

ALISON C. CULLEN

Daniel J. Evans School of Public Policy & Governance
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EDUCATION

- Sc.D.** Environmental Health Science 1992
Harvard University, School of Public Health
- M.S.** Environmental Health Management 1989
Harvard University, School of Public Health
- S.B.** Civil/Environmental Engineering 1984
Massachusetts Institute of Technology

EMPLOYMENT

- 2008 – present Professor, Daniel J. Evans School of Public Policy & Governance
Adjunct Professor, School of Public Health
Adjunct Professor, College of the Environment
University of Washington, Seattle, WA
- 2014 – 2023 Special Government Employee, US EPA Science Advisory Board (2016-2023) and US EPA Clean Air Science Advisory Committee SO_x Panel (2014-2016).
- 2019 – 2021 Interim Dean, Daniel J. Evans School of Public Policy & Governance
- 2018 – 2025 Daniel J. Evans Endowed Professorship
- 2018 – 2019 Associate Dean for Academic Affairs, Daniel J. Evans School of Public Policy & Governance
- 2017 NSF Faculty Fellow, Advanced Study Program
National Center for Atmospheric Research, Boulder CO
- 2016 Health Effects Institute, Visiting Fellow, Boston, MA
- 2009 – 2011 Associate Dean for Academic Affairs, Daniel J. Evans School of Public Policy & Governance, University of Washington

- 2007 - 2008 Visiting Scientist, Institute for Environmental Decisions, Die Eidgenössische Technische Hochschule Zürich
- 2005 - 2007 Associate Dean for Research, Daniel J. Evans School of Public Policy & Governance, University of Washington, Seattle, WA
- 2000 - 2008 Associate Professor, Daniel J. Evans School of Public Policy & Governance, University of Washington, Seattle, WA
- 2000 - 2001 Visiting Scientist, Environmental and Societal Impacts Group, National Center for Atmospheric Research, Boulder, CO
- 1995 - 2000 Assistant Professor, Graduate School of Public Affairs, University of Washington, Seattle, WA
- 1993 - 1995 Assistant Professor, School of Public Health, Departments of Health Policy and Management, Environmental Health, Harvard University, Boston, MA
- 1992 - 1993 Post-doctoral Research Associate, School of Public Health, Harvard University, Boston, MA
- 1988 - 1989 Research Assistant, Office of Policy Planning and Evaluation, U.S. Environmental Protection Agency, Washington, DC
- 1985 - 1988 Environmental Engineer, Gradient Corporation, Cambridge, MA
- 1984 - 1985 Environmental Engineer, Water Management Division, U.S. Environmental Protection Agency, Region I, Boston, MA

PUBLICATIONS

Refereed Publications

Cullen AC, Goldgeier B, Abatzoglou JT, Belval E (2024) Characterising ignition precursors associated with high levels of deployment of wildland fire personnel. *International Journal of Wildland Fire* 33, WF23182. [doi:10.1071/WF23182](https://doi.org/10.1071/WF23182).

McGinnis, S., Kessenich, L., Mearns, L., Cullen, A., Podschwit, H., & Bukovsky, M. (2023). Future regional increases in simultaneous large Western USA wildfires. *International Journal Of Wildland Fire*, 32, 1304-1314. [doi:10.1071/WF22107](https://doi.org/10.1071/WF22107)

Humphrey R, Saltenberger J, Abatzoglou J, Cullen A, 2024, Near-term fire weather forecasting in the Pacific Northwest using 500-hPa map types, *International Journal of*

Wildland Fire, 33(5), <https://www.publish.csiro.au/WF/fulltext/WF23117>. Winner of the William M. Zumeta Doctoral Research Award 2024 University of Washington.

Bloem S, Cullen AC, Abatzoglou JT, Mearns LO, Belval E, 2024, Drivers of international fire management personnel deployed to the United States, *International Journal of Wildland Fire*, WF23093 <https://doi.org/10.1071/WF23093>.

Skinner H, Prichard SJ, Cullen AC, 2024, Decision Support for Landscapes with High Fire Hazard and Competing Values at Risk: The Upper Wenatchee Pilot Project, *Fire* 2024, 7(3), 77; <https://doi.org/10.3390/fire7030077>.

Cullen AC, Prichard SJ, Abatzoglou JT, Dolk A, Kessenich L, Bloem S, Bukovsky, MS, Humphrey R, McGinnis S, Skinner H, Mearns LO, 2023, Growing convergence research for proactive risk management through co-produced climate and wildfire simultaneity decision support, *Risk Analysis* 43: 2262–2279 <https://doi.org/10.1111/risa.14113>

Runebaum JM, Nelson LK, Harper SJ, Bell RJ, Smith GS, Cullen AC, Cutler MJ and Levin PS, 2023, Harvester perceptions of climate vulnerability: Contributions to building climate resilient fisheries. *Frontiers of Marine Science* 9:1049445. doi: 10.3389/fmars.2022.1049445

Harper SJ, Burt J, Nelson LK, Runebaum J, Cullen A, Levin PS, Hunter K, McIsaac J, Ban NC, 2023, Commercial fisher perceptions illuminate a need for social justice considerations in navigating climate change impacts on fisheries systems, *Ecology and Society* 28(2):21 <https://doi.org/10.5751/ES-14142-280221>.

Nelson LK, Cullen AC, Koehn LE, Harper S, Runebaum J, Bogeberg M Levin P, 2023, Understanding perceptions of climate vulnerability to inform more effective adaptation in coastal communities. *PLOS Climate* 2(2): e0000103. <https://doi.org/10.1371/journal.pclm.0000103>.

Bloem S, Cullen A, Mearns L, Abatzoglou J, 2022, “The role of international resource sharing arrangements in managing fire in the face of climate change, *Fire*, 5(4), 88; <https://doi.org/10.3390/fire5040088>.

Nelson LK, Bogeberg M, Cullen A, Koehn L, Strawn A, Levin PS, 2022, Perspectives on managing fisheries for community wellbeing in the face of climate change, *Maritime Studies*, 21(235–254) <https://link.springer.com/article/10.1007/s40152-021-00252-z>.

Koehn LK, Nelson LK, Samhouri JF, Norman K, Jacox M, Cullen AC, Fiechter J, Buil MP, Levin PS, 2022, "Social-ecological vulnerability of fishing communities to climate change: a US West Coast case study". *PLoS ONE* 17(8): e0272120.

