

Paloma I. Beamer

Curriculum Vitae

Community, Environment and Policy
Mel and Enid Zuckerman College of Public Health
University of Arizona
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CHRONOLOGY OF EDUCATION

- 2000** B.S., Civil and Environmental Engineering, University of California, Berkeley
- 2002** M.S., Civil and Environmental Engineering, Stanford University
- 2007** Ph.D., Civil and Environmental Engineering, Stanford University
Research Advisor: James O. Leckie
Dissertation: “Development of a Model to Estimate Aggregate and Cumulative Exposure and Dose in Young Children”
- 2014** Graduate Certificate, Clinical & Translational Research, University of Arizona

CHRONOLOGY OF EMPLOYMENT

- 1997-1999** *Instructor, Tutor*, Mathematics, Engineering, and Science Achievement (MESA), University of California, Berkeley
- 1997** *Intern*, US-Mexico Border Team, US Environmental Protection Agency, Region 9, San Francisco, CA
- 1999** *Intern*, Lawrence Livermore National Laboratory, Livermore, CA
- 1999-2000** *Intern*, Eisenberg, Olivieri & Associates, Oakland, CA
- 2000-2007** **Stanford University**
- 2000-2007 *Research Assistant*, Exposure Research Group, Department of Civil and Environmental Engineering
- 2001-2003 *Instructor, Coordinator, Mentor*, NASA Research in Science and Engineering Program
- 2001-2004 *Teaching Assistant*, Department of Civil and Environmental Engineering
- 2005 *Lecturer*, Civil and Environmental Engineering, Stanford University
- 2004** *Intern*, ALZA Corporation, Menlo Park, CA
- 2007-present** **University of Arizona**
- 2007-2014 *Assistant Professor*, Division of Community, Environment and Policy, College of Public Health

2007-present	<i>Associate Investigator</i> , Cancer Prevention and Control, Arizona Cancer Center
2009-present	<i>Full Member</i> , Southwest Center for Environmental Health Sciences
2009-2014	<i>Assistant Professor</i> , Chemical and Environmental Engineering (NTE)
2010-present	<i>Affiliated Faculty</i> , Mexican American & Raza Studies Department
2014-present	<i>Associate Professor</i> , Division of Community, Environment and Policy, College of Public Health
2014-present	<i>Associate Professor</i> , BIO5 Institute (NTE)
2014-present	<i>Associate Professor</i> , Chemical and Environmental Engineering (NTE)
2015-present	<i>Associate Scientist</i> , Asthma and Airways Disease Research Center

HONORS AND AWARDS

At previous rank:

1995-2000	<i>Regent Scholar</i> , University of California, Berkeley
1996	<i>Outstanding Freshman</i> , Hispanic Engineers and Scientists (SHPE), University of California, Berkeley
2000	<i>Kennedy Interdisciplinary Award</i> , Latin American Studies, University of California, Berkeley
2000	<i>Lifetime Achievement Award</i> , Hispanic Engineers and Scientists (SHPE), University of California, Berkeley
2000	<i>Engineer-In-Training (EIT) Certification</i> , State of California, Department of Consumer Affairs, Board for Professional Engineers, Land Surveyors and Geologists
2000-2002	<i>Dean's Doctoral Diversity Fellowship</i> , Stanford University
2000-2002	<i>Alfred P. Sloan Scholar</i> , Stanford University
2002-2004	<i>Fellow</i> , National Institute of Health Graduate Training Program in Biotechnology, Stanford University
2004	Student Research Poster Competition, 1 st Place, International Society of Exposure Analysis (ISEA) Conference, Philadelphia, PA
2005	Student Research Poster Competition, 2 nd Place, Engineering Opportunity Job Fair, Stanford University
2005	<i>Graduate Student of the Year Award</i> , Stanford Society of Chicano/Latino Engineers and Scientists (SHPE)
2006	Selected for Graduate Institute at the National Technical Career Conference for Society of Hispanic Engineers (SHPE), Orlando, FA
2006	Selected as one of 55 attendees from a group of over 730 applicants to attend the NSF ADVANCE Workshop on Negotiating the Ideal Faculty Position at Rice University

At current rank:

- 2010** *Travel Award*, Hispanic/Latino Immigrant Health and Faculty Development Workshop, Hispanic-Serving Health Professions Schools
- 2010** *Young Investigator Research Award*, Yuma Friends of Arizona Health Sciences Center, University of Arizona.
- 2011** *Mentored Quantitative Research Development Award (K25)*, National Heart, Lung and Blood Institute, National Institutes of Health
- 2011** *2010 Scientific Technological Achievement Award*, Level I, United States Environmental Protection Agency
- 2012** *Award for Excellence in Research*, Mel and Enid Zuckerman College of Public Health, University of Arizona
- 2012** *“40 under 40” Award Recipient*, Arizona Daily Star (newspaper) and Tucson Hispanic Chamber of Commerce
- 2013** Nominee for *Award for Excellence in Teaching*, Mel and Enid Zuckerman College of Public Health, University of Arizona
- 2014** *Emerging Investigator*, Themed Issue, Environmental Science: Processes & Impacts, Volume 16, Issue 6.
- 2015** *Public Voices Fellow*, The OpEd Project, Women’s Foundation of Southern Arizona

SERVICE/ OUTREACH (limited to period in rank)

Local/State Outreach

Local/State Service Contributions:

- 2015** Peer Review, Arizona Cooperative Extension publication
- 2015 – present** Member, Environmental Quality Advisory Council, Pima County Department of Environmental Quality

Community Presentations:

- 2011** Speaker, Green Valley Respiratory Rally, American Lung Association, “Tools for Understanding Air Quality and COPD”
- 2011** Participant, A Community Health Talk, Presented by Garden Roots, Dewey-Humboldt, AZ
- 2011** Speaker, “Beyond the Curves” Community Seminar Series, “Is it Toxic?: Trials and Tribulations of Risk Assessment.”
- 2011** Speaker, Pima Association of Governments, Air Quality Subcommittee Meeting, “Children’s Health Problems and Proximity to Roadway Diesel Emissions.”
- 2013** Speaker, Pima Association of Governments, Southwest Air Quality Forum, “Lower Respiratory Illnesses and Diesel Exposure in Tucson.”
- 2014** Speaker and Lab Tour for students from the Western Institute for Leadership Development, charter high school, Tucson, Arizona.

