

## **Kimberly M. Thompson, Sc.D.**

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### **EDUCATION**

- 1995 Harvard University, School of Public Health, Doctor of Science in Environmental Health
- 1989 Massachusetts Institute of Technology, Master of Science in Chemical Engineering Practice
- 1988 Massachusetts Institute of Technology, Bachelor of Science in Chemical Engineering

### **ACADEMIC APPOINTMENTS**

- 2012- University of Central Florida, College of Medicine, Professor of Preventive Medicine and Global Health
- 1997-2010 Harvard School of Public Health, Assistant Professor of Risk Analysis and Decision Science, Department of Health Policy and Management (1997-2002), Associate Professor of Risk Analysis and Decision Science, Departments of Health Policy and Management and Society, Human Development, and Health (previously Maternal and Child Health) (2002-2008), and Adjunct Associate Professor (October 2008-August 2010), member of the Harvard University Committee on Higher Degrees in Health Policy (2000-2007), member of the Harvard University-wide Committee on the Environment (1999-2007)
- 2003-9 Harvard Medical School, Children's Hospital Boston, Associate Professor of Risk Analysis and Decision Science (Department of Pediatrics), Associate Scientific Staff (Division of Adolescent Medicine)
- 2005-7 Massachusetts Institute of Technology, Sloan School of Management, Visiting Associate Professor in the System Dynamics Group
- 1989 Massachusetts Institute of Technology, Assistant Director of Chemical Engineering Practice School, Syntex Chemicals summer projects in Boulder, CO

### **OTHER POSITIONS**

- 2008- Kid Risk, Inc., Founder and President. Kid Risk, Inc. is a non-profit (501(c)(3)) organization established in October 2008 exclusively for the following research, charitable, and educational purposes: (a) to develop the field of pediatric risk analysis; (b) to empower children, parents, policy-makers and others to improve children's lives, (c) to inform decisions related to the management of children's risks, (d) to promote children's health and well-being ([www.kidrisk.org](http://www.kidrisk.org)).
- 2008- AORM, LLC, Founder and President. AORM, LLC helps risk managers find the best solutions in a variable, uncertain, and dynamic world. AORM provides consulting, education and training, communications, public speaking, and publishing services, and specializes in risk communication ([www.AORM.com](http://www.AORM.com)).
- 2000-9 Harvard University, Founding Director of the Harvard Kids Risk Project
- 2003-9 Children's Hospital Boston, Co-Founder of the Center on Media and Child Health

## **HONORS AND AWARDS**

- 2014 Edelman Award, First Prize, U.S. Centers for Disease Control and Prevention (CDC)/Kid Risk, Inc. Team, INFORMS
- 2014 Edelman Laureate, INFORMS
- 2008 Jay Wright Forrester Award, System Dynamics Society
- 2008 Practice Award Finalist, Decision Analysis Society
- 2007 Fellow, Society for Risk Analysis
- 2007 World Champion, Beer Distribution Game, System Dynamics Society
- 2004 Chauncey Starr Distinguished Young Risk Analyst Award, Society for Risk Analysis
- 2003-5 Distinguished Lecturer, Sigma Xi/Society for Risk Analysis
- 2003 Outstanding Published Paper Demonstrating an Application of Risk Assessment, Society of Toxicology (with LM Sweeney, TR Tyler, CR Kirman, RA Corley, RH Reitz, DJ Paustenbach, JF Holson, MD Whorton, and ML Gargas)
- 2002 Bambi Holzer Health Literacy Award Honorable Mention, Institute for Healthcare Advancement
- 2001 Thomas T. Hoopes Prize faculty award, Harvard University, Faculty of Arts and Sciences (for work with Seamus Ryan on his Senior Thesis)

## **CURRENT PROFESSIONAL MEMBERSHIPS**

### **INFORMS**

- Decision Analysis Society – Co-Chair of Student Paper Competition (2007)
- Society for Risk Analysis
- Fellow (2007-present)
  - President (2006-2007)
  - President-Elect (2005-2006)
  - Councilor (2002-2005)
  - Historian (2003-2005)
  - Chair of the Exposure Assessment Specialty Group (1999)
- System Dynamics Society
- Forrester Award Committee (2014-2019)

### **PROFESSIONAL SERVICE**

National Vaccine Advisory Committee (2015-present)

World Health Organization, Strategic Advisory Group of Experts (SAGE) Working Group on Polio (2008-present)

National Academy of Sciences and Institute of Medicine

- Committee on the Health Implications of Raising the Minimum Age for Purchasing Tobacco Products (2014-2015)
- Board on Environmental Studies and Toxicology (2004-2010)
- Committee on Ranking FDA Product Categories, Phase I (2008)

- Committee on the Assessment of the Health Implications of Exposure to Dioxin (2004-2006)
- Invited briefing for the Committee on Biosensors (2002)
- Invited briefing for the Advisory Committee Meeting for the Office on Public Understanding of Science (2002)
- Committee for the Study of a Motor Vehicle Rollover Rating System (2002)
- Subcommittee to Update the 1999 Arsenic Report (2001)
- Subcommittee to Evaluate the Risks of the Atsugi Incinerator in Japan (2000)

Core Member of the Peer Consultation Panel for the Environmental Protection Agency  
Voluntary Children's Chemical Evaluation Program (VCCEP) (2002-2006)

Centers for Disease Control and Prevention Advisory Committee on Childhood Lead Poisoning  
Prevention (2002-2005)

#### University Advisory Committee Positions

- University of Michigan School of Public Health, Dean's External Review Committee of Centers (2013)
- External Examiner, University of New South Wales, School of Information Technology and Electrical Engineering, Canberra, Australia (2008)
- Pardee RAND Graduate School, Advisory Council (2007-2008)
- External Examiner, Dublin Institute of Technology, MSc in Environmental Health Risk Management Course, School of Food Science and Environmental Health, Faculty of Tourism and Food (2002)

