



Averyt, Kristen B. 2004. Strontium and Calcium in Marine Barite: Implications for Barite Formation and Seawater Chemistry. Stanford University (USA), 180 pp

Currently: Intergovernmental Panel on Climate Change

Now that the world has largely accepted that climate is changing, next we need to figure out how to deal with it. My own interests are evolving similarly. Although my lab-based research involves aqueous chemistry and paleoclimatology, I have become engaged in climate related public policy and communication of scientific information to policymakers, the public and the media.



Baskett, Marissa L. 2006. Marine Reserve Design and Life History Variation. Princeton University (USA), 208 pp

Currently: University of California at Santa Barbara

My research interests connect theoretical evolutionary ecology and conservation biology: with models, I investigate anthropogenically related rapid evolutionary and community changes. Currently I am exploring the dynamics of coral reef bleaching and the potential for response to climate change through community shifts and genetic adaptation in corals and their symbiotic algae.



Boykoff, Maxwell T. 2006. United States Media Representational Practices and Anthropogenic Climate Change: Investigations at the Interface of Science and Policy. University of California at Santa Cruz (USA), 279 pp

Currently: University of Oxford

My work addresses how various non-state actors influence environmental science, policy and practice. I've examined media coverage of climate change, the role of celebrity endeavors in climate-related issues, how certain discourses influence policy considerations, and links to ethics, environmental justice movements, civil society and public understanding.



Bradley, Bethany A. 2006. A Regional Analysis of Drivers and Impacts of Land Cover Change and Long-term Land Cover Trends in the Great Basin, U.S.. Brown University (USA), 219 pp

Currently: Princeton University

As a land cover scientist specializing in remote sensing, I am interested in how terrestrial ecosystems respond to both natural changes (e.g., weather fluctuations) and to anthropogenically driven changes, particularly land use and global climate change.



Cable, Jessica M. 2006. Precipitation Effects on Soil Carbon Cycling in the Sonoran Desert. University of Arizona (USA), 200 pp

Currently: University of Wyoming

My research focuses on how climate change impacts on ecosystem water availability will affect carbon and water cycling in arctic and alpine ecosystems and affect potential feedbacks to climate. I use stable isotopes and plant physiological measurements to understand plant water-use across gradients of water availability.



Codjoe, Samuel. 2004. Population and Land Use/Cover Dynamics in the Volta River Basin of Ghana, 1960-2010. University of Bonn (Germany), 184 pp

Currently: University of Ghana

I work with small-scale farmers in Ghana, on understanding their opportunities and constraints in Climate Change mitigation and adaptation. My ultimate career goal is to use an interdisciplinary and collaborative approach, to develop an effective framework for managing African resources, in a way that promotes sustainable livelihoods on the continent.



Cohan, Daniel S. 2004. Photochemical Formation and Cost-efficient Abatement of Ozone: High-order Sensitivity Analysis. Georgia Institute of Technology (USA), 234 pp.

Currently: Rice University

I specialize in atmospheric modeling and its application to air quality management and energy policy. I have implemented a high-order sensitivity analysis method into a photochemical model and developed techniques for its application to control strategy optimization and uncertainty assessments.



Crane, Todd A. 2006. Changing Times and Changing Ways: Local Knowledge, Political Ecology and Development in the Niger River Inland Delta of Central Mali. University of Georgia (USA), 239 pp

Currently: University of Georgia

My research focuses on cultural adaptations to climate change and variability. I am particularly interested in building connections between local knowledge systems and scientific research in the sphere of natural resource management, especially agriculture. In November I move to Wageningen University, Netherlands to take an Assistant Professor position in the Technology and Agrarian Development Chair Group.



Franklin, Evan T. 2006. Sliver Solar Cells and Concentrator Sliver cells. Australian National University (Australia), 352 pp

Currently: Australian National University

My main areas of research interest / expertise include the design, modelling, fabrication and characterisation of solar cells, with particular emphasis on high efficiency silicon cells and novel solar cells. My other areas of interest include solar concentrator systems, solar thermal systems, renewable energy technologies and renewable energy public policy.