Local Media Interviews:

- 2010** Article in *Arizona Daily Star*, written by Elena Acoba, Arizona Daily Star, “Crop gardeners shift to spring planting,” January 31, 2010.
- 2011** Front page lead article in *Arizona Daily Star*, written by Tony Davis, “UA Study: Diesel exhaust here linked to childhood wheezing,” September 27, 2011
- 2011** KOLD News 13 interview with Barbara Grijalva, “UA scientist’s work aimed at reducing childhood asthma,” November, 2, 2011.
- 2011** Featured in *Inside Tucson Business*, “People in Action” for US EPA Award, November 11, 2011.
- 2011** KOLD News 13 interview with Chris Holmstrom, “Bottled water over tap for Latino community in Nogales,” November 22, 2011.
- 2012** KOLD News 13 interview with Barbara Grijalva, “UA testing breast milk for cancer-causing solvent,” July 30, 2012.
- 2012** Featured in *Arizona Daily Star*, “Honorees named for 40 Under 40”, December 10, 2012 and “2012 Class Includes Business, Non-Profit Leaders,” December 14, 2012.
- 2013** Featured in *Green Valley News* article by Kitty Bottemiller, “Poor Air Quality Kicks up Loads of Problems,” May 30, 2013.
- 2014** Article in *Arizona Daily Star*, written by Stephanie Innes, “Cavities again? Blame the Tucson water system ...,” November 2, 2014.
- 2015** Included in “UA Experts Can Offer Expertise on Issues Related to Mining Spills”, published by University Relations, August 13, 2015.
- 2015** Article in *The Voice* published by the Arizona Farm Bureau and written by Julie Murphee, “Arizona Agriculture asks, is EPA Really Competent to Keep Our Water Clean?,” August 19, 2015.
- 2015** Project featured in *Navajo Times* article by Sunnie Clahchischiligi and Cindy Yurth, “Shiprock approves university study on San Juan,” August 30, 2015.
- 2016** Featured in article written by Alondra Harris and other UA EHS-TRUE undergraduates that participated in sampling on the Navajo Nation, “Water, Hogans and Rocks,” <https://ubrp.arizona.edu/water-hogans-and-rocks/>.
- 2016** Interview with Donovan Quintero for “Researchers measuring effects of mine spill,” in *Navajo Times*, August 18, 2016.

National/ International Outreach

National/International Service Contributions:

- 2008-2010** Academic Councilor, Board of International Society of Exposure Science
- 2008-present** Student/New Researcher Committee, International Society of Exposure Science
- 2011-present** External Advisor, Children’s Non-Dietary Exposures and Mouthing Frequency of Soil and Dust, Taipei Medical University, Research Project
- 2011** Technical Organizing Committee for Annual Conference in Baltimore, MD, International Society of Exposure Science

- 2011-2012** Organizing Committee, National Latino Cancer Summit, Turning the Spotlight on the Environment: From Science to Social Justice, in San Francisco, CA
- 2011** Member, US EPA Delegation that accompanied the Assistant Administrator for the Office of International and Tribal Affairs to Taiwan, as part of the Technical Cooperation in the Field of Environmental Protection under the Agreement between the TECRO and the AIT. June 13-17.
- 2014-present** Member, Board of Scientific Counselors Chemical Safety for Sustainability Subcommittee, US Environmental Protection Agency
- 2015-present** Member, Investigation Team, Binational Border Health Network, CONACyT Thematic Network
- 2015** Expert, EDF's Chemical Detection Initiative: An expert convening to evaluate research proposals. Environmental Defense Fund. Meeting held in Washington, D.C.

Grant Reviewer

- 2014** Southern California NIOSH Education and Research Center, Pilot Projects
- 2014** Vidi Programme, The Netherlands Organisation for Health Research and Development
- 2015** US Environmental Protection Agency, EPA STAR (Air Pollution Monitoring for Communities)
- 2016** National Institutes of Health, Infectious, Reproductive, Asthma and Pulmonary (IRAP) Conditions Study Section, *Ad-hoc Reviewer*

Peer Reviewer for the following journals:

- 2005-present** *Journal of Exposure Science and Environmental Epidemiology*
- 2007, 2015** *Environmental Research*
- 2008** *Risk Analysis*
- 2009** *American Journal of Industrial Medicine*
- 2009** *Building and Environment*
- 2010** *Indoor Air*
- 2011** *Regulatory Toxicology & Pharmacology*
- 2012** *Science of the Total Environment*
- 2012** *Journal of the Air & Waste Management Association*
- 2012, 2014** *Environment International*
- 2012** *Environmental Health Perspectives*
- 2014, 2015** *American Journal of Respiratory and Critical Care Medicine*
- 2014** *Thorax*
- 2015** *Journal of Occupational and Environmental Hygiene*
- 2015** *Journal of Environmental Management*
- 2015** *Environments*

2015 *Journal of Allergy and Clinical Immunology*

2015 *Environmental Research Letters*

External Peer Reviewer for the following government documents:

2010 United States Environmental Protection Agency, *Exposure Factors Handbook*, 2010

2011 United States Environmental Protection Agency, *America's Children and the Environment, Third Edition*

2013 United States Environmental Protection Agency, *TRW Recommendations for Sieving Soil and Dust Samples at Lead (Pb) Sites for Assessment of Incidental Ingestion*

2014 United States Environmental Protection Agency, *An EPA Pilot Study Evaluating Personal, Housing and Community Factors Influencing Children's Potential Exposures to Indoor Contaminants at Various Lifestages – A Research Protocol*

2016 United States Environmental Protection Agency, *Guidelines for Exposure Assessment*

National/International Presentations:

2011 Participant, Roundtable Discussion on Risk Assessments and Related Science at the Taiwan-USA International Workshop on Children's Risk Assessment.

2011 Co-presented (with Shannon Newton), "Exposure and Control of Ten High Priority MSHA Contaminants in Metal Mining" at the 7th Annual Joint Western Regional Mine & Safety Health Conference, Henderson, Nevada. This included development of information pamphlets for each contaminant.

2011 Speaker, "Grant Writing and Funding Opportunities for New Researchers," workshop at International Society of Exposure Science conference, Baltimore, MD.

2013 Panelist, Plenary Session on Exposure Science. Invited to discuss "Building the Next Generation of Exposure Scientists," Joint Conference for International Society of Exposure Science, International Society of Environmental Epidemiology, and International Society of Indoor Air Quality, Basel Switzerland.

2013 Loh, M., Beamer, P., Klimecki, W. "The Metals Exposure Study in Homes (MESH): Examining children's exposure to metals near the Iron King Superfund Site." Part of Mining Site Metals: Exposure Pathways and Bio-Assays. Webinar for NIEHS Superfund Research Program in conjunction with EPA's CLU-IN.

2015 Panelist, "Succeeding In Academia", Gates Millennium Scholars Graduate School Institute, Portland, OR.

National/International Media Interviews:

2009 News item in American Chemical Society News Service Weekly PressPac, "Answer to the age-old lament: where does all this dust come from?," October 28, 2009. Selected from ACS' 34 peer-reviewed journals.