#### Harvard University Service

- Member of the Faculty Partners Committee, Office for Research Compliance, Harvard Medical School (2003-2005)
- Member of the Harvard Committee on Employee and Contracting Policy Implementation (2002-2003)
- Member of the Scientific Advisory Council for the Harvard Center for Public Health Preparedness (2002-3)
- Member of the Harvard School of Public Health Faculty Council (2001-2004)
- Member of the University Risk Management Committee (2000-2004)

#### Board of Directors Positions

First Star (2003-2013)  
American Council on Science and Health (2002-2005)

#### Corporate Scientific Advisory Boards

Procter & Gamble, Sustainability Expert Advisory Panel (2009-Present)  
Lake Nona Life Project, Johnson & Johnson and the Lake Nona Institute (2013-2014)  
Environ International Corporation/Grocery Manufacturers Association Advisory Panel (2012)  
Procter & Gamble, Central Product Safety Division, External Advisory Board (2005-2012)

The Dow Chemical Company, Toxicology and Environmental Research & Consulting  
Technical Advisory Board (2006-2008)

#### Editorial Boards

- Medical Decision Making (2008-2012)
- Risk Analysis (2008-present), Associate Editor for Engineering (2010-2012)
- Human and Ecological Risk Assessment, Software Review Editor and Senior Editor for Risk Communication (2002-2005)
- Journal of Children's Health, Associate Editor (2002-2005)

#### Peer reviewer for

American Journal of Epidemiology, American Journal of Public Health, Archives of Pediatrics and Adolescent Medicine, BMC Infectious Diseases, Bulletin of the World Health Organization, Environmental Health Perspectives, Environmental Science and Technology, Expert Review of Vaccines, Health Economics, Health Policy, Human and Ecological Risk Assessment, Journal of Adolescent Health, Journal of the Air and Waste Management Association, Journal of the American Medical Association, Journal of Exposure Analysis and Environmental Epidemiology, Journal of Health Economics, Journal of Health Services Research & Policy, Journal of Infectious Diseases, Journal of Pediatrics, Journal of Risk Research, Journal of Toxicology and Environmental Health, The Lancet, The Lancet Infectious Diseases, Medical Decision Making, Medscape General Medicine/Medscape Journal of Medicine, New England Journal of Medicine, Pediatrics, PLoS Medicine, PLoS One, Reliability Engineering and System Safety, Risk Analysis, Science, System Dynamics Review, Vaccine, Value in Health

#### Grant reviewer for

- National Science Foundation
- U.S. Environmental Protection Agency
- U.S. Food and Drug Administration

#### **SELECTED INVITED PRESENTATIONS**

November 2014, "Polio eradicators use integrated analytical models to make better decisions."

Keynote speaker at INFORMS, San Francisco, CA (with Duintjer Tebbens, RJ, Pallansch MA, Cochi, SL, video of Edelman Award Winning Presentation available at:

[https://www.pathlms.com/informs/events/217/thumbnail\\_video\\_presentations/5750](https://www.pathlms.com/informs/events/217/thumbnail_video_presentations/5750)).

August 2014, "Seeing the Big Picture: Systems Analysis and Disease Eradication." Keynote speaker at 1st Gordon Research Conference on Science & Technology Policy: Systems Approaches to Research and Practice, Waterville Valley, NH.

March 2013, "Understanding and Managing Complex Systems: Insights from Modeling Disease Eradication." Invited speaker at the 13th Annual Scientific Meeting of the American Academy of Health Behavior, Santa Fe, NM.

March 2013, "Fueling the Fire: Health, Research, and Life-long Learning." Keynote for the UCF College of Medicine 4th Annual FIRE Research Conference, Orlando, FL.

November 2011, "Integrated Policy Models in the Context of Managing Global Polio Risks." Plenary for the 2011 Association of Public Policy Analysis & Management Conference, Washington, DC.

October 2011, "Children at Risk." Session organizer and speaker for the 2011 Benefit Cost Analysis Conference, Washington, DC.

July 2011, "Seeing Time: Using System Dynamics to Inform Public Health Choices." Plenary for the 2011 System Dynamics Society Conference, Washington, DC.

March 2011, "Using Models to Inform Policy: Insights from Modeling the Complexities of Global Polio Eradication," Keynote for the 4th International Conference on Social Computing, Behavioral-Cultural Modeling and Prediction, College Park, MD.

June 2010, "Using System Dynamics to Develop Policies that Matter: Polio Eradication and Beyond," Lecture in the Institute on Systems Science and Health, New York, NY.

March 2009, "Nutrition, Obesity, and Public Health," Keynote for Purdue Pugwash Conference, West Lafayette, IN.

December 2008, "Risk and Perspective," Keynote for Assessing, Managing and Communicating Environmental Risk: A Call to Action, Hubert H. Humphrey Institute of Public Affairs, Minneapolis, MN.

November 2008, "Leading with Analysis in the Age of Risk Management," Keynote at 2008 Palisade Risk and Decision Analysis Conference, New York, NY.

August 2008, "Prioritizing Food Risks," American College of Nutrition, Baltimore, MD.

July 2008, "Using System Dynamics to Develop Policies that Matter: Global Management of Poliomyelitis and Beyond," System Dynamics Society Conference, Jay Wright Forrester Award Lecture (with Radboud J. Duintjer Tebbens), Athens, Greece.

March 2008, "Polio Eradication and Risk Management: Insights from Global Health Policy Analyses," Duke University, Global Health Institute, Durham, NC.

December 2007, "Polio Eradication: Informing One of the World's Top Public Health Decisions," National Center for Immunization and Respiratory Diseases Monthly Seminar, Centers for Disease Control and Prevention, Atlanta, GA.

December 2007, "Prioritizing Food Risks," Improving Compliance with Dietary Recommendations: Time for New, Inventive Approaches?" USDA/ARS Children's Nutrition Research Center, Baylor College of Medicine, Houston, TX.

November 2007, "Perspectives on the Advancement of Risk Assessment," American College of Toxicology, Charlotte, NC.