Shuman JK, Balch, JK, Barnes RT, Higuera PE, Roos CI, Schwilk DW, Stavros EN, Banerjee T, Bela MM, Bendix J, Bertolino S, Bililign S, Bladon KD, Brando P, Breidenthal RE, Buma B, Calhoun D, Carvalho LMV, Cattau ME, Cawley KM, Chandra S, Chipman ML, Cobian-Iñiguez J, Conlisk E, Coop J, Cullen A, Davis KT, Dayalu A,

De Sales F, Dolman M, Ellsworth LM, Franklin S, Guiterman CH, Hamilton M, Hanan EJ, Hansen WD, Hantson S, Harvey BJ, Holz A, Huang T, Hurteau MD, Ilangakoon NT, Jennings M, Jones C, Klimaszewski-Patterson A, Kobziar LN, Kominoski J, Kosovic B, Krawchuk MA, Laris P, Leonard J, Loria-Salazar SM, Lucash M, Mahmoud H, Margolis E, Maxwell T, McCarty JL, McWethy DB, Meyer RS, Miesel JR, Moser WK, Nagy RC, Niyogi D, Palmer HM, Pellegrini A, Poulter B, Robertson K, Rocha AV, Sadegh M, Santos F, Scordo F, Sexton JO, Sharma AS, Smith AMS, Soja AJ, Still C, Swetnam T, Syphard AD, Tingley MW, Tohidi A, Trugman AT, Turetsky M, Varner JM, Wang Y, Whitman T, Yelenik S, Zhang X, 2022, “Reimagine fire science for the Anthropocene”, *PNAS Nexus*, 1(3) <https://doi.org/10.1093/pnasnexus/pgac115>.

Abatzoglou JT, Cullen AC, Prichard S, 2021, “Synchronous fires and fire danger challenge US capacity to respond”. *Climate CIRCulator*, September 29, 2021. <https://climatecirculatororg.wordpress.com/2021/09/29/synchronous-fires-and-fire-danger/>.

Cullen AC, Axe T, Podschwit H, 2021, “High-severity wildfire potential – associating meteorology, climate, resource demand and wildfire activity with preparedness levels (PLs)”. *International Journal of Wildland Fire*, 30(30–41) <https://doi.org/10.1071/WF20066>.

Scott RP, Chabot-Couture G, Cullen AC, 2021. “Disease Surveillance Investments and Administration: Limits to Information Value in Pakistan Polio Eradication”. *Risk Analysis*. 41(2): 273-288, <https://doi.org/10.1111/risa.13580>.

Podschwit H, Cullen AC, 2020, “Patterns and trends in simultaneous wildfire activity in the Continental United States from 1984-2015” *International Journal of Wildland Fire*, 29(12) 1057-1071, <https://doi.org/10.1071/WF19150>.

Pouzou JG, Kissel J, Yost MG, Fenske RA, Cullen AC, 2019, “Use of benchmark dose models in risk assessment for occupational handlers of eight pesticides used in pome fruit production” *Regulatory Toxicology and Pharmacology*, Vol 110 (104504) (Award - Top Occupational Toxicology Journal Article) <http://dx.doi.org/10.1016/j.yrtph.2019.104504>.

Hodgson EE, Essington TE, Samhoury JF, Allison EH, Bennett NJ, Bostrom A, Cullen AC, Kasperski S, Levin PS and Poe MR, 2019, “Integrated Risk Assessment for the Blue Economy”. *Frontiers in Marine Science*, 6:609, doi: 10.3389/fmars.2019.00609.

Podschwit HR, Larkin NK, Steel EA, Cullen AC, Alvarado E, 2018, “Multi-Model Forecasts of Very-Large Fire Occurrences during the End of the 21st Century” *Climate* 6(4), 100; doi:10.3390/cli6040100.

Cullen AC, Anderson CL, Biscaye P, Reynolds TW, 2018, “Variability in Cross-Domain Risk Perception among Smallholder Farmers in Mali by Gender and Other Demographic and Attitudinal Characteristics” *Risk Analysis* 38(7): 1361-1377.

Pouzou JG, Cullen AC, Yost MG, Kissel JC, Fenske RA, 2018, “Comparative Probabilistic Assessment of Occupational Pesticide Exposures Based on Regulatory Assessments,” *Risk Analysis* 38(6): 1223-1238, doi: 10.1111/risa.12936.

Wallace J, Youngblood J, Port J, Cullen AC, Smith M, Workman T, Faustman E, 2018, “Variability in metagenomic samples from the Puget Sound: Relationship to temporal and anthropogenic impacts,” *PLOS ONE*, <https://doi.org/10.1371/journal.pone.0192412>.

Cullen AC, Anderson CL, 2017, “Perception of Climate Risk Among Rural Farmers in Vietnam: Consistency within Households and with the Empirical Record,” *Risk Analysis*, 37(3): 531–545.

Fischer P, Cullen AC, Ettl G, 2017, “The effects of forest management on carbon storage and revenue in western Washington: A probabilistic simulation of tradeoffs,” *Risk Analysis*, 37(1):173-192.

Smith M, Grice J, Cullen AC, Faustman E, 2016, “A toxicological framework for the interpretation of Children’s Safe Product Act data”, *Intl Journal of Env Research and Public Health*, 13(4):431.

Scott R, Cullen A, Fox-Lent C, Linkov I, 2016, “Can carbon nanomaterials improve CZTS photovoltaic devices? Evaluation of performance and impacts using integrated life cycle assessment and decision analysis”, *Risk Analysis*, 36(10):1916–1935.

Scott R, Cullen AC, 2016, “Minimizing the life cycle impacts of solar photovoltaics: comparing carbon and molybdenum back contact options,” *The Intl Journal of Life Cycle Assessment*, 21(1):29-43.

Reynolds T, Waddington S, Anderson CL, Chew A, True Z, Cullen AC, 2015, “Environmental impacts and constraints associated with the production of major food crops in Sub-Saharan Africa and South Asia,” *Food Security*, 7: 4 (795-822), DOI: <http://link.springer.com/article/10.1007/s12571-015-0478-1>.

Youngblood J, Wallace J, Port J, Cullen AC, Faustman EM, 2014, “Metagenomic Applications for Environmental Health Surveillance: A One Health Case Study from the Pacific Northwest Ecosystem”. *GRF Davos Planet@Risk: Special Issue on One Health*, 2 (4): 281-284.

Anderson, CL, Stahley, K, and Cullen, AC, 2014, “Individual and Intra-Household Positionality in Vietnam”, *Journal of Behavioral and Experimental Economics*, 49: 26-34.

Port, JA, Cullen, AC, Wallace, JC, Smith, MN, Faustman, EM, 2014, “Metagenomic Frameworks for Monitoring Antibiotic Resistance in Aquatic Environments”, *Environmental Health Perspectives*, 122: 222-228.

Gockel, R, and Cullen, AC, 2013, "Willing, but Unable: Determinants of Participation Rates for Training Workshops in Central Vietnam", *Asian Journal of Agriculture and Rural Development*, 3(10)2013: 753-766.

Wu, CF, Liu, LJ, Cullen, A, Westberg, H, Williamson, J, 2011, "Spatial-Temporal and Cancer Risk Assessment of Selected Hazardous Air Pollutants in Seattle", *Environment International*, 37, pp. 11-17.