2009 Article for *Live Science* with Rachael Rettner, "Origin of Household Dust Pinned Down," November 12, 2009.

2009 National Public Radio interview with Joe Palca, "The Dirt on Dust," November 16, 2009.

- 2010** Article for *TIME* with Jeffrey Kluger, “What’s in Household Dust? You Don’t Want to Know,” February 23, 2010.
- 2010** Article for *Discovery News* with Cristen Conger, “Dust Bunnies Tainted with Toxins?”, March 5, 2010.
- 2010** Health and Human Services Health Beat interview with Ira Dreyfuss, “Tracking the source of dust,” US Department of Health and Human Services, March 8, 2010.
- 2011** Featured in Association of Schools of Public Health Friday Letter, “Arizona Researcher Awarded Grant to Study Link between Pollutants and Asthma,” November 4, 2011.
- 2011** Featured in Association of Schools of Public Health Friday Letter, “Arizona Researchers Investigate Water Use in Border Community,” November 11, 2011.
- 2012** Article for *Arizona Republic* and *USA Today* with Shaun McKinnon, “a battle to breathe,” January 29, 2012.
- 2012** Superfund Basic Research Program, Research Brief #214, “UA SRP Researchers Report on TCE in Breast Milk,” September 7, 2012.
- 2012** Article for *Chemical & Engineering News* with Janet Pelley, “Carcinogenic Solvent Measured in Breast Milk”, August 3, 2012.
- 2012** Featured in Association of Schools of Public Health Friday Letter, “Arizona Finds Trichloroethylene in Breast Milk,” September 21, 2012.
- 2012** Article for *Environmental Factor* with Sarah Wilkinson, “Exploratory study first to quantify TCE in breast milk”, National Institute of Environmental Health Sciences, October 2012.
- 2015** National Radio of Slovenia interview with Peter Mocnik, “A Good Question!”, March 21, 2015.
- 2015** Health expert that helped with “UA SRP Responds Quickly to Inform Communities Near Colorado Mine Spill” that was featured in NIEHS Partnerships for Environmental and Public Health Newsletter (Vol. 6, Issue 10).
- 2015** Author/co-author of 4 out of 34 peer-reviewed included in the annotated bibliography from the NIEHS report “Advancing Environmental Justice.” This report highlights NIEHS funded research addressing environmental health disparities between 1998-2012.
- 2016** Featured in Association of Schools of Public Health Friday Letter, “Arizona Researchers to Study Environmental Effects on Navajo Lands a Year after Gold King Mine Spill,” March 31, 2016.
- 2016** Interview with Mary Shinn for “Navajo researcher leads search for answers about contamination: Team identified 40 possible ways people could be exposed,” *Durango Herald*, August, 5, 2016.
- 2016** Panelist on *Native American Calling*, “Friday, August 5, 2016 –The Gold King Mine spill: One year later.” <http://www.nativeamericacalling.com/friday-august-5-2016-gold-king-mine-spill-one-year-later/>

Professional Memberships:

- 1997-present** Society of Hispanic Professional Engineers, *Lifetime Member*
- 2006-present** International Society of Exposure Science
- 2006-present** Society for the Advancement of Chicanos and Native Americans in Science, *Lifetime Member*
- 2007-present** Association of Women Faculty, University of Arizona
- 2009-present** American Chemical Society (Environmental Chemistry and Chemical Health & Safety Divisions)
- 2010-present** International Society of Children’s Health in the Environment, *Founding Member*
- 2011-present** International Society for Indoor Air Quality and Climate
- 2011-present** American Thoracic Society (Environmental and Occupational Health Assembly)

Division of Community, Environment & Policy Committees and Service

- 2008-2015** Member, Admissions Committee, Environmental Health Sciences Section
- 2008-2011** Member, Annual Peer Review Committee
- 2009** Member, Faculty Search Committee, Environmental Health Sciences Section
- 2009-2015** Environmental Health Sciences Recruitment Materials, help coordinate and draft recruitment flyers and website development

Department of Community, Environment & Policy Committees and Service

- 2015-2016** Member, Faculty Search Committee, Environmental Health Sciences Program
- 2015-present** Member, Admissions Committee, Environmental Health Sciences Program

Mel and Enid Zuckerman College of Public Health Committees and Service

- 2007-2008** Recruitment for the College of Public Health at minority student conferences in Washington, D.C., Phoenix and Tucson
- 2010-2013** Member, Research Advisory Committee
- 2012-2014** Member, Committee on Inclusion and Equity
- 2012** Laboratory Safety, developed and coordinated first College-wide laboratory safety training and laboratory cleaning as well as created the laboratory worker database
- 2013** Joint presentation with Kacey Ernst, “Trial and Tribulations of the New Researcher: The things you should know about preparing grants that you didn’t learn in grad school.” Faculty Development Lunch.
- 2014-2016** Co-Chair, Committee on Inclusion and Equity
- 2014** Member, Search Committee, Office of Student Affairs (two positions, undergraduate advisor, MS/PhD Advisor)
- 2015** Recruitment for the College of Public Health at Gates Millennium Scholars Graduate Institute, Portland, OR

- 2015** Joint presentation with Kacey Ernst, “Mentorship Experiences.” Faculty Development Lunch.
- 2016** Chair, Committee on Inclusion and Equity

University of Arizona Committees and Service

- 2007-2013** Member, Advisory Board, Latino/a Association of Graduate Students in Engineering and Science
- 2008-2009** Member, Institutional Chemical Safety Committee
- 2008-present** Member, Dean Carter Binational Center for Environmental Health Sciences
- 2010** Grant Reviewer, Water Sustainability Program
- 2010-present** Member, Institute for the Environment
- 2011-present** Member, University Committee for Monitoring Labor & Human Right Issues
- 2012** Grant Reviewer, Southwest Environmental Health Sciences
- 2013** Grant Reviewer, Community Connection Grants, Office of the Vice President for Research
- 2014** Grant Reviewer, Water, Environment, and Energy Solutions
- 2014** Member, Arizona Health Sciences Center Diversity Workgroup
- 2015-present** Member, Advisory Board, Environmental Health Sciences Transformative Research Undergraduate Experience
- 2015-present** Member, Search Committee, Director for the Center of Toxicology and the Director of the Southwest Environmental Health Sciences Center (SWEHSC)

University of Arizona Service Presentations

- 2008** Graduate School Panel, McNair Program
- 2008** Leadership Lunch, Latino Association of Graduate Students in Science and Engineering, sponsored by College of Optical Sciences
- 2008** “Topics on Environmental and Occupational Health: Globally and Nationally.” Brown bag lunch, Global Health Student Alliance
- 2009** Panel for GEM (Graduate Engineering Minority) Grad Lab, Biomedical Engineering Program
- 2010** “My Life in the Science World.” Las Pláticas at Chávez, Panel hosted by Chicano/Hispano Student Affairs Office
- 2011** “Parenthood in Academia.” Panel hosted by the ADVANCE program.
- 2015** Joint presentation with Kacey Ernst, “Faculty Resilience,” UA Programs to Increase Diversity Among Individuals Engaged in Health-Related Research (PRIDE NHLBI R25).

