

Stanford

Xavier Basurto

Professor of Environmental Social Sciences and, by courtesy, of Oceans

Bio

ACADEMIC APPOINTMENTS

- Professor, Environmental Social Sciences
- Professor (By courtesy), Oceans

PROGRAM AFFILIATIONS

- Center for Latin American Studies

Teaching

COURSES

2025-26

- Human Ecology: EBS 301 (Aut)
- Study of the Commons, Commoning, and Cooperative Approaches to Self-Governance and Sustainability: EARTHSYS 195, EARTHSYS 295C, URBANST 159 (Win)
- The Quest for Sustainable Community-Based Livelihoods: EBS 236 (Win)

STANFORD ADVISEES

Arantza Caudillo Alvarez

Doctoral Dissertation Reader (AC)

Ian Harryman

Postdoctoral Faculty Sponsor

Edward Wintergalen

Doctoral Dissertation Co-Advisor (AC)

Rachel Herring, Maggie Poulos

Publications

PUBLICATIONS

- **Governance Arrangements That Fit Social-Ecological Context Are Associated With Fishery Sustainability** *FISH AND FISHERIES*
Nenadovic, M., Giron, A., Frawley, T., Munguia-vega, A., Pellowe, K. E., Ferrer, E., Gill, D., Gonzalez-mon, B., Johnson, A. F., Lindkvist, E., Micheli, F., Weaver, A. H., Aburto, et al
2026
- **Five archetypes of small-scale fisheries reveal a continuum of production strategies to guide governance and policymaking.** *Nature food*
Aguión, A., Basurto, X., Funge-Smith, S., Gorelli, G., Iversen, E., Mancha-Cisneros, M. D., Gutierrez, N. L.
2025

- **Designing gender-inclusive data systems in small-scale fisheries.** *Ambio*
Harper, S. J., Williams, M., Kleiber, D., Axelrod, M., Mangubhai, S., Torell, E., Macho, G., Fakoya, K., Gopal, N., Ojea, E., Lawless, S., Franz, N., de la Torre Castro, et al
2025
- **Governing access and agency: cooperative and non-cooperative forms influence small-scale fisher livelihood vulnerability and adaptation** *ECOLOGY AND SOCIETY*
Gladstone, F. J., Basurto, X., Frawley, T., Nadovic, M., Navarro, J., Rodriguez-Van Dyck, S., Weaver, A., Micheli, F., Torre, J., Leslie, H. M.
2025; 30 (3)
- **Illuminating the multidimensional contributions of small-scale fisheries.** *Nature*
Basurto, X., Gutierrez, N. L., Franz, N., Mancha-Cisneros, M. D., Gorelli, G., Aguión, A., Funge-Smith, S., Harper, S., Mills, D. J., Nico, G., Tilley, A., Vannuccini, S., Virdin, et al
2025
- **A global assessment of preferential access areas for small-scale fisheries** *NPJ OCEAN SUSTAINABILITY*
Basurto, X., Virdin, J., Franz, N., DeLand, S., Smith, B., Cleary, J., Vegh, T., Halpin, P.
2024; 3 (1)