November 2007, "Risk in Perspective: Effective Risk Communication," Seafood - Exploring Benefits and Risks, University of New Hampshire, Concord, NH.

September 2007, "Polio Eradication: What Can we Learn from Analysis?" Polio Immunization: Moving Forward, National Institutes of Health, Bethesda, MD.

July 2007, "Life in the Age of Risk Management: Putting Risk in Perspective," Keynote for the Industrial Water Quality 2007, Providence, RI.

March 2007, "Global Poliomyelitis Eradication: Challenges & Benefits," National Immunization Conference, Kansas City, MO.

February 2007, "Costs and Cases of Polio Eradication Compared to Control," WHO Urgent Stakeholder Consultation on Polio Eradication, World Health Organization, Geneva, Switzerland.

November 2006, "Strategy in the Age of Risk Management," Post Approval Drug Safety Strategies: Approaches and Processes to Reduce Risk, Cambridge Healthtech Institute, Philadelphia, PA.

November 2006, "The Age of Risk Management: Understanding the Basics of Risk and Benefit Analysis," Reporting on Consumer Health Risks and Benefits, Foundation for American Communications, Gannett Headquarters, McLean, VA, and Columbia School of Journalism, New York, NY.

October 2006, “Water, People, and the Blue Planet,” Keynote Speaker for the American Academy of Microbiology Colloquium on Clean Water: What is Acceptable Microbial Risk? Tucson, AZ.

June 2006, “Testimony” given at Violent and Explicit Video Games: Informing Parents and Protecting Children Hearing by the Subcommittee on Commerce, Trade, and Consumer Protection, House Rayburn Building, Washington, DC (Available at: <http://energycommerce.house.gov/108/Hearings/06142006hearing1921/hearing.htm>).

May 2006, “Navigating the Age of Risk Management,” Keynote Speaker for the 2006 Project Risk Symposium, Houston, TX.

April 2006, “Media and Kids: What’s in a Game?” Congressional Caucus on Sex and Violence in the Media, Washington, DC.

December 2005, 2006, and November 2007, “How to Think about Risks to Health and Safety,” Medical Evidence Boot Camp, Knight Science Journalism Fellowship Program, Cambridge, MA.

October 2005, “Communicating Children's Health Risks,” Communicating Children's Health Risks: A Symposium on Risk & the Media, National Consumers League, National Press Club, Washington, DC.

September 2005, “The Age of Risk Management,” Keynote Speaker for the 2005 Risk Management and Finance Summit, Nonprofit Risk Management Center, San Francisco, CA.

September 2005, “Life in the Age of Risk Management,” Philosophical Society of Washington, Meeting 2194, Washington, DC.

June 2005, “Retrospective Cost-Effectiveness Analyses for Polio Vaccination in the United States,” National Immunization Program Seminar, Centers for Disease Control and Prevention, Atlanta, GA.

April 2005, “What's in a Game? Critical Information for Parents Raising Today's Media-Saturated Kids.” (with Kevin Haninger), California PTA Meeting, Sacramento, CA.

April 2005, “Young People and Choices in the Age of Risk Management,” Phillips Academy, Andover, MA.

March 2005, “Dangers to Children, Real and Perceived,” The New Generation Gap: Barriers and Breakthroughs, Casey Journalism Center on Children and Families, College Park, MD.

November 2004, “Using Decision Analysis to Support Future PAHO Polio Vaccination Policies” (with Duintjer Tebbens RJ, Andrus JK, and Landaverde M), XVI Reunión del Grupo Técnico Asesor sobre Enfermedades Prevenibles por Vacunación, Organización Panamericana de la Salud (PAHO), Mexico City, Mexico.

September 2004, “Testimony” given at Effectiveness of Media Rating Systems Hearing by the U.S. Committee on Commerce, Science, and Transportation, Subcommittee on Science, Technology, and Space, Senate Russell Building, Washington, DC (Available at: [http://commerce.senate.gov/hearings/testimony.cfm?id=1322&wit\\_id=3850](http://commerce.senate.gov/hearings/testimony.cfm?id=1322&wit_id=3850)).

September 2004, “Risk and Decision Analysis Research for Post-Certification,” WHO Information Consultation on Research Towards Development of Post-Certification Polio Immunization Policy, World Health Organization, Geneva, Switzerland.

August 2004, “Decision Analysis of Post-Certification Polio Eradication Policies,” National Immunization Program Seminar, Centers for Disease Control and Prevention, Atlanta, GA.

May 2004, “Risk Management and Integrated Decision Making,” National Defense University, Washington, DC.

April 2004, “Understanding Children's Risks: The Need for Longitudinal Data,” Studying Children's Health for a Better Tomorrow, U.S. House of Representatives, Cannon Office Building, Washington, DC.

April 2004, "Science in the Age of Risk Management," Keynote address at the Eastern Colleges Science Conference, Manhattan College, New York, NY.

November 2003, "Risk in Perspective," Compliance and Beyond: A Regulatory Seminar, MTL-ACTS, New York, NY.

September 2003, "Decision Analytic Research on Post-Certification Immunization Policies: An Update," WHO Informal Consultation on Research towards Development of Post-Certification Polio Immunization Policy, World Health Organization, Geneva, Switzerland.

July 2003, "The Role of Risk Analysis in Product Design and Regulation," Toy Industry Association, Multi-Discipline Conference for Safety, Trade, Logistics and Credit Professionals, Chicago, IL.

February 2003, "Life in the Age of Risk Management," Keynote Address at the International Consumer Product Health and Safety Organization Meeting, Orlando, FL.

February 2003, "The Media: Peril and Promise," (with Michael Rich), National Chamber of Commerce and the National Chamber Foundation Annual Board meetings, Boca Raton, FL.

February 2003, "Making Peace with Germs," 92nd St. Y, New York, NY.

December 2002, "Addressing Uncertainty and the Use of Precaution in Risk Analysis," Risk Assessment Science Forum, Ottawa, Canada.