PUBLICATIONS/CREATIVE ACTIVITY

Chapters in scholarly books and monographs

- 2011** Beamer, P. “Pesticide Exposure among Farmworkers and their Children in the United States.” Peer-reviewed book chapter in *Pesticides in the Modern World*. Edited by Margarita Stoytcheva. InTech: Croatia.

Refereed Journal Publications

- 2004** AuYeung, W., Canales, R.A., Beamer, P., Ferguson, A.C., and J.O. Leckie. “Young Children’s Mouthing Behavior: An Observational Study via Videotaping in a Primarily Outdoor Residential Setting.” *J Children’s Health*, 2 (3-4), pg. 271-295.
- 2005** Ferguson, A.C., Canales, R.A., Beamer, P., AuYeung, W., Key, M., Munninghoff, A., Lee, K.T., Robertson, A., and J.O. Leckie. “Video methods in the quantification of children’s exposures.” *J Exp Anal Environ Epidemiol*, 16: 287-298.
- 2006** AuYeung, W., Canales, R.A., Beamer, P., Ferguson, A.C., and J.O. Leckie. “Young children’s hand contact activities: An observational study via videotaping in primarily outdoor residential settings.” *J Exp Sci Environ Epidemiol*, 16: 434-446.
- 2007** Xue, J., Zartarian, V., Moya, J., Freeman, N., Beamer, P., Black, K., Tolve, N., and S. Shalat. “A Meta-Analysis of Children’s Hand-to-Mouth Frequency Data for Estimating Non-Dietary Ingestion Exposure.” *Risk Analysis*, 27(2): 411-420.
- *2008** Beamer, P., Key, M.E., Ferguson, A.C., Canales, R.A., AuYeung, W., and J.O. Leckie. “Quantified Activity Pattern Data from 6-to-27-Month-Old Farmworker Children for Use in Exposure Assessment.” *Environ Res*, 108: 239-246. PMID: 18723168.
- 2009** Layton, D.W., and P. Beamer. “Migration of Contaminated Soil and Airborne Particulates to Indoor Dust.” *Environmental Science & Technology*, 43(21): 8199-8205. PMID: 19924944.
- 2009** Beamer, P., Canales, R. A., Bradman, A., and J. O. Leckie. “Farmworker children's residential non-dietary exposure estimates from micro-level activity time series.” *Environ International*, 35: 1202-1209. PMID: 19744713.
- *2009** Beamer, P., Canales, R.A., and J.O. Leckie. “Developing Probability Distributions for Transfer Efficiencies for Dermal Exposure.” *J Exp Sci Environ Epidemiol*, 19: 274-283. PMID: 18385671.
- 2010** Xue, J., Zartarian, V., Tolve, N., Moya, J., Freeman, N., AuYeung, W., and Beamer, P. “A Meta-Analysis of Children’s Object-to-Mouth Frequency Data for Estimating Non-Dietary Ingestion Exposure.” *J Exp Sci Environ Epidemiol*, 20: 536-545. PMID: 19773815
- 2012** Beamer, P., Luik, C.E.** , Canales, R.A., Leckie, J.O. “Quantified Outdoor Micro-activity Data for Children Aged 7-12 Years Old.” *J Exp Sci Environ Epidemiol*, 22:82-92. PMID: 21989500.
- 2012** Beamer, P.I., Canales, R.A., Ferguson, A.C., Leckie, J.O., Bradman, A. Relative Pesticide and Exposure Route Contribution to Aggregate and Cumulative Dose in Young Farmworker Children. *Int J Environ Res Public Health*, 9: 73-96. PMID: 22470279.
- 2012** Beamer, P.I., Elish, C.A.** , Roe, D.J., Loh, M.M., Layton, D.W. Differences in Metal Concentration by Particle Size in House Dust and Soil. *J Environ Monit*, 14(3):839-44. PMID: 22245917.
- 2012** Beamer, P.I., Luik, C.E.** , Abrell, L., Campos, S.⁺, Martinez, M.E., Saez, A.E. “Concentration of Trichloroethylene in Breast milk and Household Water from Nogales, Arizona.” *Environ Sci Technol*, 46(16): 9055–9061. PMID: 22827160.

