

CURRICULUM VITAE

Elaine Vaughan
Department of Psychology and Social Behavior
School of Social Ecology
University of California, Irvine
Irvine, CA 92697
Office Phone: (949) 824-7184
E-mail: evaughan@uci.edu
Fax: (949) 824-3002

Education

University of California, Los Angeles	BA	Psychology	1979
Stanford University	MA	Psychology	1983
Stanford University	Ph.D.	Psychology	1986

Honors, Awards and Selected Service

National Science Foundation Graduate Fellow, 1980-83
Selected Participant, American Association for the Advancement of Science Workshop on Values and Ethics in Science and Technology, 1991
School of Social Ecology Award for Interdisciplinary Research, 1993
Appointed Committee Member, California Project on Comparative Risk Policy, 1993-94
Appointed Committee Member, National Academy of Sciences (National Research Council) Committee on Risk Characterization, 1994-96
Invited presenter to President's Commission on Environmental Risk Assessment and Risk Management, 1995
Invited Topical Lecturer to Annual Conference of the American Association for the Advancement of Science, 1997
Invited Presenter to National Aeronautic and Space Administration (NASA) and National Research Council Joint Conference on Managing the Risk of Near-Earth Objects, 1998.
Appointed Committee Member, National Academy of Sciences (Institute of Medicine) Committee on Protecting the Health of U.S. Deployed Troops, 1999 - 2000
Appointed Committee Member, University of California Scientific Advisory Panel on Low Level Radioactive Waste Disposal in California, 1999 - 2000
Selected review panel member, National Human Genome Research Institute, 2000-2001.
Selected review panel member, Department of Veterans Affairs (Proposal domain: National Centers for the Study of War-Related Illnesses), 2000-2001.
Professor of the Year Award for the Department of Psychology and Social Behavior, 2002 – 2003, Undergraduate Student Association for the School of Social Ecology.

Appointed committee member, National Academy of Sciences (National Research Council), Committee on Public Participation in Environmental Assessment and Decision Making, 2003 - 2006.

Appointed committee member, National Academy of Sciences (Institute of Medicine), Committee on Review of National Immunization Program's Research Procedures and Data Sharing Program, 2004 – 2005.

Appointed committee member, National Academy of Sciences, Committee on Biodefense Analysis and Countermeasures, 2005 – 2007.

Appointed advisory board member, Joint White House-Congressional Committee on Veterans Board on Dose Reconstruction, 2005 – present.

Invited Speaker, International Conference on “New Perspectives on Risk Communication: Uncertainty in a Complex Society.” Goteberg University, Sweden, 2006.

Professional Organizations

American Psychological Association
American Psychological Society
American Public Health Association
Society for Personality and Social Psychology, Inc.
Society for Risk Analysis

Employment and Professional Experience

1993 – present	Associate Professor, Department of Psychology and Social Behavior, University of California, Irvine (Joint Appointment in the Department of Policy, Planning and Design)
1987 – 1993	Assistant Professor, School of Social Ecology, University of California, Irvine
1984 – 1987	Research Psychologist, Division of Adolescent Medicine, University of California, San Francisco
1984 - 1986	Statistical Consultant, School of Engineering, Stanford University

Research Expertise and Interests

Cultural processes, emotion and cognition related to risk and uncertainty
Risk perceptions
Psychological response to environmental risks (including biological terrorism)
Social conflict and risk management
Risk communication and social diversity
Poverty and psychological response to risk

Quantitative risk assessment and policy
Science and public policy
Research methodology and statistical analysis

Teaching Experience

Advance research methodology (graduate level)
Research Design and Data Analysis (graduate level)
Multilevel Modeling (graduate level)
Risk Perceptions (graduate and undergraduate levels)
Environmental and Public Health Policy (undergraduate level)
Community Response to Terrorism (undergraduate level)
Risk Communication (undergraduate level)
Psychosocial Aspects of Bioterrorism (undergraduate level)
Statistics (undergraduate and graduate levels)
Cultural Perspectives on Risk Judgments and Responses (graduate level)

Research Grants and Awards

2005 – 2008 University of Maryland Center for the Study of Terrorism and Responses to Terrorism, Department of Homeland Security, “Communicating the Risks of Biological Terrorism across Diverse Communities” (\$210,000).