Cullen, AC, 2010, "Monte Carlo Simulation for Quantitative Health Risk Analysis" in James J. Cochran (ed) *Wiley Encyclopedia of Operations Research and Management Science*. pp. 1-9, John Wiley & Sons, Inc.

Fletschner, D, Anderson, CL, and Cullen, A, 2010, "Are Women as Likely to Take Risks and Compete? Behavioral Findings from Central Vietnam," *Journal of Development Studies*, 46(8). pp. 1459-1479.

Bogen, K, Cullen, A, Frey, HC, and Price, P, 2009, "Probabilistic Exposure Analysis for Chemical Risk Characterization," *Toxicological Sciences*, 109(1), pp. 4-17.

Wu, CF, Wu, S, Wu, Y, Cullen, AC, Larson, T, Williamson, J, Liu, LJ, 2009 "Cancer Risk Assessment of Selected Hazardous Air Pollutants in Seattle," *Environment International*, 35, pp. 516-522.

Anderson, C.L., Cullen, A.C., and Stamoulis, K., 2008, "Preference Variability Along the Policy Chain in Vietnam," *Journal of Socio Economics*, 37:1729-1745.

Cullen, A.C., Kramer, C.B, and Faustman, E.M., 2008, "The Application of Genetic Information for Regulatory Standard Setting under the Clean Air Act: A Decision Analytic Approach," *Risk Analysis*, 28:877-890.

Markoff, M., and Cullen, A.C., 2008, "Impact of Climate Change on Pacific Northwest Hydropower," *Climatic Change*, 87:451- 469.

Cullen, A.C., D.V. Vorhees, and L.M. Altshul, 2007, "Impact of Dredging on PCB Concentrations and Congener Profiles in Tomatoes Grown near New Bedford Harbor," *Integrated Exposure Analysis and Management*, 3: 484 - 490.

Cullen, A.C., Labiosa, W., Levin, P., and Grossman, E., 2007, "Integrating the Sciences: Natural and Social Science Support for Decision-Making," in Mary Ruckelshaus and Michelle McClure (eds.), *Sound Science: Synthesizing Ecological and Socio-economic Information about the Puget Sound Ecosystem*, ed. NW Science Fisheries Center, NOAA Fisheries Service.

Kramer, C.B, Cullen, A.C., and Faustman, E.M., 2006, "Policy Implications of Genetic Information on Regulation under the Clean Air Act: The Case of Particulate Matter and

Asthmatics,” *Environmental Health Perspectives*, 114(3), 313-319. [online 26 October 2005]
<http://ehp.niehs.nih.gov/docs/2005/8299/abstract.html>

Cullen, A.C. and Small, M., 2003, “Uncertain Risk: The Role and Limits of Quantitative Assessment,” in Timothy McDaniels and Mitchell Small (eds.), *Risk Analysis and Society: An Interdisciplinary Characterization of the Field*, Cambridge University Press.

Hornbaker, M. and Cullen, A.C., 2003, “The Precautionary Principle in Practice: Applying the Ashford Framework to Technological Risk,” *Human and Ecological Risk Assessment*, 9: 789-810.

Bates, S., Cullen, A., and Raftery, A., 2003, “Bayesian Uncertainty Assessment in Multicompartment Deterministic Simulation Models for Environmental Risk Assessment,” *Environmetrics*, 14:355-371.

Cullen, A.C., 2002, “Comparison of Model Predictions and Measurements for PCB Concentration in the vicinity of Greater New Bedford Superfund Site” *ES&T*, **36**:2033-2038.

Steel, E.A., Liebermann, M., McElhany, P., Scholz, N. and Cullen, A.C., 2002, “Managing Uncertainty in Salmon Habitat Recovery Planning,” in Tim Beechie, Phil Roni and Ashley Steel (eds.), *Assessment Tools for Salmonid Habitat Recovery Planning*, NOAA Technical Memorandum NMFS-NWFSC.

Cullen, A.C. and Bretherton, C.S., 2002, “Progress Toward an Environmentally Sustainable Planet,” in C. Leigh Anderson and Janet Looney (eds.), *Making Progress*, Lanham, MD: Lexington Books.

Small, M., Fischhoff, B., Farrow, S., Cullen, A., DeKay, M., Fischbeck, P., Kadane, J., Lave, L., Morgan, M.G., and Takemura, K., 2002, “Risk based decision analysis in support of precautionary approaches,” *Journal of Risk Research*, **5**:391-417.

Gertler, N. and A.C. Cullen, 2000, "Effects of a Perceived Risk on Property Values During a Transient Cancer Scare: Implications for Risk Valuation and the Value of Life," *HERA*, **6**:731-745.

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Cullen, A.C., 1999, “Uncertainty - Lessons from Exposure Analysis,” *Inhalation Toxicology*, **11**:603-610.

Vorhees, D.V., Cullen, A.C. and L.M. Altshul, 1999, “Polychlorinated Biphenyls in House Dust and Yard Soil Near a Superfund Site,” *ES&T*, **32**:2151-2156.

Vorhees, D.V., Cullen, A.C. and L.M. Altshul, 1997, "Exposure to Polychlorinated Biphenyls in Residential Indoor Air and Outdoor Air Near a Superfund Site," *ES&T*, **31**:3612-3618.

Cullen, A.C. and A.Q. Eschenroeder, 1997, "Coping with Municipal Waste", in *The Greening of Industry: A Risk Management Approach*, J. D. Graham and J. K. Hartwell (eds.), Harvard University Press, Cambridge, MA.

Cullen, A.C., Vorhees, D.V., and L.M. Altshul, 1996, "The Influence of Harbor Contamination on the Level and Composition of Polychlorinated Biphenyls (PCBs) in Produce in Greater New Bedford, MA," *ES&T*, **30**:1581-1588.

Cullen, A.C., 1995, "The Sensitivity of Monte Carlo Simulation Results to Model Assumptions: The Case of MSWC Risk Assessment," *JAWMA*, **45**: 538-546.

Cullen, A.C., 1994, "Multimedia Assessment of Human Exposure," *Central European Journal of Public Health*, **2**: 53-56.

Cullen¹, A.C., 1994, "Measures of Conservatism in Probabilistic Risk Assessment," *Risk Analysis*, **14**: 389-393.

Taylor, A.C., 1993, "Using Objective and Subjective Information to Generate Distributions for Probabilistic Exposure Assessment," *Journal of Exp An and Env Epi*, **3**: 285-298.

Taylor, A.C., Evans, J.S. and T.E. McKone, 1993, "The Value of Animal Test Information in Environmental Control Decisions," *Risk Analysis*, **13**: 403-412.

Books

Cullen, A.C. and H.C. Frey, 1999, *Probabilistic Techniques in Exposure Assessment: A Handbook for Dealing With Variability and Uncertainty in Models and Inputs*, Plenum Press, New York, NY.

Other Publications

Improving Loading, Ticketing, and Community Relations for the Washington State Ferries' Triangle Route, 2018, a report to the Washington State Department of Transportation.