- **Self-governance mediates small-scale fishing strategies, vulnerability and adaptive response** *GLOBAL ENVIRONMENTAL CHANGE-HUMAN AND POLICY DIMENSIONS*
Frawley, T. H., Gonzalez-Mon, B., Nenadovic, M., Gladstone, F., Nomura, K., Zepeda-Dominguez, J., Rodriguez-Van Dyck, S., Ferrer, E. M., Torre, J., Micheli, F., Leslie, H. M., Basurto, X.
2024; 84
- **SOCIAL SCIENCE AND SUSTAINABILITY. Engage key social concepts for sustainability.** *Science*
Hicks, C. C., Levine, A., Agrawal, A., Basurto, X., Breslow, S. J., Carothers, C., Charnley, S., Coulthard, S., Dolsak, N., Donatuto, J., Garcia-Quijano, C., Mascia, M. B., Norman, et al
2016; 352 (6281): 38-40
- **Operationalizing the social-ecological systems framework to assess sustainability** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Leslie, H. M., Basurto, X., Nenadovic, M., Sievanen, L., Cavanaugh, K. C., Jose Cota-Nieto, J., Erisman, B. E., Finkbeiner, E., Hinojosa-Arango, G., Moreno-Baez, M., Nagavarapu, S., Reddy, S. M., Sanchez-Rodriguez, et al
2015; 112 (19): 5979-5984
- **How rules shape participation in communal resource management decisions: The institutional analysis and development framework as a tool to assess inclusive decision-making** *CONSERVATION SCIENCE AND PRACTICE*
Hayes, T., Murtinho, F., Basurto, X., Grillos, T.
2025
- **Correction: Designing gender-inclusive data systems in small-scale fisheries.** *Ambio*
Harper, S. J., Williams, M., Kleiber, D., Axelrod, M., Mangubhai, S., Torell, E., Macho, G., Fakoya, K., Gopal, N., Ojea, E., Lawless, S., Franz, N., de la Torre-Castro, et al
2025
- **The vital roles of blue foods in the global food system** *GLOBAL FOOD SECURITY-AGRICULTURE POLICY ECONOMICS AND ENVIRONMENT*
Tigchelaar, M., Leape, J., Micheli, F., Allison, E. H., Basurto, X., Bennett, A., Bush, S. R., Cao, L., Cheung, W. W. L., Crona, B., DeClerck, F., Fanzo, J., Gelcich, et al
2022; 33
- **Effective climate change adaptation means supporting community autonomy** *NATURE CLIMATE CHANGE*
Pisor, A. C., Basurto, X., Douglass, K. G., Mach, K. J., Ready, E., Tylanakis, J. M., Hazel, A., Kline, M. A., Kramer, K. L., Lansing, J., Moritz, M., Smaldino, P. E., Thornton, et al
2022
- **Harnessing the diversity of small-scale actors is key to the future of aquatic food systems (vol 2, pg 733, 2021)** *NATURE FOOD*
Short, R. E., Gelcich, S., Little, D. C., Micheli, F., Allison, E. H., Basurto, X., Belton, B., Brugere, C., Bush, S. R., Cao, L., Crona, B., Cohen, P. J., Defeo, et al
2021