- 2013** Ramirez-Andreotta, M.D.** , Brusseau, M.L., Beamer, P., Maier, R.M. “Home Gardening near a Mining Site in an Arsenic-Endemic Region of Arizona: Assessing Combined Arsenic Exposure, Dose and Risk via Ingestion of Home Garden Vegetables, Soils and Potable Water.” *Sci Tot Environ*, Volumes 454–455: 373–382. PMID: 23562690.
- 2013** Sugeng, A.J.** , Beamer, P.I., Lutz, E.A., Rosales, C.B. “Hazard-Ranking of Agricultural Pesticides for Chronic Health Effects in Yuma County, Arizona.” *Sci Total Environ*, Volumes 463–464:35–41. PMID: 23783270.
- 2014** Beamer, P.I., Sugeng, A.J.** , Kelly, M.D.** , Lothrop, N., Klimecki, W., Wilkinson, S.T., Loh, M. “Use of dust fall filters as passive samplers for concentrations in air for communities near contaminated mine tailings.” *Environmental Science: Processes & Impacts. Emerging Investigators Special Issue*. 16(6): 1157-1536. PMID: 24469149; PMC: 4038653.
- 2014** Tsou, M.C.** , Ozkaynak, H., Beamer, P., Dang, W., Chien, L.C. “The mouthing activities data for children aged 7 to 35 months old in Taiwan.” *Journal of Exposure Science and Environmental Epidemiology*, Advance online publication, 16 July 2014; doi:10.1038/jes.2014.50.
- 2015** Beamer, P.I., Plotkin, K.R.** , Gerba, C.P., Sifuentes, L., Koeing, D.W., Reynolds, K.A. “Risk Modeling of Human Viruses on Hands in a Office Workplace Using Micro-Activity Data.” *Journal of Occupational and Environmental Hygiene*. 12:4, 266-275.
- 2015** Lothrop, N., Wilkinson, S.T., Verhougstraete, M., Sugeng, A.** , Loh, M.M., Klimecki, W., Beamer, P.I. “Home Water Treatment Habits and Effectiveness in a Rural Arizona Community.” *Water*, 7(3), 1217-1231.
- 2015** Beamer, P.I., Lothrop, N.** , Stern, D.A., Billheimer, D., Wright, A.L., Martinez, F.D. “Increased wheezing risk associated with diesel exposure among children of younger mothers.” *Eur Respir J*, 46: 853–855.
- 2015** Beamer, P.I., Lothrop, N.** , Lu, Z., Ascher, R.** , Stern, D., Billheimer, D., Wright, A.L., and Martinez F.D. “Spatial Clusters of Child Lower Respiratory Illnesses Associated with Community-Level Risk Factors.” *Pediatric Pulmonology*, DOI: 10.1002/ppul.23332
- 2015** Chien, L.C., Tsou, M.C.** , Hsi, H.C., Beamer, P., Bradham, K., Hseu, Z.Y., Jien, S.H., Jiang, C.B., Dang, W. Özkanak, H. Soil ingestion rates for children under 3 years old in Taiwan. *J Expo Sci Environ Epidemiol*, doi:10.1038/jes.2015.61.
- 2016** Reynolds, K.A., Beamer, P.I., Plotkin, K.R.** , Sifuentes, L., Koeing, D.W., Gerba, C.P. “The Healthy Workplace Project: Reduced Viral Exposure in an Office Setting.” *Arch Environ Occup Health*, 71(3): 157-162.
- 2016** Loh, M., Sugeng, A.** , Lothrop, N.** , Klimecki, W., Cox, M., Wilkinson, S.T., Lu, Z., Beamer, P.I. Multimedia Exposures to Arsenic and Lead for Children Near an Inactive Mine Tailings and Smelter Site. *Environmental Research*, Volume 146, 331–339.
- 2016** Ramirez-Andreotta, M.D., Brody, J.G., Lothrop, N.** , Loh, M., Beamer, P.I., Brown, P. “Reporting Back Environmental Exposure Data and Free Choice Learning.” *Environmental Health*, doi: 10.1186/s12940-015-0080-1.
- 2016** Beamer, P.I., Klimecki, W.T., Loh, M., Van Horne, Y.O.** , Sugeng, A.J.** , Lothrop, N.** , Billheimer, D., Guerra, S., Lantz, R.C., Canales, R.A., Martinez, F.D. “Association of Children’s Urinary CC16 Levels with Arsenic Concentrations in Multiple Environmental Media.” *Int J Environ Res Public Health*, 13, 521.
- 2016** Carr, T.F., Beamer, P.I., Rothers, J., Stern, D.A., Gerald, L.B., Rosales, C.B., Van Horne, Y.O.** , Pivniouk, O., Vercelli, D., Halonen, M., Gameros, M.⁺ , Martinez, F.D., Wright, A.L.

“Prevalence of Asthma in School Children on the Arizona-Sonora Border.” *Journal of Allergy and Clinical Immunology: In Practice*, <http://dx.doi.org/10.1016/j.jaip.2016.07.001>.

- 2016** Ramirez-Andreotta, M.D., Brody, J.G., Lothrop, N.**, Loh, M., Beamer, P.I., Brown, P. “Improving Environmental Health Literacy and Justice through Environmental Exposure Results Communication.” *Int J Environ Res Public Health*, 13, 690.

*Indicates articles primarily from dissertation

** Indicates student author

+ Indicates community author

Refereed Publications in Conference Proceedings

- 2002** Beamer, P., Castaño, A., and J.O. Leckie. “Vertical Profile Particulate Matter Measurements in a California Day Care.” *Proceedings of the Indoor Air Conference*, Monterey, CA.
- 2011** Beamer, P., Kelly, M.**, Sugeng, A.**, Layton, D.W. Use of house dust and soil ratios to prioritize elements for future air quality investigations. *Proceedings of the Indoor Air Conference*, Austin, TX.

** Indicates student author

Technical Reports

- 2011** Gerba, C.P., Beamer, P., Fankem, S.L.M., Maxwell, S., Reynolds, K., Plotkin, K.**, Sifuentes, L.Y., and Tamimi, A.H. “Workplace Wellness Intervention Study.” Submitted to Kimberly Clark.

** Indicates student author

Editorials

- 2016** Beamer, P. “Other worries in addition to lead in the water.” *The Hill: Congress Blog*. February 18, 2016. <http://thehill.com/blogs/congress-blog/energy-environment/269769-other-worries-in-addition-to-lead-in-the-water>
- 2016** Beamer, P., Chief, K., Borrero, N., Rivera, B. “‘Water Is Our Life’: How a Mining Disaster Affected the Navajo Nation.” *Truth-Out, News Analysis*, May, 16, 2016. <http://www.truth-out.org/news/item/36049-water-is-our-life-how-a-mining-disaster-affected-the-navajo-nation>
- 2016** Beamer, P. “Why You Should Display Your Diploma.” *Motto*, from the Editors of Time, May 16, 2016. <http://motto.time.com/4330143/hang-up-your-diploma/>
- 2016** Beamer, P., Muñoz, K. “Your Coworker May Be Concealing Her Multiple Sclerosis.” *Women’s E-News*, August 3, 2016. <http://womensnews.org/2016/08/your-coworker-may-be-concealing-her-multiple-sclerosis/>

Refereed Published Abstracts

- 2002** Beamer, P., Canales, R., and J.O. Leckie. “Determination of Probability Distributions for Transfer Efficiencies.” *Epidemiology*, 13(4): S183-S183.
- 2005** AuYeung, W., Canales, R.A., Beamer, P., Ferguson, A.C., and J.O. Leckie. “Young Children's Hand Contact Activities: An Observational Study via Videotaping in a Primarily Outdoor Residential Setting.” *Epidemiology*, 16(5): S135-S136.