Recommendations on Uncertainty in Epidemiology, 2013, Goldstein, D., Pierson, J., Cullen, A., Burns, C., Poole, C., Weed, D., Wijngaarden, E., Goodman, J., Launi, J., Rupprecht, K., Ritter, L., Camus, M., Tsai, S., Dourson, M., Yi, S., Uncertainty Group,

¹ Note name change from Taylor to Cullen

ILSI Health and Environmental Sciences Institute, Workshop on Evaluating Causality in Epidemiology.

Technical Report, 2009, "Risks of changing livelihoods to increase market orientation: Demand for credit, job training programs, and attitude toward environmental risks", prepared for the International Fund for Agricultural Development, Rome, Italy (co-authored by C. Leigh Anderson, Alison Cullen, Diana Fletschner, Ross Gilliland, Ryan Gockel, Andy Gordon and Minh Nguyen).

Research Brief, 2008, "Risk Perception, Decision Making, Poverty and Vulnerability: An Interdisciplinary Approach to Policy," Policy Brief prepared for the International Fund for Agricultural Development, Rome, Italy.

"Superfund and Mining Megsites – Lessons from the Coeur d'Alene River Basin", 2005, Committee on Superfund Site Assessment and Remediation in the Coeur d'Alene River Basin, National Research Council, National Academies Press.

Bates, S., Raftery, A., and Cullen, A., 2000, "Bayesian Uncertainty Assessment in Deterministic Models for Environmental Risk Assessment," *Proceedings of the 2000 Joint Statistical Meetings*, Section on Statistics and the Environment.

Cullen, A., Guttorp, P., and Smith, R., Editorial, *Environmetrics*, 2000, Special Issue on Particulate Matter.

Brauer, M., Cullen, A., Fabianova, E., Hrubá, F., Mikhlikova, E., Miskovic, P., and Vandenberg, J., 1999, "Exposure Assessment in Environmental and Occupational Health," US-Slovak Science and Technology Program, Donovaly, Slovak Republic.

Evans, J., J. Graham, G. Gray, A. Hollis, P.B. Ryan, A. Smith, M. Smith and A. Taylor, 1992, "Summary of Workshop to Review an OMB Report on Regulatory Risk Assessment and Management," *Risk -Issues in Health and Safety*, **3**: 71-83.

Taylor, A.C. and D.E. Burmaster, 1989, "Incorporating Time Varying Parameters in the Estimation of Human Health Risk from Superfund Sites," in *Superfund '89, Proceedings of the 10th National Conference*, Washington, DC, the Hazardous Materials Control Research Institute, Silver Spring, MD; November.

Taylor, A.C. and R. Kashmanian, 1989, *Study and Assessment of Eight Yard Waste Composting Programs Across the United States*, final report to EPA under Fellowship U-913010-01-0, EPA/530-SW-89-038, Office of Solid Waste, Office of Policy, Planning and Evaluation, US EPA, Washington DC, 20460.

Taylor, A.C. and R. Kashmanian, 1989, "Overview of EPA Composting Study," *Biocycle*, **30**: 36-42.

Kashmanian, R. and A.C. Taylor, 1989, "Costs of Composting Yard Wastes vs. Landfilling," *Biocycle*, **30**:60-65

Taylor, A.C. and M. Brauer, 1988, "Berlin Conference Roundup: Surveying the Sick Building Syndrome Literature," *Indoor Pollution Law Report*, **2**, Nos. 7. and 8.

Taylor, A.C., D.E. Burmaster, B.L. Murphy, S.H. Boutwell, "An Exposure Modeling System for Hazardous Waste Sites," in *Superfund '87, Proceedings of the 8th National Conference*, Washington, DC, the Hazardous Materials Control Research Institute, Silver Spring, MD; November 1987.

PRESENTATIONS

12/23 "Characterizing Ignitions Which Evolve into Resource Intensive Wildfires in the Western US", Society for Risk Analysis Annual Meeting 2023, Washington DC.

12/23 "Assessing the Impact of Development in the Wildland-Urban Interface on Projected Wildfire", Society for Risk Analysis Annual Meeting 2023, Washington DC.

10/23 "Risk Fundamentals – Decision-making and Behavior Change: Risk Perceptions, Poverty, and Risk Communication" Bill and Melinda Gates Foundation Convening, Seattle WA.

6/23 "Commercial fish harvester perceptions highlight a need for social justice considerations in navigating climate change impacts on fisheries systems" Coastal Zone Canada 2023.

4/23 "Lessons from the Field: Perspectives on Catalyzing Convergence in GCR Phase II" National Science Foundation GCR Webinar.

12/22 "International Cooperation for Managing Wildfire Risk" Society for Risk Analysis Annual Meeting December 2022 Tampa FL.

12/22 "Fire Weather Forecasting in the Pacific Northwest" Society for Risk Analysis Annual Meeting December 2022 Tampa FL.

12/22 "Risk Management through Megafire Response" Society for Risk Analysis Annual Meeting December 2022 Tampa FL.

12/22 "Growing Convergence Research: Co-producing Climate Projection Information for Managing Risk from Simultaneous Wildfires" Society for Risk Analysis Annual Meeting December 2022 Tampa FL.

- 5/22 Fire and Climate Conference 2022 “Where There’s Fire, There’s Smoke: Examining Population Exposure to PM2.5 from Prescribed Burning in Northeastern Washington” Dolk, AD; Alvarado, E; Cullen, A, Pasadena, CA.
- 4/22 “Future changes in Simultaneous Megafires over the United States as projected by NA-CORDEX Simulations” Session CL5.3.3 – Regional climate modeling, including CORDEX, Bukovsky M, Cullen AC, European Geophysical Union, April 2022 Vienna.
- 12/21 “Multimodel uncertainty in projected changes of simultaneous megafires in the Western US based on NA-CORDEX regional climate Simulations” American Geophysical Union. December 2021.
- 12/21 Symposium Convener: Managing and Reducing the Risk of Wildfire through Response and Fuel Treatment. Society for Risk Analysis 2021 Annual Meeting. December 2021.
- 12/21 “Managing Future Fire Risk – an NSF Growing Convergence Research Project.” Society for Risk Analysis 2021 Annual Meeting. December 2021.
- 12/21 “The Role of International Resource Sharing Arrangements in Wildfire Risk Management in the Face of Climate Change.” Society for Risk Analysis 2021 Annual Meeting. December 2021.
- 11/21 “Convergence Research on Simultaneous Fires” Association of Fire Ecology. Annual Meeting. November 2021.
- 12/20 “Projected Effects of Climate Change on Simultaneous North American Megafires Based on NA-CORDEX Regional Climate Simulations” American Geophysical Union Annual Meeting 2020 (virtual)
- 12/20 “Election 2020 Retrospective – Information, Policy and Outcomes”, Evans School Dean’s Forum on Race and Public Policy (virtual).
- 12/20 “Managing Future Risk of Increasing Simultaneous Megafires” *Uncertainty Assessment and Modeling Session*, Society for Risk Analysis Annual Meeting 2020 (virtual).
- 12/20 “Don’t let your students grow up to be Risk Analysts” Roundtable Panel, Society for Risk Analysis Annual Meeting 2020 (virtual).
- 10/20 “Accelerating Social Transformation: Responsive Leadership”, Vulcan Inc Panel Moderator, AST 2020 (virtual), Seattle, WA.
- 10/20 “Promoting Equity and Inclusion through Education: Priorities, Challenges, Lessons Learned and Best Practices for Giving Voice to Women, Minorities &

Others Who've Historically Been Marginalized" NASPAA Annual Meeting 2020, (virtual).