Ignace, Danielle D. 2006. Functional Responses of Sonoran Desert Plant Species to Precipitation. University of Arizona (USA), 216 pp

Currently: University of Arizona

My research focuses on understanding the impacts of invasive plant species and climate change on an arid ecosystem of the Southwestern U.S. I apply a plant physiological ecology, community ecology, and ecosystem ecology framework to understanding species interactions and shifts in annual plant community composition.



Johnson, Mark S. 2005. Linkages Between Hydrology and Biogeochemistry on Amazonian Pastures and Forested Headwater Catchments. Cornell University (USA), 156 pp.

Currently: University of British Columbia

I work in headwater and meso-scale watersheds investigating terrestrial-aquatic interactions in tropical, temperate and boreal settings on processes that may be impacted by climate change. My research centers on the hydrologic controls of biogeochemical processes related to carbon dynamics, and human impacts on the ecohydrologic functioning of watersheds.



Keller, Jason K. 2005. Controls of Microbial Carbon Cycling in Northern Peatlands. University of Notre Dame (USA), 250 pp

Currently: Smithsonian Institution

I am interested in understanding how ecosystems respond to global change. My current research focuses on wetland ecosystems, ranging from northern peatlands to tidal wetlands associated with the Chesapeake Bay. In particular, I explore the controls of microbial production of CO₂ and CH₄ (two important greenhouse gases) in wetland soils.



Kohler, Pia M. 2006. Towards a Global Consensus on Matters of Science: How Process and Membership Can Generate Valid and Sustainable Science Advice in Multilateral Environmental Treaty Negotiations. Massachusetts Institute of Technology (USA), 177 pp

Currently: University of Alaska Fairbanks

The incorporation of science advice into global environmental policy making, especially as relating to climate change, ozone layer depletion, biodiversity conservation and chemicals regulation. The role of traditional and local knowledge in the provision of science advice and in environmental policy making at the local and global level.



Krakauer, Nir 2006. Characterizing Carbon-Dioxide Fluxes From Oceans and Terrestrial Ecosystems. California Institute of Technology (USA), 173 pp.

Currently: University of California, Berkeley

My research interests include: Contemporary biogeochemistry and carbon cycling; monitoring the uptake of carbon by oceans and by land vegetation; carbon-climate-freshwater interaction; multiscale data assimilation for describing carbon-cycle processes.



LaDeau, Shannon L. 2005. The Reproductive Ecology of *Pinus taeda* Growing in Elevated CO₂. Duke University (USA), 152 pp

Currently: National Zoological Park/ Ohio State University

My research focuses on evaluating how ecological communities respond to global change challenges, including climate, habitat loss, and invasive species. Current projects include investigation of spatio-temporal drivers of West Nile amplification in avian host communities and patterns of resource allocation in forest trees grown in future atmospheric CO₂.



Magi, Brian I. 2006. Optical Properties and Radiative Forcing of Southern African Biomass Burning Aerosol. University of Washington (USA), 180 pp

Currently: Princeton University

I am studying the impact that fires ignited by humans have on climate. The fact that carbon emissions from fires in the Southern Hemisphere dwarf those from fossil fuel combustion in the United States dictates a need to better understand current and past fire emissions.



Nelson, David M. 2005. Influence of Aridity and Fire on Holocene Vegetational Patterns in the Tallgrass Prairie Peninsula.
University of Illinois (USA), 94 pp.

Currently: University of Illinois/Harvard University

I study the influence of environmental change on ecosystem structure and function. I am currently examining the factor(s) driving variations in the abundance of C3 and C4 grasses in paleorecords, and am also investigating the influence of climatic change on microbe-mediated processes in soils.



Nilsen, Elena B. 2004. Studies of Carbon Cycling, Nutrient Dynamics and Climate Change in Pelagic and Coastal Ecosystems Using Sediment Geochemical Techniques.
University of California at Santa Cruz (USA), 155 pp

Currently: US Geological Survey

My research goals are to understand impacts of climate change and other human-induced factors on the health and function of coastal ecosystems. Current projects include investigating the influence of climate phenomena on primary productivity in the California Current and impacts of emerging contaminants on microbial and fish populations in estuaries.



