

Peter D. Linquiti

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EDUCATION

Ph.D., Public Policy & Public Administration

George Washington University, 2012, *Pi Alpha Alpha*

Dissertation: Application of Finance Theory and Real Option Techniques to Public Sector Investments Made Under Uncertainty – Research & Development and Climate Change

Master of Public Policy, Regents Fellow

Goldman School of Public Policy, University of California at Berkeley, 1983

Bachelor of Arts, Political Science with High Honors and Distinction in General Scholarship, University of California at Berkeley, 1980, *Phi Beta Kappa*

EXPERIENCE

George Washington University Washington, DC

Associate Professor & Director of Environmental Resource Policy (ENRP) Program: Manage daily operations of an interdisciplinary environmental MA program, as well as a donor-funded certificate program for National Park Service employees. Teach sustainability and environmental policy courses for both graduate and undergraduate students, a policy analysis methods course for MPA students, and the capstone course for ENRP students. Current research activities include developing and validating an interdisciplinary framework for environmental policy analysis, assessing alternative methods for valuing government investments in research and development of new energy technologies, and measuring the value of flexibility in investments to adapt to climate change. Serve on Executive Committee of the Trachtenberg School of Public Policy & Public Administration. (2013-Present)

Visiting/Adjunct Professor: Taught environmental policy and policy analysis methods courses for ten consecutive semesters. (2010-2013)

Teaching Assistant: Supported MPA & MPP students in three economics courses. (2008-2010)

Peer Reviewer: National Science Foundation (multi-day panel), Science and Public Policy, Risk Analysis, Technovation, Journal of Real Options, Climate Policy, Ecological Economics.

Arbroath Associates, LLC Arlington, VA

President: Consultant specializing in environmental and science & technology policy. Areas of emphasis include mitigation of and adaptation to climate change, for clients such as the World Bank and the Defense Department. Advise government contractors on business processes and proposal and grant writing. (2006-Present)

**ICF International
Washington, DC & Fairfax, VA**

Executive Vice President for Business Development: Managed team pursuing large Federal contract and grant opportunities. Re-engineered business processes for business development, designed performance metrics and web-based tool to manage new business opportunities. One of four executives who managed firm of 600 staff, with revenue of \$177 million. (2003-2006)

Executive Vice President for Environment, Transportation, and Emergency Management: Led group of 200 professionals working on environmental issues including air quality, climate change, hazardous and solid waste, hazardous materials, drinking water, risk assessment, toxicology, and economics and finance. Recruited and had final hiring authority for multiple mid- and senior-level environmental professionals. Personal areas of emphasis included:

- Three-year ADB-funded Cleaner Production project in Thailand
- FEMA's Radiological Emergency Preparedness Program
- New lines of business in transportation and homeland security

Key member of team that led a Management Buy-Out, funded by CM Equity Partners. Elected to Board of Directors by management shareholders. Helped launch CommentWorks.com, a tool for managing stakeholder input on government initiatives. (1997-2003)

Senior Vice President for Global Environmental Issues: One of six officers responsible for a group of 120 professionals conducting economic, engineering, and policy analyses related to stratospheric ozone protection and global warming. Responsibilities included developing new projects, defining analytic methodologies, assigning staff, and ensuring quality work was delivered within budget and on schedule. Personal areas of emphasis included:

- EPA programs to foster market transformation for energy efficient technologies
- Implementation of EPA's stratospheric ozone protection program
- International technology transfer projects under the Montreal Protocol

Previously an officer with similar responsibilities in another ICF group focusing on hazardous waste regulations and policies for protection of ground water. (1989-1995)

Project Manager/Senior Associate/Associate: Managed consulting projects related to all phases of the environmental policy-making process, including cost/benefit studies of regulatory and non-regulatory policies, computerized simulation models to address environmental issues, development of guidance documents and outreach materials, and support for state and local environmental programs. Principal analyst on projects in solid and hazardous waste regulation, financing of the Superfund program, and EPA penalty policy. (1983-1989)

**U.S. Office of Management & Budget
Washington, DC**

Presidential Management Intern: Analyst in central management unit, responded to quick turnaround requests from OMB management for budget analyses and briefing materials. (1983)

**The Wilson Center for International Scholars
Washington, DC**

Consultant to Department of Energy: Analyzed Indonesian oil production policy, including optimum resource use strategies and OPEC political constraints. (1983)

**Survey Research Center
University of California at Berkeley**

Research Assistant: Conducted quantitative analysis of survey data and wrote research notes on network election projections and Californians' political ideologies. (1980-1982)

OTHER TRAINING

- Course Development 5-Day Workshop, GWU Teaching & Learning Center
- Environmental Law Institute's "Environmental Boot Camp"
- Arlington County (VA) short course in land use planning
- OMB training course for budget examiners