10/20 "Resources, Strategies and Lessons Learned for Addressing Mental Health and Wellness Issues in Public Affairs Programs", NASPAA Annual Meeting 2020, (virtual).

9/20 "Convocation Welcome from the Evans School, 2020-2021", Video Shoot, Parrington Hall, University of Washington, Seattle, WA.

8/20 "Small scale Producer Risk and Inclusion: Identification" Center for Risk and Inclusion in Food Systems, Workshop Lead, BMGF and UW, Seattle WA.

7/20 "Wildfire Risk Management: Future Trends and Impact on Decision Making" Cascadia Wildfire and Urban Smoke Webinar, Seattle, WA.

5/20 "Race, Equity and Inclusion in the Curriculum," University Leadership Council, Washington DC.

4/20 "Digital Atlas Hazard Layers," Convening Session Pan-Atlas Layers Review, Bill and Melinda Gates Foundation, virtual.

4/20 "UW Reflections: BMGF Climate Portfolio and Gaps" Climate Change Learning Workshop, Bill and Melinda Gates Foundation, virtual.

3/20 "Motivation and Connections" Ocean Modeling Forum Workshop, Seattle, WA.

2/20 "Integrated Vulnerability Analysis for West Coast Fishing Communities," Lenfest Ocean Programs Webinar 2020.

10/19 "Experiential Learning – Learning by Doing and Making Policy Education Real" NASPAA Annual Meeting 2019, Los Angeles, CA.

5/19 "The Administrative Value of Poliovirus Surveillance Information" Fifth World Congress on Risk 2019, Cape Town, South Africa.

5/19 "Variability in Cross Domain Risk Perception among Smallholder Farmers in Mali by Gender and other Demographic and Attitudinal Characteristics" Fifth World Congress on Risk 2019, Cape Town, South Africa.

2/19 "Loading, Ticketing and Community Engagement on WSF's Triangle Route" Presentation to Washington State Transportation Commission, Olympia, WA.

12/18 "Past patterns and trends in simultaneity of very large wildfires: Implications for risk management" Society for Risk Analysis Annual Meeting 2018, New Orleans, LA.

- 5/18 “Wildfire Risk: Future Trends and Resource Allocation, National Center for Atmospheric Research, Boulder, CO.
- 2/18 “Wildfire Risk Management” College of the Environment, University of Washington, Seattle WA.
- 12/17 “Decentralization: What it Might Mean for Risk Governance” Roundtable, Society for Risk Analysis Annual Meeting 2017, Arlington VA.
- 3/17 “Wildfire: Future Synchronicity and Impact on Management Decision Making” National Center for Atmospheric Research, Institute for Mathematics Applied to the Geosciences, Boulder CO.
- 12/16 “Quantitative Approaches to Addressing Uncertainty and Variability in Risk and Decision Analysis” Health Effects Institute, Boston, MA.
- 12/16 “States as Risk Policy Innovators, the Case of Washington State’s Initiative 732” Society for Risk Analysis Annual Meeting 2016, San Diego, CA.
- 12/16 “Policy implications of gender associated differences in risk attitudes and perceptions among farmers in Mali” Society for Risk Analysis Annual Meeting 2016, San Diego, CA.
- 12/16 “Guiding versus choosing: the role of Life Cycle Assessment in US state level policymaking ” Society for Risk Analysis Annual Meeting 2016, San Diego, CA.
- 3/16 “What challenges the application of Life Cycle Assessment in public sector decision making?” American Society of Public Administration Annual Meeting 2016, Seattle, WA.
- 7/15 “Strategic Plan for Research on the Impacts of 21st Century Oil and Gas Development in the Appalachian Region and Beyond: Recommendations” Health Effects Institute Public Workshop, Pittsburgh, PA.
- 12/14 “Design and Decision - an Analysis of the Risk-Benefit Tradeoff of Using Graphite, Graphene or Molybdenum Device Layers in Thin Film Photovoltaics” (with Ryan Scott), Society for Risk Analysis Annual Meeting 2014, Denver, CO.
- 11/14 “Decision Making and Ebola”, Evans School Faculty Roundtable, University of Washington, Seattle, WA.
- 10/14 “Biotechnology and Risk Management”, Solazyme Roundtable (United States), F500, San Francisco, CA.

- 5/14 “Energy and the Environment, Quality of Life” University of Washington GPSS Faculty Panel, Seattle, WA.
- 3/14 “Risk and Emerging Technology”, National Academy of Science Forum on Risk, Moore Foundation (panel chair), Palo Alto, CA.
- 12/13 “Applying multi-criteria decision analysis to direct design of solar photovoltaics” (with Ryan Scott), Society for Risk Analysis Annual Meeting 2013, Baltimore, MD.
- 12/13 “A tool to facilitate the incorporation of metagenomic data into environmental microbial decision-making and risk analysis,” Society for Risk Analysis Annual Meeting 2013, Baltimore, MD.
- 6/13 “A SEP to Terawatt-Scale Solution-Processed Solar Cells from Earth Abundant Elements” (with Hugh Hillhouse) National Science Foundation Sustainable Energy Pathways Program Grantee meeting, Arlington VA.
- 12/12 “Perception and Measurement of Climate and Climate Impacts among the Rural Poor in Vietnam,” Society for Risk Analysis, Annual Meeting 2012, San Francisco, CA.
- 7/12 “Synthetic Biology: Regulatory Attempts to Balance Risk and Innovation” (with Kelly), World Congress on Risk 2012, Society for Risk Analysis, Sydney, Australia.
- 7/12 “Plenary Remarks: Synthetic Genomics, Risk and Governance”, World Congress on Risk 2012, Society for Risk Analysis, Sydney, Australia.
- 8/12 “Assessing the Agronomic Impact of Climate Variability and Change: Regional Climate Models, Scale and Implications for Future Study”, (with Smoliak), Joint Statistical Meeting, San Diego, CA.
- 12/11 “Assessing Climate as a Factor in Crop Yield in Sub-Saharan Africa”, Society for Risk Analysis Annual Meeting 2012, Charleston, SC.
- 9/11 “Rainfall and Crops in Subsaharan Africa - Past and Future”, Program on Climate Change, Summer Institute 2011, Friday Harbor, WA.
- 7/11 “Risk and Opportunity of Innovation”, Alfred P. Sloan Foundation, Convening on Synthetic Biology and Risk, New York, NY.
- 5/11 “Science and Policy”, Plenary Remarks to Graduate and Professional Student Senate, Science and Policy Summit, University of Washington, Seattle, WA.

