Stanford



Rosamond Naylor

William Wrigley Professor, Professor of Environmental Social Sciences, Senior Fellow at the Woods Institute, and at the Freeman Spogli Institute, Emerita

NIH Biosketch available Online Curriculum Vitae available Online

Bio

BIO

Rosamond (Roz) Naylor is the William Wrigley Professor, Emerita, of Global Environmental Policy in the Doerr School of Sustainability; and founding Director of the Center on Food Security and the Environment (FSE) at Stanford University. Her research focuses on policies and practices to improve global food security and protect the environment on land and at sea. She has been involved in numerous field-level research projects around the world with her students and has published widely on issues related to global food systems, food policy, and aquaculture. She is the co-chair of The Blue Food Assessment, an international initiative aimed at providing a comprehensive scientific evaluation of the sustainability, nutrition, equity, and justice dimensions of aquatic foods cultured and captured in freshwater and marine environments within the global food system. She is a Member of the National Academy of Sciences, a Fellow of the American Association for the Advancement of Science (AAAS), Fellow of the Ecological Society of America (ESA), a Pew Marine Fellow, and a Leopold Leadership Fellow. She is also the Chair of the Board of Directors for the Aspen Global Change Institute and a member of the Scientific Advisory Committee for Oceana. At Stanford, she teaches courses on The World Food Economy, Human Society and Environmental Change, and Food and Security.

ACADEMIC APPOINTMENTS

- Professor Emeritus, Environmental Social Sciences
- Professor Emeritus, Freeman Spogli Institute for International Studies
- Professor Emeritus, Stanford Woods Institute for the Environment
- Faculty Affiliate, Institute for Human-Centered Artificial Intelligence (HAI)
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- William Wrigley Professor, Emerita, Stanford Doerr School of Sustainability, (2025- present)
- William Wrigley Professor, Stanford Doerr School of Sustainability, (2023-2025)
- William Wrigley Professor, School of Earth Sciences, (2014-2025)
- Professor, Environmental Earth Systems Science, Stanford University, (2009- present)
- William Wrigley Senior Fellow, Freeman Spogli Institute for International Studies & Stanford Woods Institute for the Environment, (2007-2014)
- Director, Center in Food Security and the Environment, Stanford University, (2005-2018)
- Associate Professor by courtesy, Department of Economics, Stanford University, (2000- present)
- Julie Wrigley Senior Fellow, Center for Environmental Science and Policy, Stanford University, (2000-2007)
- Director of Studies, Goldman Interschool Honors Program in Environmental Science, Technology, and Policy, Stanford, (1992- present)

HONORS AND AWARDS

- AAAS Fellow, American Association for the Advancement of Science (2022)
- McNamara Post-doc Fellowship, The World Bank (1990 - 1991)
- ESA Fellow, Ecological Society of America (2019)
- Pew Fellow in Environment and Conservation, . (1994)
- Aldo Leopold Leadership Fellow, . (1999 - Present)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Undergraduate Advisor, Human Biology Program, Stanford University (1996 - present)
- Undergraduate Advisor, International Relations Program, Stanford University (1996 - present)
- Member, Oversight Committee for the Collaborative Crop Improvement Program, McKnight Foundation (1998 - 2009)
- Member, NRC Committee on “Alaska Yukan Salmon: Research and Restoration Priorities”. National Academy of Sciences (2003 - 2005)
- Co-Chair, Environmental Ventures Program, Woods Institute of the Environment, Stanford University (2004 - 2006)
- Editorial Board, Annual Review of Environment and Resources (2004 - 2008)
- Member, Scientific Advisory Board, COMPASS (Communication Partnership for Science and the Sea) (2005 - 2009)
- Member, Selection Committee, Aldo Leopold Leadership Program (2005 - 2009)
- Judge, Risser Environmental Journalism Prize for the American West (2006 - 2006)
- Environmental Ventures Program, Woods Institute of the Environment, Stanford University (2006 - 2009)
- Member, Faculty Steering Committee, International Policy Studies Program, Stanford University (2006 - present)
- Member of the Advisory Board, Pew Fellows Program in Marine Science (2007 - 2010)
- Editorial Board, Reviews in Aquaculture (2007 - 2011)
- Editorial Board, Environmental Research Letters (2007 - 2011)
- Member of the Steering Committee, Freeman Spogli Institute for International Studies, Stanford University (2008 - present)
- Member, Advisory Committee, E-IPER, Stanford University (2008 - present)
- Member, Executive Committee, Earth Systems Science Program, Stanford University (2008 - present)
- Editorial Board, Aquaculture Environment Interactions (2009 - present)
- Member, Faculty Advisory Council, The Bill Lane Center for the American West, Stanford University (2009 - present)
- Member, U.S. National Committee for the Pacific Science Association, National Academy of Sciences (2010 - 2011)
- Member, Oversight Committee, International Relations Program, Stanford University (2010 - present)
- Member, Advisory Board, Aspen Global Change Institute (2011 - 2015)
- Member, Advisory Panel for the African Human Development Report at UNDP (United Nations Development Program) (2011 - present)
- Member, Scientific Board of the Beijer Institute, Stockholm (2011 - present)
- Member, Search Committee for Director of Freeman Spogli Institute, Stanford University (2012 - 2013)
- Member, Scientific Advisory Board, Aldo Leopold Leadership Program (2012 - 2017)
- Associate Editor, Journal on Food Security (2012 - present)
- Editorial Board, Global Food Security (2012 - present)
- Trustee, The Nature Conservancy, California Chapter (2012 - present)
- Science Advisor, United Nations' Secretary General Ban Ki-Moon initiative on Sustainable Development (2013 - present)
- Member, Scientific Advisory Board, Institute for Food and Agricultural Literacy (IFAL), University of California-Davis World Food Center (2015 - present)