October 2002, "Decision Analytic Research on Post-Certification Immunization Policies," WHO Informal Consultation on Economics Research on Post-Certification Immunization Policies, World Health Organization, Geneva, Switzerland.

September 2002, "Sensors: What Can They Tell Me?" National Defense University, Washington, DC.

July 2002, "Dealing with Microbiological Risks in the Age of Risk Management: Putting the Public Back into Public Health," 1st International Conference on Microbiological Risk Assessment: Foodborne Hazards, Baltimore, MD.

April 2002, "Improving Public Health Measures: Advances in Risk Analysis," New England Bioterrorism Preparedness Workshop, MIT Lincoln Laboratory, Lexington, MA.

November 2001, "What's in Popular Children's Entertainment Media and Why You Should Care," Advances in Pediatric Health Care, Children's Hospital, Boston, MA.

May 2001, "Understanding and Communicating Risk," Population Council, New York, NY.

May 2001, "Risk Communication," Seminar on Risk and Human and Organizational Factors, Ship Structure Committee (US Intergovernmental Advisory Committee), Washington, DC.

March 2001, "Media Messages and Youth Health," (with Michael Rich), City of Boston Symposium on Youth Development, Boston, MA.

February 2001, "Children's Risks in the New Millennium" and "Children's Risks and Nutrition," Nutrition Information Service of the USDA/ARS Children's Nutrition Research Center, Baylor College of Medicine, Houston, TX.

January 2001, "Comments on CVM Approach: Risk Assessor Perspective," Use of Antimicrobial Drugs in Food Animals and the Establishment of Regulatory Thresholds on Antimicrobial Resistance Public Meeting sponsored by US FDA, Rockville, MD.

May 2000, "Navigating the Maze: Federal Activities to Address Children's Environmental Health Risks," Children's Environmental Risks: Federal Activities in Perspective, sponsored by the Congressional Research Service, Washington, DC.

March 2000, "Relative Risk: What Consumer Products are Most Dangerous?" Consumer Assembly 2000, Annual Meeting of the Consumer Federation of America, Washington, DC.

January 2000, "Children's Risks: Evaluating Hazard Claims and Setting Priorities," National Consumers League forum on Analyzing the Threats to Children from Consumer Products: A

Symposium on Risk Assessment and Risk Communication, National Press Club, Washington, DC.

September 1999, “Guiding Principles for Preparing Aggregate Exposure Assessments,” National Institutes of Health/National Institute of Environmental Health Sciences Workshop on the Role of Human Exposure Assessment in the Prevention of Environmental Disease, Rockville, MD.

November 1998, “Environmental Risk Management and Risk Ranking in the USA: Lessons and Experiences,” Seminario Manejo Y Comunicacion De Riesgos Ambientales: Nuevos Desafios Para Chile, sponsored by the University of Chile and CONAMA, Santiago, Chile.

March 1998, “Developing Distributions from Data,” Practical Issues in the Use of Probabilistic Risk Assessment and its Applications to Hazardous Waste Sites Conference, sponsored by the EPA Superfund Basic Research Program and the National Institute for Environmental Health Sciences, Sarasota, FL.

## **RESEARCH FUNDING (as Principal Investigator)**

### Bill & Melinda Gates Foundation

- “Characterizing Uncertainty in Long-term Poliovirus Risks to Support Further Research and Risk Management Decisions” (Grant OPP1129391-2015, May 2015-April 2017).
- “Using Models to Support Planning and Management Activities for the Polio Endgame.” (Contract 4533-25298, February 2014-February 2015).
- “Benefits of Investing in the Polio Endgame.” (Contract 4533-23446, March 2013-January 2014).
- “Accelerating Eradication: Development of an Optimization Tool to Cost-Effectively Achieve Optimal Population Immunity and Track Progress.” (Contract 4533-21031, January 2012-December 2012).
- “Identification of Decision Options and Strategies for Achieving the Eradication of Wild Polioviruses Phase II.” (Contract 4533-18487, January 2011-December 2011).
- “Identification of Decision Options and Strategies for Achieving the Eradication of Wild Polioviruses Phase I.” (Contract 4533-17492, January 2010-August 2010).

### U.S. Centers for Disease Control and Prevention

- “Support of Decision Making for Global Switch from tOPV to bOPV Using Integrated Modeling” (Contract 200-2015-M-63078, July 2015-June 2016).
- “Characterization of Outbreak Response Strategies and Forecasting of Vaccine Stockpile Needs for the Polio Endgame” (Contract 200-2015-M-61344, November 2014-October 2015).
- “Integrated Economic, Dynamic Disease, Risk and Decision Analytic Modeling.” (Cooperative Agreement U66IP000519, September 2011-August 2014).
- “Quantification of the role of secondary OPV exposure for different serotypes in providing population immunity” (Contract 200-2010-M-35172, July 2010-January 2011).
- “Trends in the Risk of U.S. Polio Outbreaks and Poliovirus Vaccine Availability for Response” (Contract 200-2010-M-33679, March 2010-June 2010).
- “Review of Polio Immunity States as a Function of Exposure to Live and Inactivated Polioviruses and Implications for Improving Dynamic Modeling of Poliovirus Transmission.” (Contract 200-2010-M-33379, January 2010-July 2010).



- “Assessment of the Value of Global Polio Vaccination and Willingness-to-Pay.” (Cooperative Agreement 5U66IP000169, November 2007-October 2010).
- “Joint Initiative in Vaccine Economics (JIVE) Projects I and II” (Co-PI on Cooperative Agreements U50CCU300860 and 3U01IP000029, PI on global health component, September 2001-September 2008)

#### World Health Organization

- “The Development of Measles Eradication and Mortality Reduction Investment Cases With and Without Rubella.” (Contract 200470477 with the Expanded Programme on Immunization, October 2011-October 2013).
- “Development of an Extended Dynamic Model for Poliovirus Transmission for Analysis of OPV Cessation Timing and Post-Eradication Outbreak Response Issues.” (Contract 200179134 with the Polio Research Committee, April 2009-December 2011).