- 12/10 “Perceptions and Measurements of Weather and Climate Among the Rural Poor in Ha Tinh Vietnam” SRA Annual Meeting, Salt Lake City, UT.
- 5/10 “Weather and Climate in Vietnam”, Graduate Environmental Policy Forum, University of Washington, Seattle, WA.
- 12/09 “The Evolution of Probabilistic Risk Assessment for Human Health,” SRA Annual Meeting, Baltimore MD.
- 6/09 “The Impact of the Financial Crisis on the Long-Term Challenges faced by Society,” Invited Plenary Talk, SRA Europe, 18th Annual Meeting, Karlstad Sweden.
- 4/09 “Impact of Climate Change on Pacific Northwest Hydropower” with Matthew Markoff, Seminar: Department of Statistics, University of Washington, Seattle, WA.
- 2/09 “The Dimensions of Risk Perception,” Risk Convening Workshop, Bill and Melinda Gates Foundation, Seattle, WA.
- 12/08 “SRA and the Future of Risk Analysis,” Roundtable Panel, Society for Risk Analysis 2008 Annual Meeting, Boston, MA.
- 12/08 “Risk Perception and Behavior Among the Poor: Design of Policy and Poverty Alleviation Programs,” Society for Risk Analysis 2008 Annual Meeting, Boston, MA.
- 6/08 “Numbers, pictures and words: Communication of Risk and Uncertainty,” in PCST-10 Bridges to the Future, Public Communication of Science and Technology Conference, Malmo, Sweden.
- 5/08 “Understanding and Perception of Risk” in Risk and Uncertainty: Cultural Approaches to Risk Management, A New Transatlantic Dialogue with Leaders from Germany, the United States, and Lebanon, Aspen Institute Berlin, Germany
- 4/08 Expert Roundtable: “Risk Communication”, Swiss Re, Global Dialogue Center, Zürich, Switzerland.
- 2/08 “PCB Contamination, Transport and Human Exposure in New Bedford Harbor, Massachusetts” EAWAG Seminar Series, Dübendorf, Switzerland.
- 12/07 “Libertarian Paternalism is not an Oxymoron,” Discussant to Plenary, Society for Risk Analysis 2007 Annual Meeting, San Antonio, Texas, USA.
- 11/07 “Decision Making and Preferences: What Experiments in Vietnam Tell Us About Variability Between Populations,” Institute for Environmental Decisions, ETH Zürich, Switzerland.

- 11/07 “Genetic Susceptibility to Air Pollution and Regulatory Implications - a U.S. Example“ Seminar Series, Institute for Social and Preventative Medicine, Basel, Switzerland.
- 11/07 “Preference Variability Along the Policy Chain in Vietnam,” Departement Geistes, Sozial und Staatswissenschaft (D-GESS) Colloquium, ETH Zürich, Switzerland.
- 1/07 “Impact of Remediation on PCBs in Produce Grown near New Bedford Harbor,” 4th International Conference on Remediation of Contaminated Sediments, 2007, Savannah GA.
- 12/06 “The Role of Genetic Information in Air Quality Regulation: A Decision Analytic Framework,” Society for Risk Analysis, 2006 Annual Meeting, Baltimore, MD.
- 12/06 “Bounded Rationality along the Policy Chain in Vietnam,” Society for Risk Analysis 2006 Annual Meeting, Baltimore, MD.
- 11/06 “Scientists, Stakeholders, and Collaboration in Natural Resource Management and Policy Making” Panel Chair, APPAM Annual Meeting 2006, Madison, WI.
- 10/06 “Teaching about Evolution – Politics and Education,” Forum on Dimensions of Evolution, Program on the Environment, University of Washington, Seattle, WA.
- 6/06 “Bounded Rationality along the Policy Chain in Vietnam,” 10th Biennial Behavioral Decision Research in Management Conference, Santa Monica, CA, June 15-17, 2006.
- 5/06 “The Role of Genetic Information in Air Quality Regulation – A Decision Analytic Framework,” Benefit-Cost Analysis Conference: What can we do to Improve the Use of Benefit-Cost Analysis? Talaris Center, Seattle, WA.
- 5/06 Panel on Climate Change, Northwest Center for Livable Communities, May 15, 2006, Seattle, WA.
- 12/05 “New Technology and Science into Risk Assessment: Why isn’t it making a difference?” with Elaine Faustman, Society for Risk Analysis Annual Meeting, Orlando FL.
- 10/05 “Impacts of Climate Change on Pacific Northwest Hydropower,” (w/ Matt Markoff) King Country Climate Change Conference, WA.
- 7/05 “Exposure Analysis: State of the Science and Bridges to Dose-Response, Risk Characterization and Decision Making” Society for Toxicology, Washington, DC.

- 4/05 “Perceptions of Environmental Risk and Precaution from Around the Globe” invited for President’s Washington Weekend, University of Washington, Seattle, WA.
- 4/05 “The Role of Genetic Information in Air Quality Regulation – A Decision Analytic Framework,” The Center for Study and Improvement of Regulation, Joint Seminar of University of Washington and Carnegie Mellon University.
- 12/04 “Policy Implications of Genetic Information in Regulation under the Clean Air Act: The Case of Particulate Matter and Asthmatics,” Society for Risk Analysis Annual Meeting, Palm Springs, CA.
- 6/04 “The Role of Quantitative and Precautionary Analysis in Environmental Decision Making,” (President’s Invited Lecture) The International Environmetrics Society Annual Meeting, Portland, ME.
- 12/01 Education Roundtable Invited Panelist – SRA Annual Meeting, Washington, DC.
- 6/01 “Risk Assessment – Quantitative Approaches,” (invited) Geophysical Statistics Program, National Center for Atmospheric Research, Boulder, CO.
- 5/01 “The Role and Limits of Quantitative Approaches in Decision Making,” (invited) Environmental and Societal Impacts Group Seminar, National Center for Atmospheric Research, Boulder, CO.
- 4/01 “Air Pollution and Exposure Analysis in the Slovak Republic,” (invited with co-presenter Dr. Frantiska Hrubá, Slovakia), Environmental and Societal Impacts Group Seminar, National Center for Atmospheric Research, Boulder, CO.
- 10/00 “Energy and Risk Assessment,” Physics Department, University of Colorado, Boulder, CO.
- 9/00 “Identifying Inputs for Bayesian Analysis,” (invited) Workshop on Advanced Methods for Dose-Response Assessment: Bayesian Approaches, Washington, DC.
- 6/00 “Uncertain Risk: The Role and Limits of Quantitative Analysis” International Symposium on Risk and Governance, SRA, Warrenton, VA.
- 12/98 “Accounting for Dependency Among Daily Values, in the Development of Distributions,” Society for Risk Analysis Annual Meeting 1998, Phoenix, AZ.
- 12/97 “Uncertainty Analysis - Lessons from Probabilistic Exposure Analysis,” (Invited Talk), National Academy of Science, 50th Anniversary Colloquium of the Committee on Toxicology, Washington, DC.