2003 – 2005 University of California, Irvine, Newkirk Center for Science and Society, and the Office of Research and Graduate Studies (Principal Investigator), “Preparing for Biological and Chemical Terrorism in a Diverse Society: Informing Public Health Policies about Differences in Communities’ Needs and Responses” (\$16,500).

2003 – 2005 Centers for Disease Control and Prevention (Co-Investigator), “Survey on Diversity and Public Health Preparedness” in collaboration with colleagues at Columbia University’s Mailman School of Public Health (\$50,000).

2001-2007 National Science Foundation (Principal Investigator), "Integrating Community and Expert Perspectives on Risk for Site-Specific Decision-Making" (\$370,000).

2001 - 2003 University of California, Irvine (Principal Investigator), "Cultural Values, Emotions and Risk Judgments" (\$4100)

- 1999 - 2000 National Science Foundation (Principal Investigator), "Response to an Acute Environmental Accident across a Diverse Community" (\$46,000).
- 1999-2000 National Science Foundation (Principal Investigator), "Methodological Equivalence of Risk Belief Instruments across Diverse Samples" (\$30,000)
- 1996 – 2000 National Science Foundation (Principal Investigator), “Social Conflict about Risk and Variability in Framing Decision Problems” (\$300,000).
- 1996 – 2001 National Institutes of Mental Health (Co-Principal Investigator with Karen Rook), “Social and Environmental Contexts of Human Adaptation: A Graduate Training Program” (\$450,000).
- 1994 – 1996 Toxic Substances Program, University of California, (Co-Principal Investigator), “Designing a Model for Risk Evaluation and Pollution Prevention Decision-Making in the Workplace” (\$99,000). In collaboration with Robert Gottlieb, UCLA School of Urban Planning.
- 1989 – 1992 National Science Foundation (Principal Investigator), “Consistency of Lay Perceptions of Risk” (\$160,000).

Selected Research Activities as Consultant/Investigator on Projects

- 1993 - 1994 Evaluation of AIDS Prevention Model for Rural, Minority Women.” NICHD funded project with Principal Investigator, Dr. Janet St. Lawrence. Jackson State University, Jackson, MI.
- 1996 – 1997 “Risk Communication at a Superfund Site: Communicating with Affected Communities about Environmental Exposures.” Environmental Protection Agency, Agency for Toxic Substances and Disease Registry. In consultation for Dr. Dean Baker at UCI’s Environmental and Occupational Health Center.
- 1996 – 1998 “Encouraging Environmental Behaviors in a Cambodian-American Community.” California Integrated Waste Management Board. In consultation with the nonprofit organization, Waste Watch Center.
- 1997 - 1999 "Cultural and Ethnic Differences in Managing the Risks of Unintentional Injuries in Young Children." Collaborators include faculty from the College of Medicine, University of California, Irvine

- 2000 - 2003 "Understanding public perceptions of the risks of environmental exposures and infectious disease outbreaks: A risk communication training program" Los Angeles Unified School District, Division of Medical Services.
- 2001 – 2004 “Developing HEALTH e-VOICE,” a project to develop an interactive, web-based instructional resource in risk communication for Department of Defense health care providers who offer medical services to recently deployed veterans with medically unexplained symptoms. Funded by the Centers for Disease Control and Prevention.

Publications

Book

Vaughan, E. (1990). *Some factors influencing the nonexpert's perception and evaluation of environmental risks*. New York: Garland Publishing.

Book in Progress

Vaughan, E. (forthcoming). *Understanding risk: Ethnicity, poverty and risk perceptions*. Cambridge, MA: MIT Press.

Journal Articles and Chapters

Shafer, M.A., Vaughan, E., Lipkin, E., Moscicki, B., & Schachter, J. (1986). Evaluation of fluorescein-conjugated monoclonal antibody test to detect chlamydia trachomatis endocervical infections in adolescent girls. *The Journal of Pediatrics*, 108(5), 779-93.