#### Annie E. Casey Foundation

- “Corporate Commitment to Children” (2004).
- “Do Kids Count in the Board Room?” (2002).

#### Others

- Kids Risk Project, Harvard University, Unrestricted gifts from private individuals and corporations (2000-2008).
- MIT Lincoln Laboratory, “Urban Biodefense Initiative” (2003-2004).
- Chlorine Chemistry Council, “Development of a guide to aid in the evaluation of communications of health-related scientific information” (1998-1999).
- Public Health Advisory Board, “Analysis of cost-effectiveness strategies for children and of federal resource allocations for children's health” (1998).

## BIBLIOGRAPHY

### *Refereed Journal Articles*

1. Thompson KM, Burmaster DE. Parametric distributions for soil ingestion by children. *Risk Analysis* 1991;11(2):339-342.
2. Thompson KM, Burmaster DE, Crouch E.A.C. Monte Carlo techniques for quantitative uncertainty analysis in public health risk assessments. *Risk Analysis* 1992;12(1):53-63.
3. Koutrakis P, Thompson KM, Wolfson JM, Spengler JD, Keeler GJ, Slater J. Determination of aerosol strong acidity losses due to interactions of collected particles: Results from laboratory and field studies. *Atmospheric Environment* 1992;26A(6):987-995.
4. Thompson KM, Evans JS. Workers' breath as a source of perchloroethylene (Perc) in the home. *Journal of Exposure Analysis and Environmental Epidemiology* 1993;3(4):417-430.
5. Burmaster DE, Lloyd KJ, Thompson KM. The need for new methods to backcalculate soil cleanup targets in interval and probabilistic cancer risk assessments. *Human and Ecological Risk Assessment* 1995;1(1):89-100.
6. Burmaster DE, Thompson KM. Backcalculating cleanup targets in probabilistic risk assessments when the acceptability of cancer risk is defined under different risk management policies. *Human and Ecological Risk Assessment* 1995;1(1):101-120.

7. Thompson KM, Graham JD. Going beyond the single number: Using probabilistic risk assessment to improve risk management. *Human and Ecological Risk Assessment* 1996;2(4):1008-1034.
8. Thompson KM, Evans JS. The value of improved national exposure information for perchloroethylene (Perc): A case study for dry cleaners. *Risk Analysis* 1997;17(2):253-271.
9. Burmaster DE, Thompson KM. Estimating exposure point concentrations for surface soils for use in deterministic and probabilistic risk assessments. *Human and Ecological Risk Assessment* 1997;3(3):363-384.
10. Graham JD, Thompson KM, Goldie SJ, Segui-Gomez M, Weinstein MC. The cost-effectiveness of airbags by seating position. *Journal of the American Medical Association* 1997;278:1418-1425. Related letter in 279:506-507.
11. Graham JD, Goldie SJ, Segui-Gomez M, Thompson KM, Nelson T, Glass R, Simpson A, Woerner LG. Reducing risks to children in vehicles with passenger air bags. *Pediatrics* 1998;102(1):e3 (available at <http://www.pediatrics.org/cgi/content/full/102/1/e3>).
12. Burmaster DE, Thompson KM. Fitting second-order parametric distributions to data using maximum likelihood estimation. *Human and Ecological Risk Assessment* 1998;4(2):319-339.
13. Koop CE, Juberg DR, Benedek EP, Brecher RW, Brent RL, Cole P, Corn M, Covello V V, Downes TW, Gad SC, Gold LS, Guengerich FP, Higginson J, Konemann WH, Lamb IV JC, Lioy PJ, Lundberg GD, Thompson KM. A scientific evaluation of health effects of two plasticizers used in medical devices and toys: A report from the American Council on Science and Health. *Medscape General Medicine* 1999(June 22);1(1) (Available at: <http://www.medscape.com/viewarticle/407990>). Letter at: *Medscape General Medicine* 2000(May 26);2(2) (Available at: <http://www.medscape.com/viewarticle/408056>).
14. Thompson KM, Segui-Gomez M, Graham JD. Validating analytical judgments: The case of the airbag's lifesaving effectiveness. *Reliability Engineering and System Safety* 1999;66(1):57-68.
15. Segui-Gomez M, Levy J, Roman H, Thompson KM, McCabe K, Graham JD. Driver distance from the steering wheel: Perception and objective measurement. *American Journal of Public Health* 1999;89(7):1109-1111.
16. Thompson KM. Developing univariate distributions from data for risk analysis. *Human and Ecological Risk Assessment* 1999;5(4):755-783.
17. Burmaster DE, Thompson KM. Using animated probability plots to explore the suitability of mixture models with two component distributions. *Risk Analysis* 1999;19(6):1185-1192.
18. Lofstedt RE, Ikeda S, Thompson KM. Risk management across the globe: Insights from a comparative look at Sweden, Japan, and the United States. *Risk Analysis* 2000;20(2):157-161.
19. Yokota F, Thompson KM. Violence in G-rated animated feature films. *Journal of the American Medical Association* 2000;283:2716-2720.
20. Thompson KM, Bloom DL. Communication of risk assessment information to risk managers. *Journal of Risk Research* 2000;3(4):333-352.
21. Evans JS, Thompson KM, Hattis D. Exposure efficiency: Concept and application to perchloroethylene exposure from dry cleaners. *Journal of the Air & Waste Management Association* 2000;50:1700-1703.
22. Juberg DR, Alfano K, Coughlin RJ, Thompson KM. An observational study of object mouthing behavior by young children. *Pediatrics* 2001;107(1):135-142.
23. Burmaster DE, Thompson KM. Fitting a second-order parametric distribution conditioned on an explanatory variable using maximum likelihood estimation. *Journal of Risk Research* 2001;4(1):49-62.