- 9/97 "Addressing Uncertainty in Risk Analysis," (Invited Talk), Institute for Epidemiology and Hygiene, Banska Bystrica, Slovak Republic.
- 4/97 "PCB's in Environmental Media near New Bedford Harbor-Measurements and Model Estimates" National Center for Research in Statistics and Environment, Seattle, WA.
- 12/96 "Effects of a Perceived Risk on Property Values During a Transient Cancer Scare: Implications for Risk Valuation and the Value of Life," Society for Risk Analysis, Annual Meeting 1996, New Orleans, LA.
- 12/96 "A Comparison of Model Estimates and Measurements of PCB Levels in Soil and Produce Near New Bedford Harbor," Society for Risk Analysis, Annual Meeting 1996, New Orleans, LA.
- 12/95 "A Critical Comparison of Environmental Exposure Factors in the Czech Republic, Slovak Republic and the US, Society for Risk Analysis, Annual Meeting 1995, Honolulu, HI.
- 9/95 "Assessment of Human Exposure to PCBs in Greater New Bedford, MA, USA," International Society for Exposure Assessment/International Society for Environmental Epidemiology, Annual Meeting, Noordwijkerhout, Netherlands.
- 12/94 "Developing Distributions for Use in Probabilistic Exposure Assessment" (Invited Session), Society for Risk Analysis, Annual Meeting 1994, Baltimore, MD.
- 10/94 "Multimedia Exposure Assessment," (Invited Talk), National Institute of Public Health Czech Republic and NIEHS, USA, Workshop on Hazardous Wastes - Exposure, Remediation, Policy, in Prague, Czech Republic.
- 4/94 "PCB Exposure in the New Bedford Community," (Invited Seminar), US Information Agency, Environmental Protection Agency and Sustainable Economic Development in the United States, Boston, MA.
- 4/94 "Harvard's Study of PCB Exposure in Greater New Bedford," (Invited Talk), New England Chapter, Society for Risk Analysis, Boston, MA.
- 3/94 "New Approaches to Dealing with Uncertainty in Environmental Risk Assessment," (Invited Talk), Rocky Mountain Chapter, Society for Risk Analysis, Denver, CO.
- 12/93 "Exposure to PCBs in the Community Surrounding the New Bedford Superfund Site," Society for Risk Analysis, Annual Meeting 1993, Savannah, GA.
- 12/93 "Measures of Conservatism in Probabilistic Risk Assessment," Society for Risk Analysis, Annual Meeting 1993, Savannah, GA.

- 11/93 "Environmental Health Risk Assessment: A Discussion of Analytical Methods for Interpreting Model Predictions," (Invited Seminar), EBASCO, Seattle, WA.
- 11/93 "Human Exposure to PCBs from a Superfund Hazardous Waste Site" (Invited Talk), Third International Seminar on Environmental Risk Assessment, Hanyang University, Seoul, South Korea.
- 10/93 "Uncertainty in Multi-Pathway Risk Assessment - A Monte Carlo Approach to Assessing Human Health Impacts due to Municipal Waste Incineration," (Invited Talk), International Workshop on Environmental Health Risk Assessment, Yonsei University, Seoul, South Korea.
- 8/93 "The Monte Carlo Approach to Human Health Risk Assessment - Sensitivity to Assumptions about Gas/Particle Partitioning," (Invited Talk), Oregon Graduate Institute, Portland, OR.
- 4/93 "Choosing Input Distributions for Use in Monte Carlo Simulation," (Invited Talk), EPA/UVA Workshop, Charlottesville, VA.
- 12/92 "Sensitivity of Monte Carlo Results to Model Assumptions: MSW Incineration," Society for Risk Analysis, Annual Meeting 1992, San Diego, CA.
- 12/91 "The Value of Animal Test Information in the Context of Environmental Control Decisions," Society for Risk Analysis, Annual Meeting 1991, New Orleans, LA.

FUNDING ACTIVITY

"Collaborative Research: GCR: Managing Future Risk of Increasing Simultaneous Megafires," National Science Foundation. (Cullen PI), awarded \$1,930,000 (October 2020 - September 2025).

"Integrated Vulnerability Assessment for West Coast Fishing Communities, Lenfest/PEW Charitable Trusts, (Cullen Co-PI, Levin PI), awarded \$300,000 (2019-2021)

"Digital Atlas of Agricultural Adaptation," International Center for Tropical Agriculture and the Bill and Melinda Gates Foundation, (Cullen PI) awarded \$40,000 (2019-2020)

"California's groundwater future: Relating subsidence and consumption in the Central Valley" ROSES NASA Applied Sciences: Water Resources, (Cullen PI), awarded \$150,000 (2019-2021)

"Improving Loading, Ticketing and Operations for the WSF Triangle Route" Washington Department of Transportation, (Cullen PI), awarded \$75,000 (2018)

“Wildfire - Future Synchronicity and Impact on Management Decision Making”, Computational & Information Systems Laboratory (CISL), National Center for Atmospheric Research (NCAR), (Cullen PI), awarded \$250,000, (2017-2020).

“Value of Surveillance Information for Disease Modeling”, (Cullen PI), Institute for Disease Modeling, Global Good, Intellectual Ventures, awarded \$15,000 (2017-2018).

“NSF SEP: Sustainable Pathway to Terawatt-Scale Solution-Processed Solar Cells from Earth Abundant Elements,” (Cullen co-PI), Sponsored by NSF Sustainable Energy Pathways, awarded \$1,900,000, (2012-2017).

“World Congress on Risk 2012”, (Cullen PI), Alfred P. Sloan Foundation, awarded \$117,000, (2012).

“Proposal No: 1156295, NSF Workshops, Society for Risk Analysis World Congress on Risk 2012, (Cullen PI), awarded \$75,000, (2012).

“Improving Understanding of Cognition and Institutions for Poverty Alleviation Programmes and Human Security,” Sponsored by the International Fund for Agricultural Development, (Anderson and Cullen, co-PIs) awarded \$200,000 (2006-2009).

“Dimensions of Risk and Discount Rates in Financial and Health Risk Decisions,” Royalty Research Fund, University of Washington, (Anderson and Cullen, co-PIs), 2005, awarded \$38,000.

“Impact of Climate Change on Pacific Northwest Hydropower,” University of Washington Transition Program, (Cullen, PI), 2004, awarded \$19,000.