PEER REVIEWED PUBLICATIONS

- "Consumer's Guide to Regulatory Impact Analysis: Ten Tips for Being an Informed Policymaker," with S. Dudley et al., *Journal of Benefit-Cost Analysis*, Summer 2017, 8(2), 187-204.
- "The Carbon Ask: Effects of Climate Policy on the Value of Fossil Fuel Resources and the Implications for Technological Innovation," with N. Cogswell, *Journal of Environmental Studies & Sciences*, 2016, 6(6), 662-676, first published online 12 May 2016 (also presented at the Conference of the Association for Environmental Studies & Sciences, Washington, DC, June 2016).
- *The Public Sector R&D Enterprise: New Approaches to Portfolio Valuation*, 2015, New York, NY: Palgrave Macmillan.
- "The Value of Flexibility in Adapting to Climate Change: A Real Option Analysis of Investments in Coastal Defense," with N. Vonortas, *Climate Change Economics*, Vol. 3, No. 2, 2012 (cited in Fifth Assessment Report of the Intergovernmental Panel on Climate Change).
- "The Importance of Integrating Risk in Retrospective Evaluations of Research and Development," *Research Evaluation*, Vol. 21, p.152-165, 2012 (also presented at Annual Research Conference of the Association for Public Policy Analysis and Management, Baltimore, MD, November 2012).

SELECTED REPORTS AND PRESENTATIONS

- *The Truth's Advocate: Deconstructing Environmental Policy Claims in a Post-Truth World*, Monograph under preparation.
- Invited Speaker, US Decision to Leave the Paris Climate Accord, GW Democrats, October 2017.
- Lecturer, delivered an overview of the world's environmental challenges to group of Foreign Service professionals who work for the Indonesian Ministry of Foreign Affairs, May 2017.
- Invited Panel Member, discussed intersection of climate science and the politics of climate policy, Earth Day Symposium: Biological Sciences on a Changing Planet, April 2017.
- Invited Panel Chair and Discussant, Association for Public Policy Analysis & Management - DC Regional Student Conference, April 2017.

- Host and Discussant at ENRP Speaker Series: Pathways to a Clean Energy Economy in 2050, an on-campus event at which a speaker from World Resources Institute reported on a major study done by WRI, March 2017.
- Policy Measures to Reduce Water Quality Impacts of Runoff from Agriculture in the United States and the European Union, for the U.S. Department of Agriculture, April 2017.
- Lecturer, delivered four lectures on U.S. environmental policy to visiting delegation of municipal officials from Shanghai, China, October 2016.
- Invited Panel Moderator, Sustaining Water Resources, GreenGov Symposium, White House Council on Environmental Quality, Washington, DC, September 2016.
- One-Off vs. Sequential Decision Making: The Paris Agreement as a Real Option, Conference of the Association for Environmental Studies & Sciences, Washington, DC, June 2016.
- Moderator, Conversations on Race in America: Environmental Justice in the Age of Flint, Michigan, Trachtenberg School Diversity & Inclusion Task Force, April 2016.
- Use of Policy Simulation Tools in Classroom Settings, Special Seminar on Global Climate Change and the Implications for the Development of International Policy Makers, Network of Schools of Public Policy, Affairs, and Administration (NASPAA), April 2016.
- Faculty Reviewer for two student articles in the Trachtenberg School's student journal, Policy Perspectives, October 2015 to April 2016.
- Invited Roundtable Chair, Teaching Benefit-Cost Analysis, Annual Meeting of the Society for Benefit-Cost Analysis, Washington, DC, March 2016.
- One-Off vs. Sequential Decision Making: Traditional Cost-Benefit Analysis vs. Options Analysis and the Case of Climate Change, Invited Presentation at Annual Meeting of the Society for Risk Analysis, Arlington, VA, December 2015.
- Judge, Lafayette Climate Debate, hosted by French Embassy in Washington DC, April 2015.
- Invited Roundtable Participant in Two Panels at Annual Meeting of the Society for Benefit-Cost Analysis: What Should Policy Makers (and the Public) Know about Interpreting Regulatory BCA? *and* Decision Tools for Analyzing Uncertain Futures, Washington, DC, March 2015.
- R&D Portfolio Valuation: Asymmetric Project Payoffs, Project Relationships, and the Question of Whether a Portfolio is More than an Aggregation of Projects, paper presented at the American Evaluation Association Annual Conference, Washington, DC, October 2013.
- Invited Panel Facilitator, Panel on Natural Capital, Eco-System Services, and Financial Security, 9th Natural Resources Symposium of the Ad-Hoc Industry Natural Resource Management Group, Washington, DC, September 2013.
- Portfolios of R&D Options for Decision Support and Program Assessment, with N. Vonortas and J. Linton, invited presentation to the National Institutes of Health, July 2012.
- Flexibility in the Face of Climate Uncertainty: Practical Suggestions for Project Developers, paper commissioned by World Bank/Development Research Group, December 2011.
- Real Option Valuation of R&D Projects: Consideration of Portfolio Effects, presentation at the Atlanta Conference on Science and Innovation Policy, Atlanta, GA, September 2011.