- 2006** Beamer, P., Shi, H., Ferguson, A.C., and J.O. Leckie. "Development of a Cumulative Dermal Absorption Model by Linkage to a PBPK Model for Chlorpyrifos and Diazinon." *Epidemiology*, 17(6): S246-S246.
- 2006** Shi, H., Ferguson, A.C., Beamer, P., and J.O. Leckie. "A Dermal Absorption Model Validation By Linkage to A PBPK Model for Chloroform." *Epidemiology*, 17(6): S246-S246.
- 2008** Beamer, P., Canales, R.A., Ferguson, A.C., Eskenazi, B., Leckie, J.O., Bradman, A. "Organophosphate Pesticide and Exposure Route Contribution to Aggregate and Cumulative Dose for Young Farmworker Children." *Epidemiology*, 19(6): S264-S244.
- 2008** Beamer, P., Canales, R.A., Ferguson, A.C., Leckie, J.O. "Development of a Cumulative and Aggregate Exposure and Dose Model for Children." *Epidemiology*, 19(6): S263-S264.
- 2008** Beamer, P., Leckie, J.O. "Development of a Cumulative and Aggregate PBPK Model for Chlorpyrifos and Diazinon." *Epidemiology*, 19(6): S262-S262.
- 2008** Beamer, P., Leckie, J.O. "Estimation of Age-Specific Physiological and Pharmacokinetic Parameters for PBPK Modeling of Children." *Epidemiology*, 19(6): S264-S245.
- 2010** Beamer, P., Ascher, R.** , Stern, D.A., Sherrill, D., Wright, A.L., Martinez, F.D. "Spatial Relation of Traffic-Related Pollutants and Early Childhood Respiratory Illnesses and Wheezing in Tucson Arizona." *Am J Respir Crit Care Med*, 181: A1897.
- 2012** Beamer, P.I., Ascher, R.** , Stern, D.A., Lu, Z., Wright, A.L., Martinez, F.D. "Spatial Cluster Analysis Of Childhood Lower Respiratory Illnesses And Diesel Exposure In Tucson, Arizona." *Am J Respir Crit Care Med*, 185: A3237.
- 2014** Beamer, P., Lothrop, N., Stern, D.A., Billheimer, D., Wright, A.L., Martinez, F.D. "Wheezing lower respiratory illnesses associated with diesel exposure in children of younger mothers." *Am J Respir Crit Care Med* 189;2014:A2440.
- 2015** Beamer, P., Guerra, S., Lothrop, N., Stern, D.A., Lu, Z., Billheimer, D., Halonen, M., Wright, A.L., Martinez, F.D. "Childhood CC16 Levels Are Associated With Diesel Exposure At Birth." *Am J Respir Crit Care Med* 191;2015:A3202.

** Indicates student author

WORK IN PROGRESS

- 2016** Beamer, P.I., Kelly, M.** , Layton, D.W. "Development and Evaluation of a Modeling Framework for Transport of Soil Contaminants to the Indoor Environment." In preparation.
- 2016** Victory, K.R.,** Cabrera, N.L., Larson, D.,** Reynolds, K.A., Latura, J.,⁺ Beamer, P.I. "Risks and risk perceptions related to drinking bottled water." In preparation.
- 2016** Victory, K.R.,** Cabrera, N.L., Larson, D.,** Reynolds, K.A., Latura, J.,⁺ Thompson, C.A., Beamer, P.I. "Comparison of Fluoride Levels in Tap and Bottled Water and Health Risks in a U.S.-Mexico Border Community." In preparation.
- 2016** Victory, K.R.,** Reynolds, K.A., Cabrera, N.L., Larson, D.,** Latura, J.,⁺ Burgess, J.L., Beamer, P.I. "Comparison of Chemical and Microbial Contaminants in Tap, Bottled and Vended Water in a U.S.-Mexico Border Community." In preparation.
- 2016** Beamer, P.I., Klimecki, W.T., Loh, M., Van Horne, Y.O.** , Sugeng, A.J.** , Lothrop, N.** , Billheimer, D., Guerra, S., Lantz, R.C., Canales, R.A., Martinez, F.D. "Association of Children's Urinary CC16 Levels with Arsenic Concentration in Multiple Environmental Media." Submitted to *International Journal of Environmental Research and Public Health*.

** Indicates student author

CONFERENCES / SCHOLARLY ACTIVITIES

Invited Extramural Scholarly Presentations:

At previous ranks:

- 2004** Beamer, P., Canales, R.A., Ferguson, A. C., AuYeung, W., Leckie, J. O., Bradman, A., and B. Eskenazi. "Estimation of Non-Dietary Exposure of Young Farm-Worker Children Using Micro-Level Activity Time Series and the CASE Model." Presented at the International Society of Exposure Analysis conference, Philadelphia, PA.
- 2006** Beamer, P. "Exposure Analysis: the link between toxic source and health effects. A case study of farmworker children exposure to pesticides." NIH Bridge to the Baccalaureate Seminar Series, San Francisco City College.
- 2009** Beamer, P. "Pesticide Exposure Among Farmworkers' Children." American Chemical Society Spring 2009 National Meeting, Salt Lake City, UT.
- 2010** Beamer, P. "Pesticide Exposure and Cancer Risk Among Farmworkers and their Children." National Latino Cancer Summit, San Francisco, CA.
- 2011** Beamer, P. "Activity Patterns: Collection and Uses for Risk Assessment Modeling." Conference on Human Health Risk Assessment of Soil and Groundwater Contaminated Sites. National Taiwan University Hospital, International Convention Center, Taipei, Taiwan.
- 2011** Beamer, P. "Collection and Use of Activity Patterns for Risk Assessment Modeling." Taiwan-USA International Workshop on Children's Risk Assessment. National Taipei University of Technology, Taipei, Taiwan.
- 2013** Beamer, P. "Activity Patterns: Collection and Uses for Risk Assessment Modeling (Updated)." 2013 Policies, Exposure and Risk to Babies and Children Conference. Taipei Medical University, Taiwan.

At current rank:

- 2015** Beamer, P.I., Loh, M., Lothrop, N.**, Sugeng, A.**, Wilkinson, S.T., Cox, M., and W. Klimecki. Linking Exposure & Translational Science: A Community-Engaged Project near a Legacy Mine. Presented at NIEHS Environmental Health Sciences Core Centers Meeting in Tucson, AZ.

** Indicates student author

Invited Intramural Scholarly Presentations:

Stanford University:

- 2005** Beamer, P., Cabrera, N.L., and J.O. Leckie. "Pesticides, Farmworkers and Their Families: A Look at the Salinas Valley." Faculty Speaker Series, Cesar Chavez Commemoration, El Centro Chicano, Stanford University.
- 2006** Beamer, P. "Pesticides Exposure Amongst Farmworkers and Their Children." Asia-US Service Learning Program, Volunteers in Asia, Stanford University.

- 2007** Beamer, P. “Pesticides in our kids: Where does it come from? Development of a model to estimate aggregate and cumulative exposure and absorbed dose in young children.” Environmental Engineering & Science Seminar Series, Stanford University.