“Investigation of Spatial and Temporal Variation of Air Toxics in the Seattle Area,” Washington State Department of Ecology, (Liu and Cullen Co-PIs), 2002, awarded \$35,374.

“Geographic Information Systems and Child Health,” US Environmental Protection Agency, Health Effects Research Laboratory, Research Triangle Park, (Cullen, PI), 2001, awarded \$30,000.

“Climate Information Variability in Costa Rica,” National Research Center for Statistics and the Environment,” (Cullen, PI), 2001, awarded \$4000.

US Environmental Protection Agency, National Research Center for Statistics and Environment, Cooperative Agreement, (Cullen, co-PI) 1997-2001, awarded \$5,380,000.

Joint Fund for US-Czech-Slovak Science and Technology, (Cullen, PI), 1995-1998, awarded \$35,000.

“Agricultural Modeling for Watershed Management, US Environmental Protection Agency Region X, grant #119141, (Cullen, PI), 1999, awarded \$10,000.

Evans School Faculty Research Seed Grant, (Cullen, PI), 1999, awarded \$1000.

Graduate School of Public Affairs, University of Washington, Diversity Initiative, (Cullen, PI), 1996, awarded \$2000.

National Research Council, Collaborative Research in Sectoral Policy, (Cullen, PI), 1995, awarded \$2200.

HONORS and AWARDS

Top Occupational Toxicology Journal Article, from Regulatory Toxicology and Pharmacology 2019

Computational Information Systems Laboratory Fellowship, NCAR 2017

National Science Foundation, Advanced Study Program Fellowship 2016

Health Effects Institute Visiting Fellow 2016

Daniel J. Evans School Dean’s Outstanding Teaching Award 2016

Evans Student Organization, Excellence in Instruction, 2015

Society for Risk Analysis, Distinguished Educator, 2014

Society for Risk Analysis, Richard J. Burk Service Award, 2014

Society for Risk Analysis, President 2008, Fellow 2009

Society of Toxicology, Top 10 Publication in 2008, Demonstrating the Application of Risk Assessment

Environmental Protection Agency, Special Recognition in the Field of Air Toxics, 2003

Society for Risk Analysis – Chauncey Starr Award for Contributions to the Field by a Risk Analyst Under Age 40, 2002

International Society of Exposure Analysis – Joan M. Daisey, Outstanding Young Scientist Award, 1998

UW Graduate School of Public Affairs - Excellence in Teaching Award, 1997

National Research Council COBASE Award (Czech and Slovak Republics), 1995

National Academy of Sciences, Young Investigator Program, Health Effects of Environmental Degradation in the Czech and Slovak Republics, 1993, 1994

Switzer Foundation Fellowship, 1989, 1990

Harvard Alumni Scholarship, 1989-90

U.S. EPA, National Network for Environmental Policy Studies Fellowship, 1988

U.S. Department of Health and Human Services Scholarship, 1987-89

U.S. EPA Certificate of Special Achievement, 1985

SERVICE – PROFESSIONAL COMMUNITY

US EPA, Science Advisory Board 2016-2023, (Chair 2021-2023)

National Academy of Sciences, The Future of Water Quality in Coeur d’Alene Lake, Panel 2021

William D. Ruckelshaus Center Board, 2019-2021
Public Interest Technology University Network, 2019-2021.
University Leadership Council, 2019-2021
US EPA, CASAC, Sulfur Dioxide NAAQS, 2014-2016.
Health Effects Institute, Special Committee on Unconventional Oil and Gas
Development, Subcommittee Chair (Prioritizing Research Gaps), 2014-2017.
Alfred P. Sloan Foundation, Advisory Board on Synthetic Biology, 2010-2015.
ILSI Health and Environmental Sciences Institute, Evaluating Causality in Epidemiology,
Emerging Issue Expert, 2012.
Society for Risk Analysis – Past-President 2010, President 2009, President-elect 2008,
Council 1998-2000, Exposure Assessment Group Chair.
National Academy of Science Committee on Risk Assessment and Remediation at the
Coeur d’Alene Superfund Site 2003-2005.
Society for Toxicology – Workshop on Probabilistic Risk Analysis: State of the Science
and Bridges to Dose-Response, Risk Characterization and Decision Making 2005.
Seattle Public Utility – Stormwater Rate Advisory Board 2005.
Rutgers, Bloustein School of Planning and Public Policy Methods Sequence Review
2005-2006.

Grant Review

National Science Foundation – Growing Convergence Research Program Panel
Alfred P. Sloan Foundation
Bill and Melinda Gates Foundation
National Research Council (US State Department)
National Institute of Health, Study Section Member
National Science Foundation, Decision, Risk and Management Sciences
The Cooperative Institute for Coastal and Estuarine Environmental Technology

Editorial Boards

Guest Editor and Editorial Board: *Risk Analysis*

Reviewer for the Journals:

Environmental Science and Technology
Air and Waste Management Association
Human and Ecological Risk Analysis
Risk Analysis
Communications Earth & Environment

SERVICE – UW

Department of Atmospheric Sciences, Fleagle Lecture Selection Committee 2007-present

David and Cynthia Harrison Fellowship Committee, 2016-present
 Evans School Assistant Professor Search Committee (chair) 2022-2023
 Evans School Faculty Affairs Committee 2022-2023
 Evans School Admissions Committee, 2021-2022
 Board of Deans 2019-2021
 Environmental Sustainability Committee 2020-22
 Committee Chair, Faculty Re-appointment, Xu, 2021
 Graduate School Council 2018-2019
 Executive Committee, Population Health Initiative 2016 - 2019
 Search Committee, Dean School of Public Health, 2017-2018
 Research Committee (chair), Evans School, UW, 2012-2016
 PhD Committee, Evans School, UW, 2012-2013
 Faculty Council, chair, Evans School, UW, 2012-2013, (chair-elect) 2017-2018
 Program on Climate Change, Board 2012-2013
 Faculty Affairs, Evans School, UW 2011-2012
 Faculty Senate, University of Washington, 2009-2013
 Committee Chair, Promotion and Tenure, Bostrom 2009
 Committee Member, Promotion and Tenure, Cook, 2009
 Review of Dean of School of Public Affairs 2009
 Committee Member, Diversity Oversight Committee 2009
 Review of Dean of College of Forest Resources 2006-2007
 UW Royalty Research Fund Reviewer 2005-2007
 UW Center for Workforce Development Mentor 2005-2011
 UW Earth Initiative Steering Committee, Budget Committee 2003-2007
 Review of Program on Climate Change 2005-2006
 Review of School of Marine Affairs 2005-2006
 UW Program on the Environment – Steering Committee 1999-2013
 UW Environmental Management Certificate - Steering Committee 1999-2001 and 2003-2007, Director 2001-2003, Admissions 1999-2012
 UW National Research Center for Statistics and Environment, Executive Committee 1997-2001