Pagano, Thomas C. 2004. The Role of Climate Variability in Operational Water Supply Forecasting for the Western United States.
University of Arizona (USA), 283 pp

Currently: NRCS-USDA

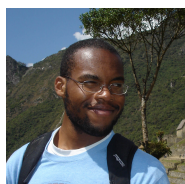
My graduate research was on the real-world use of seasonal climate information to improve snow-melt forecasting and water management. I also have a background in statistical analysis of time series data, effective communication of uncertain information, and the operational management of technological innovation.



Pohlman, John W. 2006. Sediment Biogeochemistry of Northern Cascadia Margin Shallow Gas Hydrate Systems.
College of William and Mary (USA), 239 pp

Currently: USGS, Gas Hydrate Research Group

I am interested in the biogeochemical cycling of methane associated with marine gas hydrate systems. I utilize stable and radiocarbon isotopes from dissolved and solid phase pools as well as microbial biomarkers to constrain pathways that produce and consume methane. My objective is to understand the role of gas hydrate as a component of the global carbon cycle.



Rivers, Louie. 2006. Risk Perception and Decision-making in Minority and Marginalized Communities.
Ohio State University (USA), 183 pp

Currently: National Science Foundation

I am interested in the examination of risk perceptions and decision-making processes in minority and marginalized communities, particularly in regards to the natural environment.



Saldaña-Zorrilla, Sergio O. 2006. Economic Vulnerability in Mexico: Natural Disasters, Foreign Trade and Agriculture.
Vienna University of Economics and Business Administration (Austria), 190 pp

Currently: Universidad Nacional Autónoma de México (UNAM)

My research focuses on economic analysis of natural disasters within the framework of climate change. Current projects include evaluating adaptation measures for reducing vulnerability to climate extremes in Latin-America, such as mitigation works, insurance, and contingent fund.



Salzmann, Nadine D. 2006. The Use of Results from Regional Climate Models for Local-Scale Permafrost Modelling in Complex High-Mountain Topography - Possibilities, Limitations and Challenges for the Future. University of Zurich (Switzerland), 169 pp

Currently: National Center for Atmospheric Research (NCAR)

My interests are Mountain cryosphere and complex topography; Regional Climate Model; Impact of climate change on water resources from mountain cryosphere; Contribution of mountain cryosphere to hydrologic runoff; Natural hazards; Adaptation and mitigation; Modeling & measuring; Coupling mountain cryosphere models with climate models.



Shanahan, Timothy M. 2006. West African Monsoon Variability from a High-Resolution Paleolimnological Record (Lake Bosumtwi, Ghana). University of Arizona (USA), 382 pp

Currently: Woods Hole Oceanographic Institution

My research interests involve developing, testing and applying new geochemical, biogeochemical and isotopic approaches to the geological record for reconstructing past environmental changes. Currently, I am focused on the use of organic molecules preserved in sediments as source-specific biological markers to identify past biological and climate changes and interactions.



Suttle, Kenwyn B. 2005. Spider Interactions with Arthropod Prey and Their Consequences in Temperate and Tropical Communities. University of California at Berkeley (USA), 129 pp

Currently: University of California, Berkeley

I am a community ecologist interested in ecosystem responses to changing climate, loss of predator species, and habitat degradation. My research gives particular focus to how direct impacts on individual species propagate via changing species interactions into indirect effects throughout above- and below-ground communities.



Tarui, Nori 2004. Essays on Common-Property Resource Management and Environmental Regulation. University of Minnesota-Twin Cities (USA), 135 pp

Currently: University of Hawaii-Manoa

My current research interests include how to improve on Kyoto Protocol to support cooperation among countries for climate change mitigation, and how alternative pollution-control policies influence regulated companies' incentive for clean technology innovation. My research tools are microeconomics, game theory, and numerical simulations.



Teh, Yit Arn 2005. Methane Cycling in Humid Tropical Forests: Stable Isotope Geochemistry and Effects of Oxygen Dynamics. University of California at Berkeley (USA), 169 pp

Currently: University of California at Berkeley

I'm investigating the role of soil microorganisms in regulating biogenic trace gas exchange between the terrestrial biosphere and atmosphere. Application of natural abundance and enriched stable isotope tracers to gain insights into biogeochemical cycling. Exploring the impacts of hydrology and land management practices on soil carbon cycling and greenhouse gas fluxes.



Townsend-Small, Amy 2006. Carbon and Nitrogen Cycling in the Peruvian Andean Amazon.