- Real Option Analysis as a Tool for Valuing Investments in Adaptation to Climate Change, with N. Vonortas, paper presented at conference on the “Economics of Adaptation to Climate Change in Low-Income Countries,” hosted by the World Bank, the UN Development Program, and George Washington University, Washington, DC, May 18, 2011.
- Incorporating Risk into Retrospective Analyses of Government Research and Development Programs, paper presented at the Annual Research Conference of the Association for Public Policy Analysis and Management, Boston, MA, November 2010.
- Government R&D Programs and Real Option Techniques, invited presentation to the Congressional Budget Office, Washington, DC, October 2010.
- Using Real Option Techniques to Assess Government R&D Programs: An Application to U.S. DOE’s Industrial Technology Portfolio, presented at 14th Annual International Real Options Conference, LUISS Guido Carli University, Rome, Italy, June 2010.
- Congressional Policy Briefs on Climate Change Issues, with V. Arroyo and others at Pew Center on Global Climate Change, supported by Doris Duke Charitable Foundation, 2008.
- Poster - Factors Affecting Phaseout of Ozone Depleting Substances by Developing Countries, George Washington University Research Showcase, 1st Place Award, 2008.
- Current Directions in the Climate Change Debate in the U.S., for the United Nations Development Program, with V. Arroyo, Pew Center on Global Climate Change, 2007.
- Federal Research on the EHS Implications of Nanotechnology: Management Principles, presentation at a hearing of the National Nanotechnology Coordination Office, 2007.
- Characterizing the EHS Implications of Nanotechnology: Where Should the Federal Government go from Here?, with A. Teepe, published by ICF International, 2006.
- The Phaseout of Ozone Depleting Substances in the Russian Federation, presentation to the Center for Technical Aid Project Preparation and Implementation, Moscow, 1998.
- The Gift of Creation and the Values which Sustain It: A Discussion Tool for Groups and Families, with the Harwood Group, for the National Religious Partnership for the Environment, 1996.
- Mapping the Public Capital of Flint, Michigan, with the Harwood Group, for the Charles S. Mott Foundation, 1996.
- Environmental Technology Transfer to Developing Countries: Practical Lessons Learned During Implementation of the Montreal Protocol, with D. Strelneck, paper presented at the Annual Research Conference of the Association for Public Policy Analysis and Management, Washington, DC, November 1995.
- Feasibility of Alternative Phaseout Schedules for Ozone Depleting Substances in Developing Countries, with A. Karmali, et al, published by Executive Committee of the Multilateral Fund of the Montreal Protocol, 1994.
- Cost-Effectiveness of Options to Reduce Ozone Depleting Substances: Chillers and Motor Vehicle Air Conditioners, with B. Eydt, published by the World Bank, 1994.
- Moving to Alternative Refrigerants: Ten Case Histories, with E. Troy, published by the U.S. Environmental Protection Agency, 1993.
- Study of Emissions and Control of Stratospheric Ozone-Depleting Compounds in California, with M. Gibbs, et al, published by the California Air Resources Board, 1992.

- Feasibility Study for Use of Non-ODS Technologies in Philippines: 14 Project Proposals, for the Department of Environment and Natural Resources, Government of Philippines, 1992.
- Service and Repair of Motor Vehicle Air Conditioners under Section 609 of the Clean Air Act Amendments: Issues and Options, for the U.S. Environmental Protection Agency, 1990.
- Guide to Ground-Water Supply Contingency Planning for Local and State Governments, published by the U.S. Environmental Protection Agency, 1990.
- Wellhead Protection Programs: Tools for Local Governments, with R. Harvey, published by the U.S. Environmental Protection Agency, 1989.
- A Project Management Checklist, for the U.S. Environmental Protection Agency, 1989.
- Options for Imposing a Tax on the Import of Selected Chemical Derivatives, for the U.S. Environmental Protection Agency, 1986.
- Indonesia and OPEC: The Economic Costs of Cartel Membership, published by The Woodrow Wilson Center for International Scholars, 1982.
- Tuning in and Turning Out: The Effect of Network Election Projections on Voter Turnout, with R. Wolfinger, published in Public Opinion, 1981.
- Is the California Electorate Becoming More Conservative?, with S. Kernell and J. Citrin, University of California State Data Program Research Report No. 4, 1980.