Shafer, M., Prager, V., Shalwitz, J., Vaughan, E., Moscicki, B., Brown, R., Wibblesman, C., & Schachter, J. (1987). Prevalence of urethral chlamydia trachomatis and neisseria gonorrhoea among asymptomatic sexually active adolescent boys. *The Journal of Infectious Diseases*, 156, 223-24.

Irwin, C., & Vaughan, E. (1988). Psychosocial context of adolescent development: A study group report. *Journal of Adolescent Health Care*, 9, 11-19.

Shafer, M., Schachter, J., Moscicki, B.A., Weise, A., Shalwitz, Vaughan, E., & Millstein, S. (1989). Urinary leukocyte esterase screening test for asymptomatic chlamydial and gonococcal infections in males. *Journal of American Medical Association*, 262, 2562-2566.

Vaughan, E., & Nordenstam, B. (1991). The perception of environmental risks among ethnically diverse groups. *Journal of Cross-Cultural Psychology*, 22, 29-60.

- Nordenstam, B., & Vaughan, E. (1991). Farmworkers and pesticide exposure: Perceived risk and self-protective behavior. In B.J.Garrick & W.C. Gekler (Eds.), *The analysis, communication and perception of risk*. New York: Plenum Press.
- Vaughan, E., & Seifert, M. (1992). Variability in the framing of risk issues. *Journal of Social Issues, 48*, 119-35.
- Vaughan, E. (1993). Chronic exposure to an environmental hazard: Risk perceptions and self-protective behavior. *Health Psychology, 12*, 74-85.
- Vaughan, E. (1993). Individual and cultural differences in adaptation to environmental risks. *American Psychologist, 48*, 673-80.
- Vaughan, E. (1995). The socioeconomic context of exposure and response to environmental risk. *Environment and Behavior, 27*, 454-89.
- Vaughan, E. (1995). The significance of socioeconomic and ethnic diversity for the risk communication process. *Risk Analysis, 15*, 169-80.
- Tinker, T. & Vaughan, E. (2002). Risk communication. In D.E. Nelson, R.C. Brownson, P.T. Remington, & C. Parvanta (Eds.), *Communicating public health information effectively*, pp. 185 – 203. Washington, D.C.: American Public Health Association.
- Vaughan, E., Anderson, C., Agran, P., & Winn, D. (2004). Cultural differences in young children's vulnerability to injuries: A risk and protection perspective. *Health Psychology, 23*, 289-98.
- Tinker, T., & Vaughan, E. (2004). Communicating the risks of bioterrorism. In R.J. Ursano, C.S. Fullerton, & A.E. Norwood, (Eds.), *Bioterrorism: Psychological and public health interventions*, pp. 308-331. New York: Cambridge University Press.
- Vaughan, E., & Dunton, G. (in press). Difficult socioeconomic circumstances and the utilization of risk information. *Health, Risk & Society*.

Manuscripts Currently Under Review

- Vaughan, E. Personal relevance of risk information: Consequences for analytical reasoning and decision processes.
- Vaughan, E., & Wong, C. Predicting negative emotions from risk appraisals across the adult lifespan.

Manuscripts in Preparation

- Dunton, G., & Vaughan, E. Differences in anticipated emotions across stages of health behavior change.
- Vaughan, E., Kahana, M., & Alberts, J. Competing cognitive and motivational influences on risk judgments and information preferences.
- Vaughan, E., Wallin, A, & Prause, J. Establishing measurement equivalence with small to moderate sample sizes.
- Vaughan, E., Kahana, M., & Riddle, D. Communicating uncertain and changing information during an episode of bioterrorism.
- Wallin, A., Vaughan, E., Agran, P., Anderson, C., & Winn, D. Children's injury risk behaviors: Multiple predictors and explanatory pathways.