University of Texas at Austin (USA), 200 pp

Currently: University of California, Irvine

My main research interest is in using stable and radioactive isotopes to track changes in global biogeochemical cycles of carbon and nitrogen. I have applied these concepts to a wide variety of systems impacted by land use change, eutrophication, increases in greenhouse gas concentrations, and climate change.

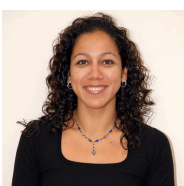


Turnbull, Jocelyn C. 2006. Development of a High Precision $^{14}\text{CO}_2$ Measurement Capability and Application to Carbon Cycle Dynamics.

University of Colorado at Boulder (USA), 139 pp

Currently: Laboratoire des Sciences du CLimat et de l'Environnement (LSCE)

My research focus is on the radiocarbon content of atmospheric carbon dioxide (CO_2), which is primarily a proxy for fossil fuel CO_2 emissions. Applications include quantifying fossil fuel CO_2 emissions, and validation of atmospheric transport models.



Urrego, Dunia H. 2006. Long-term Vegetation and Climate Change in Western Amazonia.

Florida Institute of Technology (USA), 278 pp

Currently: Florida Institute of Technology

My research focuses on climate and environmental changes at a global scale, and particularly in tropical forests of South America. My areas of expertise are terrestrial Paleocology and tropical Palynology. My paleoecological research has concentrated in the Late Pleistocene and Holocene periods while I am a specialist on pollen floras of montane and lowland tropical forests.



Webster, Diana G. 2005. The Fortunes of Fishes and Fishers: The Political Economy of Innovation in Atlantic Resource Management.

University of Southern California (USA), 415 pp

Currently: University of Southern California

My focus is on modeling complex feedbacks between social and natural systems to determine the feasibility of institutional solutions to environmental problems. I'm particularly interested in exploring the macro-level implications of observed decision-processes such as satisficing and loss aversion.



Westley, Marian B. 2006. Isotopomer Studies of Nitrous Oxide in Low Oxygen Marine Environments.

University of Hawaii (USA), 174 pp

Currently: National Oceanic and Atmospheric Administration (NOAA)

My dissertation was a ship- and laboratory-based study of the biogeochemistry of nitrous oxide in the ocean. My current research interests are trace gas cycles in the ocean component of global climate models and the policy implications of using the ocean to sequester anthropogenic carbon dioxide.



Wilson, Elizabeth J. 2004. Managing the Risks of Geologic Carbon Sequestration: A Regulatory and Legal Analysis.

Carnegie Mellon University (USA), 162 pp

Currently: University of Minnesota

I examine how institutional, regulatory, and legal barriers affect progress towards a carbon managed energy system. I seek to integrate scientific and technical knowledge within larger policy framework. Carbon capture and sequestration, energy efficiency, and understanding how organizational policy impacts energy use are my current research topics.



Wilson, Robyn S. 2006. What Motivates Choice? Behavioral Decision Theory for Environmental Policy and Management. Ohio State University at Columbus (USA), 127 pp

Currently: Ohio State University

My research interests lie in the fields of environmental risk communication and decision making. Specifically, I am interested in what motivates people's choices when faced with multi-objective, risk based decisions and how we can better structure that decision process to encourage more thoughtful policy and management decisions.



Zaitchik, Benjamin F. 2006. Local Drivers of Aridity in the Middle East and Beyond. Yale University (USA), 254 pp.

Currently: NASA Goddard Space Flight Center / University of Maryland

My research is directed at understanding, managing, and coping with climate variability. Understanding requires examination of the natural processes that drive climate. Managing involves the study of anthropogenically-induced variability. Coping includes improved forecast systems and methods of risk assessment. My primary research tools are observational analysis and numerical modeling.



Zerriffi, Hisham 2004. Electric Power Systems Under Stress: An Evaluation of Centralized Versus Distributed System Architectures. Carnegie Mellon University (USA), 280 pp

Currently: University of British Columbia

My research is at the intersection of technology, institutions and policy and focuses on energy, environment and development. Recent research has been on business models for distributed rural electrification, assessing the effectiveness of international lending for rural renewables, and the linkages between energy, socio-ecological systems and human welfare.