- **Author Correction: Harnessing the diversity of small-scale actors is key to the future of aquatic food systems.** *Nature food*
Short, R. E., Gelcich, S., Little, D. C., Micheli, F., Allison, E. H., Basurto, X., Belton, B., Brugere, C., Bush, S. R., Cao, L., Crona, B., Cohen, P. J., Defeo, et al
2021; 2 (10): 828
- **Harnessing the diversity of small-scale actors is key to the future of aquatic food systems** *NATURE FOOD*
Short, R. E., Gelcich, S., Little, D. C., Micheli, F., Allison, E. H., Basurto, X., Belton, B., Brugere, C., Bush, S. R., Cao, L., Crona, B., Cohen, P. J., Defeo, et al
2021
- **Harnessing the diversity of small-scale actors is key to the future of aquatic food systems.** *Nature food*
Short, R. E., Gelcich, S., Little, D. C., Micheli, F., Allison, E. H., Basurto, X., Belton, B., Brugere, C., Bush, S. R., Cao, L., Crona, B., Cohen, P. J., Defeo, et al
2021; 2 (9): 733-741
- **Positive Social-Ecological Feedbacks in Community-Based Conservation** *FRONTIERS IN MARINE SCIENCE*
Quintana, A. C. E., Giron-Nava, A., Urmey, S., Cramer, A. N., Dominguez-Sanchez, S., Rodriguez-Van Dyck, S., Aburto-Oropeza, O., Basurto, X., Weaver, A.
2021; 8
- **Ecology and the science of small-scale fisheries: A synthetic review of research effort for the Anthropocene** *BIOLOGICAL CONSERVATION*
Smith, H., Lozano, A., Baker, D., Blondin, H., Hamilton, J., Choi, J., Basurto, X., Silliman, B.
2021; 254
- **Spatial diversification as a mechanism to adapt to environmental changes in small-scale fisheries** *ENVIRONMENTAL SCIENCE & POLICY*
Gonzalez-Mon, B., Bodin, O., Lindkvist, E., Frawley, T. H., Giron-Nava, A., Basurto, X., Nenadovic, M., Schluter, M.
2021; 116: 246-257
- **WTO must ban harmful fisheries subsidies.** *Science (New York, N.Y.)*
Sumaila, U. R., Skerritt, D. J., Schuhbauer, A., Villasante, S., Cisneros-Montemayor, A. M., Sinan, H., Burnside, D., Abdallah, P. R., Abe, K., Addo, K. A., Adelsheim, J., Adewumi, I. J., Adeyemo, et al
2021; 374 (6567): 544
- **Evaluating the best available social science for natural resource management decision-making** *ENVIRONMENTAL SCIENCE & POLICY*
Charnley, S., Carothers, C., Satterfield, T., Levine, A., Poe, M. R., Norman, K., Donatuto, J., Breslow, S., Mascia, M. B., Levin, P. S., Basurto, X., Hicks, C. C., Garcia-Quijano, et al
2017; 73: 80-88
- **Capacity shortfalls hinder the performance of marine protected areas globally.** *Nature*
Gill, D. A., Mascia, M. B., Ahmadi, G. N., Glew, L., Lester, S. E., Barnes, M., Craigie, I., Darling, E. S., Free, C. M., Geldmann, J., Holst, S., Jensen, O. P., White, et al
2017; 543 (7647): 665-669
- **Evaluating indicators of human well-being for ecosystem-based management** *ECOSYSTEM HEALTH AND SUSTAINABILITY*
Breslow, S., Allen, M., Holstein, D., Sojka, B., Barnea, R., Basurto, X., Carothers, C., Charnley, S., Coulthard, S., Dolsak, N., Donatuto, J., Garcia-Quijano, C., Hicks, et al
2017; 3 (12)
- **Conceptualizing and operationalizing human wellbeing for ecosystem assessment and management** *ENVIRONMENTAL SCIENCE & POLICY*
Breslow, S. J., Sojka, B., Barnea, R., Basurto, X., Carothers, C., Charnley, S., Coulthard, S., Dolsak, N., Donatuto, J., Garcia-Quijano, C., Hicks, C. C., Levine, A., Mascia, et al
2016; 66: 250-259
- **Re-defining co-management to facilitate small-scale fisheries reform: An illustration from northwest Mexico** *MARINE POLICY*
Finkbeiner, E. M., Basurto, X.
2015; 51: 433-441
- **The challenges of incorporating cultural ecosystem services into environmental assessment.** *Ambio*
Satz, D., Gould, R. K., Chan, K. M., Guerry, A., Norton, B., Satterfield, T., Halpern, B. S., Levine, J., Woodside, U., Hannahs, N., Basurto, X., Klain, S.
2013; 42 (6): 675-684

- **Emerging frontiers in social-ecological systems research for sustainability of small-scale fisheries** *CURRENT OPINION IN ENVIRONMENTAL SUSTAINABILITY*
Kittinger, J. N., Finkbeiner, E. M., Ban, N. C., Broad, K., Carr, M. H., Cinner, J. E., Gelcich, S., Cornwell, M. L., Koehn, J. Z., Basurto, X., Fujita, R., Caldwell, M. R., Cowder, et al
2013; 5 (3-4): 352-357
- **Humans and Nature: How Knowing and Experiencing Nature Affect Well-Being** *ANNUAL REVIEW OF ENVIRONMENT AND RESOURCES, VOL 38*
Russell, R., Guerry, A. D., Balvanera, P., Gould, R. K., Basurto, X., Chan, K. M., Klain, S., Levine, J., Tam, J.
2013; 38: 473-502
- **Where are Cultural and Social in Ecosystem Services? A Framework for Constructive Engagement** *BIOSCIENCE*
Chan, K. M., Guerry, A. D., Balvanera, P., Klain, S., Satterfield, T., Basurto, X., Bostrom, A., Chuenpagdee, R., Gould, R., Halpern, B. S., Hannahs, N., Levine, J., Norton, et al
2012; 62 (8): 744-756