Conference Papers, Professional Presentations and Symposia

- Vaughan, E. "Implications of Risk Communication for the Quantitative Risk Assessment Process." National Academy of Sciences Committee on Methodological Improvements to the Department of Homeland Security's Biological Agent Risk Analysis, December, 2006.
- Vaughan, E. "Communicating the Risks of Agricultural Terrorism to Diverse Public Audiences" FDA/UCI Conference on Preventing and Responding to Agricultural Terrorism, May, 2004.
- Vaughan, E., & Taylor, J. "The use of computer animated graphics to depict complex risk information to non-science audiences." Presented at Society for Risk Analysis Annual Meeting, November, 2003.
- Vaughan, E., Kahana, M.B. & Alberts, J.A. "Competing cognitive and motivational influences on risk judgments and preferences for scientific information" Society for Personality and Social Psychology, December, 2003.
- Dunton, G., & Vaughan, E. "Explaining the use of self-protective behaviors among immigrant farm workers." Selected presentation at annual conference of the American Public Health Association, October, 2003
- Vaughan, E. "Cultural differences in children's injury vulnerability: Explanatory models." UCI's Health Policy Seminar, May, 2003.

- Vaughan, E. "The public's right-to-know and crisis communication." Invited commentator at Conference on Security, Information and Technology. Georgetown University Law Center, March, 2003.
- Wallin, A., Vaughan, E., & Kahana, M. "Establishing measurement equivalence across diverse samples using statistical methods for small to moderate sample sizes." Presented at the Symposium on Statistical Methods: Study Design and Decision-Making in Public Health. Centers for Disease Control and Prevention, January, 2003.
- Kahana, M., Vaughan, E., & Wallin, A. "Statistical and methodological strategies for evaluating participatory models for site-specific decision-making." Poster presentation at Symposium on Statistical Methods: Study Design and Decision-Making in Public Health. Centers for Disease Control and Prevention, January, 2003.
- Alberts, J., Wong, C., & Vaughan, E. "Age differences in affective adaptation to environmental health threats." Poster presentation at the annual Scientific Sessions of the Society of Behavioral Medicine, April, 2002.
- Vaughan, E. "Communicating the risks of terrorism to public audiences." University of California town hall meeting on the events of 9/11.
- Vaughan, E. "Research strategies for assessing risk perceptions and responses in community-based studies." Invited presentation at the annual conference of the Society for the Study of Social Problems, August, 2001.
- Vaughan, E. "Social conflict and quantitative risk assessment: Integrating community and expert perspectives." Invited presentation at the Pacific Division of the American Association for the Advancement of Science Annual Conference, June, 2001.
- Vaughan, E., Alberts, J., and Wong, C. "Predicting emotions from risk appraisals across the adult lifespan." Poster presentation at the American Psychological Association Annual Conference, August, 2001.
- Alberts, J., Vaughan, E., & Wong, C. "Age differences in perceived health effects from an environmental accident." Poster presentation at the American Psychological Association Annual Conference, August, 2001.
- Wong, C., Vaughan, E., & Alberts, J. "Ethnic differences in cognitive and affective response to health threats." Poster presentation at the American Psychological Association Annual Conference, August, 2001.

- Vaughan, E. (2000). "Risk communication and assessment across a diverse society." Invited presentation at Center for Environmental Analysis, California State University, Los Angeles.
- Vaughan, E. (1998). "Communicating with the general public and other non-science audiences about the risk of near-earth objects." Invited presentation to joint conference of NASA and the National Research Council on "Managing the Risks of Near-Earth Objects."
- Vaughan, E. (1998). "Incorporating public perspectives into risk assessments for nearby toxic waste sites." Invited presentation to conference on "Reducing Social Conflict about Risk," sponsored by the Agency for Toxic Substances and Disease Registry and the California Department of Health Services.
- Vaughan, E. (1998). "New models for managing health risks." Presentation at Social Ecology/Health Policy Research Group Seminar Series.
- Vaughan, E. (1997). "Social diversity and the science of risk assessment." Invited topical lecturer at annual conference of the American Association for the Advancement of Science. Seattle, WA.
- Vaughan, E. (1995). "Behavioral adaptation to risk and public health promotion." School of Public Health, University of California, Los Angeles.
- Vaughan, E. (1995). "Understanding public concerns about nuclear waste disposal plants: Implications for policy implementation." Invited presentation to Nuclear Waste Technical Review Board.
- Vaughan, E., & Pathak, M. (1994). "Behavioral variability in responses to health risks." American Psychological Association, Los Angeles.
- Vaughan, E. (1994). "Public participation approaches to risk management." Public Policy Center, Emory University, Atlanta, GE.
- Vaughan, E. (1994). "Socioeconomic factors and adaptation to health risks." Graduate School of Architecture and Urban Planning. University of California, Los Angeles.
- Vaughan, E. (1993). "Interdisciplinary research and the scientific study of risk management." Keynote speaker, Social Ecology Research Awards Ceremony, University of California, Irvine.
- Vaughan, E. (1993). "What are 'fair' environmental policies in a diverse society?" Paper presented at annual meeting of American Psychological

Association.