University of Arizona:

- 2007** Beamer, P. “Pesticides in our kids? Development of a model to estimate aggregate and cumulative exposure and absorbed dose in young children.” Chemical & Environmental Engineering Seminar Series, University of Arizona.
- 2008** Lantz, R.C., Beamer, P., Blowers, P., Boitano, S., Burgess, J.L., and P. Herckes. “Environmental Health and Nanomaterials: Development of exposure analysis, toxicity tests, and predictive risk assessment methods.” SRC/SEMATECH Engineering Research Center for Environmentally Benign Semiconductor Manufacturing Seminar Series, University of Arizona.
- 2008** Beamer, P. “Monte Carlo Simulations for Exposure and Risk Assessment: Case Study Farmworkers’ Children Exposure to Pesticides.” NSF ADVANCE Data Blitz, University of Arizona.
- 2008** Beamer, P. “Environmental Health at the Border: Community-Based Risk Assessment.” Community Action Board Meeting, Canyon Ranch Center for Prevention and Health Promotion. University of Arizona.
- 2010** Beamer, P. and W. Klimecki. “Toxicant-Laden Dust in the Desert: From Exposure Modeling to Molecular Response.” Frontiers in Biomedical Research. University of Arizona.
- 2012** Beamer, P. “Lower Respiratory Illnesses and Diesel Exposure in Tucson.” Epidemiology Seminar, University of Arizona.
- 2013** Beamer, P. “Diesel Exposure and Respiratory Outcomes in the Children’s Respiratory Study,” Arizona Respiratory Center Research Conference.
- 2013** Beamer, P. “Association of wheezing lower respiratory illnesses in children with diesel exposure and younger maternal age,” Arizona Respiratory Center Investigator Annual Research Retreat.
- 2013** Beamer, P., Sugeng, A. “Outdoor Pesticide Sampling in Yuma.” Presentation to Yuma Friends of Health Sciences.
- 2015** Beamer, P. and Y. Chen. “Early origins of Chronic Respiratory Impairment associated with arsenic exposure (CRIMSON),” Arizona Respiratory Center Junior Faculty Development Retreat.
- 2015** Beamer, P. “Early origins of Chronic Respiratory Impairment Associated with Arsenic Exposure,” Pulmonary Research Conference, Department of Medicine, University of Arizona.
- 2015** Beamer, P. “Early origins of Chronic Respiratory Impairment Associated with Arsenic Exposure,” Arid Lands Seminar, University of Arizona.
- 2015** Beamer, P., Loh, M., Lothrop, N., Sugeng, A.**, Wilkinson, S.T., Cox, M., Klimecki, W. “Linking Exposure & Translational Science: A Community-Engaged Project near a Legacy Mine.” Soil, Water & Environmental Science Seminar, University of Arizona.

** Indicates student author

Peer-Reviewed Submitted Presentations:

At previous ranks:

- 2002** Beamer, P., Canales, R., and J.O. Leckie. “Determination of Probability Distributions for Transfer Efficiencies.” Presented at the International Society of Exposure Analysis conference, Vancouver, Canada.
- 2002** Beamer, P., Castaño, A., and J.O. Leckie. “Vertical Profile Particulate Matter Measurements in a California Day Care.” Presented at Indoor Air Conference, Monterey, CA.
- 2003** Beamer, P., AuYeung, W., Ferguson, A.C., Canales, R.A., and J.O. Leckie. “Time Activity Assessment of Young Farmworker Children in Salinas, California.” Presented at the International Society of Exposure Analysis conference, Stresa, Italy.
- 2003** AuYeung, W., Canales, R., Beamer, P., and J. Leckie. “Mouthing Activity of Young Children: An Observational Study.” Presented at the International Society of Exposure Analysis conference, Stresa, Italy.
- 2004** Key, M., Beamer, P., Ferguson, A.C., Canales, R.A., AuYeung, W., and J.O. Leckie. “Time Activity Assessment: Demographics of the Study Population.” Presented at the International Society of Exposure Analysis conference, Philadelphia, PA.
- 2004** Ferguson, A.C., Beamer, P., Key, M., AuYeung, W., and J.O. Leckie. “Microsoft Access Database of Micro-Level Activity Time Series (MLATS) Data for Children.” Presented at the International Society of Exposure Analysis conference, Philadelphia, PA.
- 2004** Beamer, P., Ferguson, A., Canales, R.A., AuYeung, W., Key, M. and J.O. Leckie. “Analysis of Children’s Mobility on Their Micro-Level Activity Patterns.” Presented at the International Society of Exposure Analysis conference, Philadelphia, PA.
- 2005** Beamer, P., Ferro, A.R., Canales, R.A., Ferguson, A.C., and J.O. Leckie. “Introduction to Human Exposure Analysis: a Stanford graduate engineering level course.” Presented at the International Society of Exposure Analysis conference, Tucson, AZ.
- 2005** Beamer, P., and J.O. Leckie. “Systematic verification of micro-level activity time series data to reduce uncertainty.” Presented at the International Society of Exposure Analysis conference, Tucson, AZ.
- 2005** Shi, H., Ferguson, A.C., Beamer, P., and J.O. Leckie. “Validation of a dermal absorption model by linkage to a PBPK model for TCE.” Presented at the International Society of Exposure Analysis conference, Tucson, AZ.
- 2005** AuYeung, W., Canales, R.A., Beamer, P., Ferguson, A.C., and J.O. Leckie. “Young Children's Hand Contact Activities: An Observational Study via Videotaping in a Primarily Outdoor Residential Setting.” Presented at the International Society for Environmental Epidemiology conference, Johannesburg, South Africa.
- 2006** Beamer, P., Shi, H., Ferguson, A.C., and J.O. Leckie. “Development of a Cumulative Dermal Absorption Model by Linkage to a PBPK Model for Chlorpyrifos and Diazinon.” Presented at the International Society of Exposure Analysis conference, Paris, France.
- 2006** Shi, H., Beamer, P., Ferguson, A.C., and J.O. Leckie. “A Dermal Absorption Model Validation By Linkage to A PBPK Model for Chloroform.” Presented at the International Society of Exposure Analysis conference, Paris, France.
- 2007** Beamer, P., Canales, R.A., Bradman, A., Leckie, J., and B. Eskenazi. “Correlations Between Micro-Level Activity Statistics and Non-Dietary Exposure Estimates of Young Farm-Worker Children.” Presented at the International Society of Exposure Analysis conference, Durham, North Carolina.