24. Thompson KM, Yokota F. Depiction of alcohol, tobacco, and other substances in G-rated animated feature films. *Pediatrics* 2001;107(6):1369-74.
25. Sweeney LM, Tyler TR, Kirman CR, Corley RA, Reitz RH, Paustenbach DJ, Holson JF, Whorton MD, Thompson KM, Gargas ML. Proposed occupational exposure limits for select ethylene glycol ethers using PBPK models and Monte Carlo simulations. *Toxicological Sciences* 2001;62(1):124-139.
26. Thompson KM, Haninger K. Violence in E-rated video games. *Journal of the American Medical Association* 2001;286(5):591-598. See related letter at: *Journal of the American Medical Association* 2001;286(16):1972.
27. Claxton K, Thompson KM. A dynamic programming approach to the efficient design of clinical trials. *Journal of Health Economics* 2001;20:797-822.
28. Ko G, Burge HA, Nardell EA, Thompson KM. Estimation of tuberculosis risk and incidence under upper room ultraviolet germicidal irradiation in a waiting room in a hypothetical scenario. *Risk Analysis* 2001;21(4):657-673.
29. Thompson KM, Rabouw RF, Cooke RM. The risk of groundling fatalities from unintentional airplane crashes. *Risk Analysis* 2001;21(6):1025-1037.
30. Cohen JT, Carlson G, Charnley G, Coggon D, Delzell E, Graham JD, Greim H, Krewski D, Medinsky M, Monson R, Paustenbach D, Petersen B, Rappaport S, Rhomberg L, Ryan PB, Thompson KM. A comprehensive evaluation of the potential health risks associated with occupational and environmental exposure to styrene. *Journal of Toxicology and Environmental Health* 2002;5(1-2):1-263.
31. Thompson KM. Variability and uncertainty meet risk management and risk communication. *Risk Analysis* 2002;22(3):647-654.
32. Thompson KM, Segui-Gomez M, Graham JD. Validating benefit and cost estimates: The case of airbag regulation. *Risk Analysis* 2002;22(4):803-811.
33. Lieu TA, Thompson KM, Prosser LA, O'Brien MA, Yusuf HR, Shefer AM, Weinstein MC, Rickert DL. Emerging issues in vaccine economics -- Perspectives from the United States. *Expert Review of Vaccines* 2002;1(4):89-98.
34. Marcy TW, Stefanek M, Thompson KM. Genetic testing for lung cancer risk: If we can do it, should we? *Journal of General Internal Medicine* 2002;17(12):946-51.
35. Thompson KM. The role of bath seats in unintentional infant bathtub drowning deaths. *Medscape General Medicine* 2003(March 26);5(1). (Available at: <http://www.medscape.com/viewarticle/450989>).
36. Thompson KM. How much do kids count in corporate board rooms? Results from the first survey of Fortune 1000 companies. *Medscape General Medicine* 2003(March 26);5(1). (Available at: <http://www.medscape.com/viewarticle/451188>).
37. Ryan MS, Thompson KM. When domestic environmental policy meets international trade policy: Venezuela's challenge to the U.S. gasoline rule. *Human and Ecological Risk Assessment* 2003;9(3):811-827.
38. Sangrujee NK, Duintjer Tebbens RJ, Cáceres VM, Thompson KM. Policy decision options during the first five years following certification of polio eradication. *Medscape General Medicine* 2003(December 19);5(4):35. (Available at: <http://www.medscape.com/viewarticle/464841>).
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#### ***Selected Articles in Refereed Conference Proceedings***

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3. Duintjer Tebbens RJ, Thompson KM. On the characterization of censored survival curves in system dynamic models. Presented at System Dynamics Society 2015 Annual Meeting, Boston, MA. <http://www.systemdynamics.org/web.portal?A1359+0>.
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20. Thompson KM. Foreword. In Bringing up geeks: How to protect your kid's childhood in a grow-up-too-fast world, Hicks, M. New York, NY: Berkley Books 2008.
21. Thompson KM. Discussion on Welton et al. "Research prioritization based on expected value of partial perfect information: A case study on interventions to increase uptake of breast cancer screening." *Journal of the Royal Statistical Society: Series A* 2008;(171, Part 4):838-839.
22. Thompson KM. The role of risk analysis in polio eradication: Modeling possibilities, probabilities, and outcomes to inform choices. *Expert Review of Vaccines* 2012; 11(1):5-7.
23. Thompson KM. Polio endgame management: Focusing on performance with or without inactivated poliovirus vaccine. *The Lancet* 2014; 384(9953):1480-2 (online July 11, [http://dx.doi.org/10.1016/S0140-6736\(14\)60983-1](http://dx.doi.org/10.1016/S0140-6736(14)60983-1)).
24. Thompson KM. Good news for billions of children who will receive IPV. *The Lancet Infectious Diseases* 2015; (online August 17, [http://dx.doi.org/10.1016/S1473-3099\(15\)00099-7](http://dx.doi.org/10.1016/S1473-3099(15)00099-7)).

Reports (not otherwise published)

1. Thompson KM. Risk Analysis in a Complicated World. In Executive Research Group, Managing the Environment: A Report of Best Practices, Volume II, Chapter 10, published by the Government of Ontario, Ministry of the Environment, 2001. Available at: [http://www.ene.gov.on.ca/envision/ergreport/downloads/report\\_paper10.pdf](http://www.ene.gov.on.ca/envision/ergreport/downloads/report_paper10.pdf).
2. Thompson KM. How much do kids count in corporate board rooms? Results from the first survey of Fortune 1000 companies. Newton, MA: AORM 2004. (Full report that corresponds to peer-reviewed paper number 36 that includes statements and quotes from companies and their leaders).
3. Thompson KM, Armstrong AE, Thompson DF. Wither Bioterrorism: Bayes, bugs, and bioterrorists: Lessons learned from the anthrax attacks. Washington, DC: National Defense University, Center for Technology and National Security Policy 2005.