Vaughan, E. (1993). "Social contexts and psychological adaptation to environmental health risks." Invited speaker, Department of Psychology, University of California, Los Angeles.

Vaughan, E.(1993). "Understanding children's health-related knowledge and attitudes: A prerequisite for constructing effective health policies." Discussant for symposium on "The Development of Children's Health-Related Knowledge and Attitudes." Biennial meeting of Society for Research on Children and Development.

Vaughan, E. (1993). "Socioeconomic conditions and response to environmental risks." Invited presenter for annual meeting of American Orthopsychiatric Association.

Vaughan, E. (1992). "Managing risk in a pluralistic society." Invited presenter, Western Political Science Association.

Vaughan, E. (1992). "Adaptation to health risks within a Latino population." Social Ecology Seminar on Latino Health Issues.

Vaughan, E. (1991). "Promoting occupational health among Latino immigrants." Invited speaker to conference on Latino Male Health Issues. Co-sponsored by the American Public Health Association and the Orange County Health Care Agency.

Vaughan, E. (1991). "Variability in adaptation to health risks." Invited paper presented at annual meeting of American Psychological Association.

Vaughan, E. (1991). "Variability in models of risk assessment." Invited speaker, Graduate School of Architecture and Urban Planning, University of California, Los Angeles.

Vaughan, E. (1991). "Cultural factors and responses to environmental risks." Invited symposium paper, Western Psychological Association.

Vaughan, E. (1991). "Perceptions of health risks among ethnically diverse groups." Invited address, National University Continuing Education Association.

Vaughan, E. (1990). "The social and cultural contexts of risk perceptions." Invited presentation, Center for Technology, Environment and Development, Clark University.

Vaughan, E. (1989). "Nonexpert toxicological judgments: Hazard and exposure

assessments.” Paper presented at annual meeting of Society for Risk Analysis.

Vaughan, E., & Nordenstam, B. (1989). “Farmworkers and pesticide exposure: Perceived risk, psychological distress, and health.” Invited paper presented at annual meeting of the American Psychological Association.

Vaughan, E. (1989). “The meaning of risk: Expert and nonexpert differences.” Risk Communication Workshop, University of California, Irvine.

Vaughan, E. (1989). “Lay evaluations of chronic health and environmental risks.” Invited speaker at Health Psychology Colloquium, Department of Psychology, University of California, Los Angeles.

Vaughan, E. (1988). “Risk averse and risk tolerant: Are lay perceptions of risk inconsistent?” Invited paper annual meeting of the APA.

Vaughan, E. (1988). “Risk assessment and the management of environmental and public health hazards.” Invited presentation, International Health Congress, Co-sponsored by the American Public Health Association.

Vaughan, E. (1988). “An environmental and public health profile of ethnic minorities in the United States.” Invited participant, Minority Student Research Forum, Co-sponsored by NIMH and Jackson State University.

Vaughan, E. (1987). “Understanding the public’s perception of environmental and health risks: Implications for policy.” Paper presented at Environmental Psychology Conference, University of California, Irvine.

Grant and Scientific Reviews for:

Department of Veterans Affairs/Department of Defense

National Institutes of Health, National Human Genome Research Institute

National Science Foundation, Decision, Risk, and Management Science Division

National Science Foundation, Ethics and Values Studies Division

National Science Foundation, Science and Technology Centers: Integrative Partnerships Program

Ad hoc reviewer for the following journals:

American Journal of Community Psychology

Basic and Applied Social Psychology
British Journal of Social Psychology
Canadian Journal of Environmental Psychology
Environment and Behavior
Health Psychology
Journal of Applied Psychology
Journal of Applied Social Psychology
Journal of Environmental Psychology
Preventive Medicine
Risk Analysis
Social Science & Medicine