4 ( )6 (on)10

Littlefield, C., **E. Nelson**, B. J Dittbrenner, J. Withey, K. K. Arkema, and J. J. Lawler. 2019. Ecosystem-based adaptation. Ch. 23 in T.E Lovejoy and L. Hannah, eds., *Biodiversity and Climate Change: Transforming the Biosphere*. New Haven: Yale University Press. DOI: 10.2307/j.ctv8jnzw1.38

Marvin, D. C., D. R. Cameron, **E. Nelson**, A. Plantinga, J. Breck, G. Sencan, and M. Passero. 2018. Capturing Carbon in California: Economic and Climate Benefits of Land Use Interventions through 2100. A report commissioned by Next 10.

Pennington, D. N., **E. Nelson**, M. Anderson, M. Macedo, M. Coe, A. Daniels, D. Schmoll, and M. Symington. 2016. Evaluating the Role of the Amazon Protected Areas Program and Anti-Deforestation Policies for Supplying Hydropower, Avoiding Carbon Emissions, and Economic Returns in the Brazilian Amazon. Pages 63-78 in A.A. Aguirre and R. Sukumar, eds. *Tropical Conservation: Perspectives on Local and Global Priorities*. New York: Oxford University Press.

U.S. Environmental Protection Agency Clean Air Scientific Advisory Committee (CASAC). 2016. CASAC Review of the EPA's Draft Integrated Review Plan for the Secondary National Ambient Air Quality Standards for Oxides of Nitrogen and Oxides of Sulfur. EPA-CASAC-16-001. April 1, 2016

Nelson, E., J. Withey, D. Pennington, and J.J. Lawler. 2015. Identifying the Impact of Critical Habitat Designation on Land Cover Change. Resources for the Future Discussion Paper 15-27 (This paper is one in a series of retrospective analyses from RFF's Regulatory Performance Initiative).

Lewis, D.J. and **E. Nelson**. 2014. The Economics of Wildlife Conservation. Pages 163-195 in J. Wu and J. Duke, eds., *Oxford Handbook of Land Economics*. New York: Oxford University Press. (Senior authorship shared).

Pennington, D.N., M. Anderson, M. Coe, A. Daniels, M. Macedo, **E. Nelson**, and D. Schmoll. 2013. Evaluating the Role of ARPA and Anti-Deforestation Policies for Supplying Hydropower, Avoiding Carbon Emissions, and Economic Returns in the Brazilian Amazon. Report prepared for Linden Trust and Moore Foundation.

Nelson, E., N. Bhagabati, D. Ennaanay, E. Lonsdorf, D. Pennington, and M. Sharma. 2013. Modeling Terrestrial Ecosystem Services. In S. Levin, ed. *Encyclopedia of Biodiversity, 2nd Edition*. Amsterdam: Elsevier.

Nelson, E. 2013. Book Review: The Economics of Ecosystems and Biodiversity: Ecological and Economic Foundations, edited by Pushpam Kumar. *Journal of Natural Resources Policy Research*, DOI:10.1080/19390459.2013.763324.

Adamowicz, V., R. Naidoo, **E. Nelson**, S. Polasky, and J. Zhang. 2011. Nature-based tourism and recreation. In P. Kareiva, H. Tallis, T. Ricketts, G. Daily, and S. Polasky, eds., *Natural Capital. Theory and Practice of Mapping Ecosystem Services*. New York: Oxford University Press.

Nelson, E., D. R. Cameron, J. Regetz , S. Polasky , and G. Daily. 2011. Terrestrial biodiversity. In P. Kareiva, H. Tallis, T. Ricketts, G. Daily, and S. Polasky, eds., *Natural Capital. Theory and Practice of Mapping Ecosystem Services*. New York: Oxford Unixyo.001 ty(Ne) (P)8 (r)4 (d)1-7 (oJ.)3 (Ro

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PROFESSIONAL MEMBERSHIPS

Association for Environmental and Resource Economists