Non-print Materials:

Web sites created and maintained:

- [www.kidrisk.org](http://www.kidrisk.org) (2009-present)
- [www.voila.harvard.edu](http://www.voila.harvard.edu) (2007-2010) now at: [www.food-insight.org](http://www.food-insight.org)
- [www.aorm.com](http://www.aorm.com) (2002-present)
- [www.kidsrisk.harvard.edu](http://www.kidsrisk.harvard.edu) (2000-2010) now at: [www.kidsrisk.org](http://www.kidsrisk.org)
- [www.pracourse.harvard.edu](http://www.pracourse.harvard.edu) (2000-2010)
- [www.health-insight.harvard.edu](http://www.health-insight.harvard.edu) (1999-2010) now at: [www.health-insight-harvard.org](http://www.health-insight-harvard.org)

## MEETINGS ORGANIZED

### Harvard

- Co-organized and co-hosted (with Dr. Michael Rich) a one-day symposium called “Media and Child Health: Peril and Promise” held October 2001 that included 2 presentations and moderating.
- Organized and hosted a two-day symposium called “Managing Children’s Risks: It Takes a Commitment” held March 26-27, 2003 at Harvard University that included 3 presentations and moderating.
- Organized and hosted a one-day symposium called “Managing Children’s Risks: Putting All Children Ahead” at the Harvard School of Public Health held July 30, 2008 that included presenting and moderating.

### Society for Risk Analysis

- Responsible for organizing the 2006 Annual Meeting “Risk Analysis in a Dynamic World: Making a Difference” (Chair of the SRA Annual Meeting Committee).

## TEACHING EXPERIENCE

University of Central Florida, College of Medicine. Authored teaching case on Middle East Respiratory Syndrome (MERS-CoV), co-authored teaching case on polio, and ran “Friday Night at the ER” management simulation for 4<sup>th</sup> year M.D. students (2013).

Harvard University, School of Public Health. Taught Environmental Health Risk: Concepts and Cases (ID285, Winter 2003, 2004, 2005, 2008, and HPE285d, Spring 2001, 2002), developed and taught Analytical Methods for Risk Analysis and Decision Science (HPE301a, Fall 2000 and HPE299d, Spring 2000 and HPE301d, Spring 1998), taught Seminar in Risk Analysis, Management, and Communication (HPE285d, Spring 2000), co-taught Seminar in Risk Analysis, Management, and Communication (HPE285d, Spring 1998 and Spring 1999) with Professor John Graham, co-taught Seminar in Risk Analysis (HPE285b, Fall 1996) with Professor John Graham, developed and directed Continuing Education Course on Probabilistic Risk Analysis: Assessment, Management, and Communication (2000, 2001, 2002, 2003, 2004) also offered at Health Canada in March 2002, lectured in Continuing Education courses for Analyzing Risk: Science, Assessment, and Management (Principles of Exposure Assessment) (1997 to 2000), Benefit-Cost Analysis for Environmental, Health, and Safety Regulation (Air Toxics, Uncertainty, and the Value of Information) (1997 to 1999), and The Risk Communication Challenge (Comparing Risks) (1999 to 2000).

Harvard University, University-wide Health Policy Program, Lectured on Environmental Health in the Doctoral Health Policy Core Seminar (Fall 1997, 1998, 1999).

Massachusetts Institute of Technology. Taught System Dynamics (15.871/15.874/15.962, Spring 2006, 2007). Also taught Risk Analysis in the MIT-BP Projects Academy (Spring and Summer 2006). Lectured in the Medical Evidence Boot Camp, Knight Science Journalism Fellowship Program (2005, 2006, 2007). Member of the MIT Biomedical Enterprise Program Faculty Steering Committee (2006-2008). Guest lecturer in Engineering Risk-Benefit Analysis (Spring 2004, 2007). Lecturer in Supply Chains Driving Strategic Advantage: Managing Dynamics and Innovating the Future, professional education course (2007, 2008).

Co-directed a 1-day course on Probabilistic Risk Assessment at the Society for Risk Analysis Annual Meeting (with Dr. David Burmaster) (1998).

## **RESEARCH SUPERVISION**

### Doctoral Theses, Research Supervisor

- Fumie Yokota, “Improving Value of Information Analysis in Health Risk Management,” June 2003.
- Radboud J. Duintjer Tebbens, “Quantitative Analysis of Trade-Offs and Model Input Sensitivities in Public Health,” TU Delft, The Netherlands, October 2005.

### Doctoral Theses, Committee Member

- Pamela D. Williams, “A Comparison of Food Safety Risks: Science, Perceptions and Values,” Harvard University, Environmental Science and Risk Management, June 1999.
- Gwangpyo Ko, “Reduction in Tuberculosis Transmission by Ultraviolet Germicidal Irradiation and Related Microbial Risk Assessment,” Harvard University, Environmental Health, June 2000.
- Christopher Long, “An Investigation of the Impacts of Indoor and Outdoor Particle Sources in Indoor Residential Environments,” Harvard University, Environmental Health, November 2000.
- Knashawn Hodge Morales, “Statistical Methods for Risk Assessment Based on Epidemiological Data,” Harvard University, Biostatistics, June 2001.
- Chen-Chang Yang, “Predictors of Drug Utilization and Certain Pharmacological Effects of Lipid-Lowering Drugs in the United Kingdom,” Harvard University, Epidemiology, May 2002.
- Amy Vinturella, “Partitioning of Bioavailability of Polycyclic Aromatic Hydrocarbons in Marine Sediments: Implications for Human and Ecological Health,” Harvard University, Environmental Health, June 2003.
- Anne M. Riederer, “Multimedia Human Exposures to Developmental Toxicants in the Philippines,” Harvard University, Environmental Health, June 2004.
- Katherine von Stackelberg, “Contingent valuation for ecological and noncancer risk reductions within an integrated human health and ecological risk framework” Harvard University, Environmental Science and Risk Management, November 2006.
- Janet Rosenbaum, “Reborn a virgin: The validity of adolescent self-report of risk behaviors and the efficacy of abstinence pledges as a marker of subsequent sexual activity,” Harvard University, Health Policy, November 2007.
- Eileen Sandberg, “The health-related quality of life of children ages 7-10 years with Attention Deficit Hyperactivity Disorder (ADHD) and the cost-effectiveness of treating ADHD in these children,” Harvard University, Health Policy, November 2008.
- David Opolon, “Improving Product Availability in Hospitals: The Role of Inventory Inaccuracies” MIT Engineering Systems Division, January 2010.
- Dominika A. Kalkowska, current, TU Delft, The Netherlands.

