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CHRISTOPHER COSTELLO
University of California, Santa Barbara

DEGREES

- Ph.D. Agricultural & Resource Economics, University of California, Berkeley. 2000.
- M.S. Agricultural & Resource Economics, Oregon State University. 1996.
- B.S. Environmental Economics and Policy, University of California, Berkeley. 1994.

AREAS OF SPECIAL INTEREST

Environmental and resource economics, dynamic optimization, learning and information, decision making under uncertainty.

SELECTED JOURNAL PUBLICATIONS

- C. Costello, M. Neubert, S. Polasky, and A. Solow. Bounded uncertainty and climate change economics. *Proceedings of the National Academy of Sciences*, Forthcoming, 2010.
- C. Costello, J. Lynham, S. Gaines, and S. Lester. Economic incentives and global fisheries sustainability. *Annual Reviews of Resource Economics*, Forthcoming, 2010.
- C. Costello and D. Kaffine. Marine protected areas in spatial property rights fisheries. *Australian Journal of Agricultural and Resource Economics*, Forthcoming, 2010.
- C. Costello, A. Rassweiler, D. Siegel, G. De Leo, F. Micheli, and A. Rosenberg. The value of spatial information in MPA network design. *Proceedings of the National Academy of Sciences*, Forthcoming, 2010.
- B. McGough, A.J. Plantinga, and C. Costello. Harvesting a stochastic renewable resource under general economic conditions. *BE Journal of Economic Analysis and Policy (Contributions)*, 9:56, 2009.
- J. Blackwood, A. Hastings, and C. Costello. Cost-effective management of invasive species using linear-quadratic control. *Ecological Economics*, 2009.
- C. Costello, S.D. Gaines, and J. Lynham. Can Catch Shares Prevent Fisheries Collapse? *Science*, 321(5896):1678, 2008.
- C. Costello and S. Polasky. Optimal harvesting of stochastic, spatial resources. *Journal of Environmental Economics and Management*, 56:1–18, 2008.
- R. Deacon, C. Costello, and D. Parker. Improving efficiency by assigning harvest rights to fishery cooperatives: evidence from the chignik salmon co-op. *Arizona Law Review*, 50(2):479–509, 2008.
- C. Costello and D. Kaffine. Natural resource use with limited-tenure property rights. *Journal of Environmental Economics and Management*, 55(1):20–36, 2008.
- C. Costello and R. Deacon. The Efficiency Gains from Fully Delineating Rights in an ITQ Fishery. *Marine Resource Economics*, 22:347–361, 2007.
- C. Costello, M. Springborn, C. McAusland, and A. Solow. Unintended biological invasions: does risk vary by trading partner? *Journal of Environmental Economics and Management*, 54(3):262–276, 2007.
- C. Costello, J. Drake, and D. Lodge. Evaluating an invasive species policy: ballast water exchange in the great lakes. *Ecological Applications*, 17(3):655–662, 2007.
- C. Costello and M. Ward. Search, bioprospecting and biodiversity conservation. *Journal of Environmental Economics and Management*, 52(3):615–626, 2006.
- J. Drake, C. Costello, and D. Lodge. When did the discovery rate for invasive species in the North American Great Lakes accelerate? *Bioscience*, 55:4, 2005.

- G. Sethi (co lead), C. Costello (co lead), A. Fisher, L. Karp, and M. Hanemann. Fishery management with multiple uncertainty. *Journal of Environmental Economics and Management*, 50(2):300–318, 2005.
- J. Stranlund, C. Costello, and C. Chavez. Enforcing emissions trading when emissions permits are bankable. *Journal of Regulatory Economics*, 28(2):181–204, 2005.
- C. McAusland and C. Costello. Avoiding invasives: trade related policies for controlling unintentional exotic species introductions. *Journal of Environmental Economics and Management*, 48:954–977, 2004.
- S. Polasky, C. Costello, and C. McAusland. On trade, land use, and biodiversity. *Journal of Environmental Economics and Management*, 48:911–925, 2004.
- A. Solow and C. Costello. Estimating the rate of species introductions from the discovery record. *Ecology*, 85:1822–1825, 2004.
- C. Costello and L. Karp. Dynamic taxes and quotas with learning. *Journal of Economic Dynamics and Control*, 28:1661–1680, 2004.
- C. Costello and S. Polasky. Dynamic reserve site selection. *Resource and Energy Economics*, 26:157–174, 2004.
- C. Costello and C. McAusland. Protectionism, trade, and measures of damage from exotic species introductions. *American Journal of Agricultural Economics*, 85(4):964–975, 2003.
- A. Solow, C. Costello, and M. Ward. Testing the power law model for discrete size data. *American Naturalist*, 162(5):685–689, 2003.
- A. Moledina, J. Coggins, S. Polasky, and C. Costello. Dynamic environmental policy with strategic firms: prices versus quantities. *Journal of Environmental Economics and Management*, 45(2S):356–376, 2003.
- C. Costello and A. Solow. On the pattern of discovery of introduced species. *Proceedings of the National Academy of Sciences*, 100(6):3321–3323, 2003.
- A. Solow and C. Costello. A test for declining diversity. *Ecology*, 82(8):2370–2372, 2001.
- C. Costello, S. Polasky, and A. Solow. Renewable resource management with environmental predictions. *Canadian Journal of Economics*, 34(1):196–211, 2001.
- A. Solow, C. Costello, and A. Beet. On an early result on stability and complexity. *American Naturalist*, 154(5):587–588, 1999.
- C. Costello, R. Adams, and S. Polasky. The value of El Niño forecasts in the management of salmon: a stochastic dynamic assessment. *American Journal of Agricultural Economics*, 80:765–777, 1998.

SELECTED RECENT GRANTS

- “The economic consequences of climate change to California’s agriculture”, California Energy Commission, ’08-’09 (\$100,000), co-PI
- “The economic consequences of climate change to California’s forestlands”, California Energy Commission ’08-’09 (\$100,000), co-PI
- “Sustainable fisheries project”, Paul Allen Family Foundation, ’06-’09 (\$5,000,000), co-PI
- “Linking human socioeconomic systems with marine ecosystem function along the Pacific coast of Baja, Mexico”, National Science Foundation, ’04-’10 (\$1,650,000), co-PI
- “Developing sustainable fisheries by coupling natural and human components of biocomplexity”, National Science Foundation, ’04-’08 (\$2,000,000), co-PI
- “Flow, Fish, and Fishing”, National Science Foundation, ’03-’08 (\$2,000,000), co-PI