- Member, Board of Directors, Aspen Global Change Institute (2016 - 2019)
- Member, Selection committee for Asian nominations, Pew Marine Fellows Program, Pew Charitable Trusts (2016 - present)
- Fellow, Beijer Institute for Ecological Economics, Stockholm (2017 - present)
- Member, Scientific Advisory Board, Oceana (2018 - present)
- Co-Chair, Blue Food Assessment (Stanford University, Stockholm Resilience Center) (2019 - present)
- Contributing Author, High Level Panel for a Sustainable Ocean Economy, Blue Paper 1: The Future of Food from the Sea (2019 - present)
- Member, Forest Protection Advisory Council, Cargil (2019 - present)
- President, Board of Directors, Aspen Global Change Institute (2020 - present)
- Fellow, American Association for the Advancement of Science (AAAS) (2022 - 2023)

PROGRAM AFFILIATIONS

- Center for East Asian Studies
- Center for Latin American Studies
- Program in International Relations

PROFESSIONAL EDUCATION

- PhD, Food Research Institute, Stanford University , Applied Economics (1989)
- MSc, London School of Economics , Economics (1981)
- MA, University of Colorado Boulder , Economics and Environmental Conservation (1980)

LINKS

- Center on Food Security and the Environment: http://fse.fsi.stanford.edu/
- Freeman Spogli Institute for International Studies: http://fsi.stanford.edu/people/rosamondlnaylor/
- Stanford Woods Institute for the Environment: https://woods.stanford.edu/about/woods-faculty/rosamond-naylor
- Stanford Doerr School of Sustainability: https://sustainability.stanford.edu/people/rosamond-naylor

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Research Activities:

My research focuses on the environmental and equity dimensions of intensive food production systems, and the food security dimensions of low-input systems. I have been involved in a number of field-level research projects around the world and have published widely on issues related to climate impacts on agriculture, distributed irrigation systems for diversified cropping, nutrient use and loss in agriculture, biotechnology, aquaculture and livestock production, biofuels development, food price volatility, and food policy analysis.

Teaching Activities:

I teach courses on the world food economy, food and security, aquaculture science and policy, human society and environmental change, and food-water-health linkages. These courses are offered to graduate and undergraduate students through the departments of Earth System Science, Economics, History, and International Relations.

Professional Activities:

William Wrigley Professor of Earth Science (2015 - Present); Professor in Earth System Science (2009-present); Director, Stanford Center on Food Security and the Environment (2005-2018); Associate Professor of Economics by courtesy (2000-present); William Wrigley Senior Fellow, Freeman Spogli Institute for International Studies and the Woods Institute for the Environment (2007-2015); Trustee, The Nature Conservancy CA program (2012-present); Member of the Scientific Advisory Board for the Beijer Institute for Ecological Economics in Stockholm (2011-present), for the Aspen Global Change Institute (2011-present), and for the Aldo Leopold Leadership Program (2012-present); Aldo Leopold Leadership Fellow in Environmental Science and Public Policy (1999); Pew Fellow in Conservation and the Environment (1994). Associate Editor for the Journal on Food Security (2012-present). Editorial board member for Aquaculture-Environment Interactions (2009-present) and Global Food Security (2012-present).

PROJECTS

- Solar Market Gardens as a Tool for Rural Development - Stanford University (7/1/2010 - present)
- Rural Health & Development at the Food-Water Nexus - Stanford University (July 1, 2011 - present)
- Aquaculture in China and its Role in Global Markets and Resources - Stanford University (9/1/2012 - August 31, 2014)
- Globalization, Trade, and the Environment: The case of Brazil - Stanford University
- Lead Contaminated Topsoil and Food in Rural Bangladesh - Stanford University (July 1, 2013 - present)
- Climate Variability and Global Food Security - Stanford University (September 1, 2013 - present)
- The Importance of Marine Fisheries and Ecosystems for Food In China - Stanford University (September 1, 2013 - present)

Teaching

COURSES

2025-26

- Culture, Climate, and Food Security in the Alaskan Arctic: EARTHSYS 17SC, GEP 17SC (Sum)
- World Food Economy: EARTHSYS 106, EARTHSYS 206, ECON 106, ECON 206, ESS 106, ESS 206, GEP 106, GEP 206 (Win)

2024-25

- Food and security: ESS 61Q, INTNLREL 61Q (Aut)
- Human Society and Environmental Change: EARTHSYS 112, EARTHSYS 212, ESS 112, HISTORY 103D (Aut)

2023-24

- World Food Economy: EARTHSYS 106, EARTHSYS 206, ECON 106, ECON 206, ESS 106, ESS 206 (Spr)

STANFORD ADVISEES

Doctoral Dissertation Co-Advisor (AC)

Safari Fang