### Post-doctoral Fellow Supervisor

- Radboud J. Duintjer Tebbens, 2005-2008
- Jong-Hoon Kim, 2010-2011

### Medical Student Research Supervisor

- Emily Simons, Harvard Medical School, 2012-2013.
- Deeva Berrera, University of Central Florida, College of Medicine, 2012-2014.
- Wendy Carcamo, University of Central Florida, College of Medicine, 2012-2013.
- Julia Heizmann, University of Central Florida, College of Medicine, 2012-2013.
- Jill Ireland, University of Central Florida, College of Medicine, 2013-2014.
- Nhuhang Ho, University of Central Florida, College of Medicine, 2012-2013.
- Grace Logan, University of Central Florida, College of Medicine, 2012-2014.
- Michael Lienhard, University of Central Florida, College of Medicine, 2012-2013.
- Michael Norred, University of Central Florida, College of Medicine, 2012-2014.
- Monika Walankiewicz, Research exchange, summer 2014.

### Master's Theses, Research Supervisor

- R. Frank Rabouw, “Living Near an Airport, Risky or Just Annoying?” TU Delft, The Netherlands, October 2000.
- Radboud J. Duintjer Tebbens, “Dynamics and Sensitivities in Cost-effectiveness Analyses for Vaccine Interventions,” TU Delft, The Netherlands, March 2002.
- Amir Sundrani, “Understanding Social Amplification of Risk: Possible Impact of an Avian Flu Pandemic,” MIT LFM, June 2007 (served as MIT Sloan School supervisor, Charles L. Cooney served as School of Engineering Supervisor).
- Daniel Rippy, “Assessing Decision Inputs in Drug Development between Small, Early Stage Companies and Big Pharma: Is There a Difference?” MIT HST Biomedical Enterprise Program, August 2007 (served as co-advisor with Fiona Murray).
- Dominika A. Kalkowska, “Polio eradication: A stochastic approach to modeling hidden circulation of wild polioviruses” TU Delft, The Netherlands, September 2010 (served as co-advisor with Radboud Duintjer Tebbens).

### Bachelor's Theses, Research Supervisor

- M. Seamus Ryan, “Environmental Regulations vs. International Trade: A WTO Ruling on Venezuelan Gasoline Imports into the United States,” Harvard College, Environmental Science and Public Policy, June 2001 (Senior Thesis, won a Harvard University Thomas T. Hoopes Prize).
- Kasper Kisjes, “Individual-based modeling of potential poliovirus transmission in a religious community.” TU Delft, The Netherlands, August 2010.

### **WORK/CONSULTING EXPERIENCE**

Organization	Beginning	Ending
Procter & Gamble, Richardson Vicks (summer)	June 1988	August 1988
Alceon Corporation (full time)	September 1989	June 1990
Alceon Corporation (part time, small projects)	June 1990	September 1997
Abt Associates	August 1995	December 1995
Marasco-Netwon Group	October 1996	June 1997
U.S. Air Force	May 1997	September 1997

Battelle	August 1997	September 1997
ChemRisk Corporation	July 1997	December 1997
International Life Sciences Institute	February 1998	November 1998
American Council on Science and Health	February 1999	June 1999
Argonne National Laboratory	March 2000	May 2000
U.S. Environmental Protection Agency	June 2000	September 2000
Executive Research Group	October 2000	January 2001
U.S. Food and Drug Administration	December 2000	February 2001
Bayer	March 2001	March 2001
MIT Lincoln Laboratory	June 2001	April 2002
Flynn, Gaskins & Bennett	August 2001	February 2002
National Defense University	March 2003	October 2004
NIH, Center on Bioethics	May 2003	September 2003
American Chemistry Council	July 2003	August 2003
Mattel	January 2004	April 2004
Lincolnshire, LLC	February 2004	May 2005
U.S. Food and Drug Administration	July 2004	September 2004
The Scotts Company	December 2004	March 2005
Environ Corporation/DuPont	June 2005	September 2006
Procter & Gamble	June 2005	Current (intermittent)
Merck	October 2005	October 2006
MegaBloks	March 2006	August 2006
Dow Chemical Company	September 2006	September 2008
Genzyme	September 2006	September 2006
FoodMinds, LLC	June 2006	December 2007
Versar, Inc.	August 2008	September 2008
Kimberly Clark	August 2008	December 2008
Dynamic Research	November 2011	December 2011
Alliance of Blood Operators	April 2015	May 2015

## POPULAR MEDIA COVERAGE OF RESEARCH

*Selected Television:* Interviewed on ABC World News Tonight, CBS Evening News, TODAY, CBS The Morning Show, CNBC, CNN, ESPN, C-SPAN2, MSNBC, Canada Today, The Australian Today Show, JAMA video news release, and all Boston local network news stations, and appeared in an episode of FETCH!

*Selected Radio:* NPR, BBC, Canadian Broadcasting Corporation, CBS, ABC, numerous local radio stations around the world

*Selected Print:* New York Times (including Science Times and source of the Quotation of the Day for July 14, 2004), Wall Street Journal, USA Today, LA Times, Chicago Times, Washington Post, Boston Globe (front page), Boston Herald (front page), Orlando Sentinel, Scotland on Sunday, hundreds of local papers that carried one of several Associated Press and Reuters pieces, US News & World Report, Newsweek, Time Magazine, Harper's Magazine, Better Homes and Gardens, Parents Magazine, Child Magazine, Reason Magazine, Business Week, Nature, Discover Magazine, Fitness Magazine, Realtor Magazine, American Way Magazine, Sports Illustrated, and Parents' Paper