- 2007** Beamer, P., Leckie, J., and A. Bradman. “Estimates of Dietary Exposure for Young Mexican American Children Using Demographic Information and Publicly-Available Databases.” Presented at the International Society of Exposure Analysis conference, Durham, North Carolina.
- 2007** Xue, J., Zartarian, V., Moya, J., Tulve, N., Beamer, P., AuYeung, W., Black, K., Freeman, N., and S. Shalat.. “A Meta-Analysis of Children’s Hand-to-Mouth and Object-to-Mouth Frequency Data for Estimating Non-Dietary Ingestion Exposure.” Presented at the International Society of Exposure Analysis conference, Durham, North Carolina.
- 2008** Beamer, P., Canales, R.A., Ferguson, A.C., Eskenazi, B., Leckie, J.O., Bradman, A. “Organophosphate Pesticide and Exposure Route Contribution to Aggregate and Cumulative Dose for Young Farmworker Children.” Presented at the International Society of Exposure Analysis conference, Pasadena, California.
- 2008** Beamer, P., Canales, R.A., Ferguson, A.C., Leckie, J.O. “Development of a Cumulative and Aggregate Exposure and Dose Model for Children.” Presented at the International Society of Exposure Analysis conference, Pasadena, California.
- 2008** Beamer, P., Leckie, J.O. “Development of a Cumulative and Aggregate PBPK Model for Chlorpyrifos and Diazinon.” Presented at the International Society of Exposure Analysis conference, Pasadena, California.
- 2008** Beamer, P., Leckie, J.O. “Estimation of Age-Specific Physiological and Pharmacokinetic Parameters for PBPK Modeling of Children.” Presented at the International Society of Exposure Analysis conference, Pasadena, California.
- 2009** Beamer, P., Luik, C.E.** , Leckie, J.O. “Quantified Outdoor Micro-activity Data for Children Aged 7-12 Years Old.” Presented at the International Society of Exposure Science conference, Minneapolis, Minnesota.
- 2009** Ascher, R.M.** , Rosen, J.C., Odegaard, N., Beamer, P.I., “Potential Incidental Heavy Metal Ingestion While Using Art Pastels.” Presented at the International Society of Exposure Science conference, Minneapolis, Minnesota.
- 2009** Beamer, P.I., Kelly, M.** , Layton, D.W. “Development and Evaluation of a Modeling Framework for Transport of Soil Contaminants to the Indoor Environment.” Presented at the International Society of Exposure Science conference, Minneapolis, Minnesota.
- 2009** Vivanco, S.** , Beamer, P. “Spatial Relationship between Pediatric Asthma, Asthma Risk Factors and Diesel Pollutants.” Presented at the Annual Biomedical Research Conference for Minority Students in Phoenix, Arizona.
- 2010** Beamer, P., Ascher, R.** , Stern, D.A., Sherrill, D., Wright, A.L., Martinez, F.D. “Spatial Relation of Traffic-Related Pollutants and Early Childhood Respiratory Illnesses and Wheezing in Tucson Arizona.” Presented at the American Thoracic Society conference, New Orleans, Louisiana.
- 2011** Beamer, P., Kelly, M.** , Sugeng, A.** , Layton, D.W. Use of house dust and soil ratios to prioritize elements for future air quality investigations. Proceedings of the Indoor Air Conference, Austin, TX.
- 2011** Sugeng, A.J.** , Beamer, P.I., Lutz, E.A., Rosales, C.B. “Pathways of Pesticides into Farmworkers’ Homes in Yuma, Arizona.” Presented at Eliminating Health and Safety Disparities at Work conference in Chicago, IL.
- 2011** Beamer, P.I., Luik, C.E.** , Abrell, L., Campos, S.⁺, Martinez, M.E., Saez, A.E. “Concentration of Trichloroethylene in Breast Milk and Household Water from Nogales, Arizona.” Presented at the International Society of Exposure Science conference, Baltimore, MD.

- 2011** Ramírez-Andreotta, M.D.**, Maier, R.M., Artiola, J.F., Brusseau, M.L., Beamer, P., Reynolds, K. “Assessing the Potential Risk of Metal(loid) Exposure from Consumption of Home Produced Vegetables Near the Iron King Humboldt Smelter Superfund Site, Dewey-Humboldt Arizona.” Presented at the International Society of Exposure Science conference, Baltimore, MD.
- 2011** Beamer, P.I., Elish, C.A.**, Roe, D.J., Loh, M.M., Layton, D.W. “Differences in metal Concentration by Particle Size in House Dust and Soil.” Presented at the International Society of Exposure Science conference, Baltimore, MD.
- 2011** Tsou, M.C.**, Chien, L.C., Ozkaynak, H., Beamer, P., Dang W. “Mouthing frequency of children under 2 years old in Taiwan.” Presented at the Society for Risk Analysis conference, Charleston, South Carolina.
- 2012** Beamer, P.I., Ascher, R.**, Stern, D.A., Sherrill, D., Lu, Z., Wright, A.L., Martinez, F.D. Association of Diesel Particulate Matter Exposure and Wheezing Lower Respiratory Tract Illnesses in Early Life. Presented at NIEHS Environmental Health Sciences Core Centers Meeting in Boston, MA.
- 2012** Beamer, P.I., Ascher, R.**, Stern, D.A., Lu, Z., Wright, A.L., Martinez, F.D. “Spatial Cluster Analysis Of Childhood Lower Respiratory Illnesses And Diesel Exposure In Tucson, Arizona.” Presented at the American Thoracic Society conference, San Francisco, CA.
- 2012** Sugeng, A.J.**, Beamer, P.I., Lutz, E.A., Rosales, C.B. “Agricultural Pesticide Hazard Ranking Schemes for Chronic Health Effects in Yuma County, Arizona.” Presented at the National Latino Cancer Summit, San Francisco, CA.
- 2012** Beamer, P., Sugeng, A.**, Lutz, E., Rosales, C. “Disparity in Spatial Distribution of Hazard Adjusted Pesticide Application Density in a US-Mexico Border Community.” Presented at the International Society of Exposure Science conference, Seattle, WA.
- 2012** Sifuentes, L., Beamer, P.I., Plotkin, K.R.**, Gerba, C.P., Koeing, D.W., Reynolds, K.A. “Risk Modeling of Human Viruses on Fomites and the Impact of a Healthy Workplace Intervention.” Presented at the International Society of Exposure Science conference, Seattle, WA.
- 2012** Sugeng, A.J.**, Beamer, P.I., Lutz, E.A., Rosales, C.B. “Characterization of Agricultural Pesticides in Farmworkers’ Homes in a U.S.-Mexico Border Community.” Presented at the International Society of Exposure Science conference, Seattle, WA.
- 2012** Chien, L., Dang, W., Özkaynak, H., Tsou, M.**, Hseu, Z., Hsi, H., Bradham, K., Beamer, P. “Overall Review of Child-specific Exposure Factors in Taiwan.” Presented at the International Society of Exposure Science conference, Seattle, WA.
- 2012** Victory, K.**, Larson, D.**, Cabrera, N., Reynolds, K., Beamer, P. “Comparison of Fluoride Levels in Tap and Bottled Water in a U.S.-Mexico Border Community.” Presented at the International Society of Exposure Science conference, Seattle, WA.
- 2012** Chien, J.L., Dang, W., Özkaynak, H., Tsou, M.**, Hseu, Z., Hsi, H., Bradham, K., Beamer, P. “Hand and Object to Mouth Contact Activities and Non-Dietary Soil and Dust Ingestion Rates for Young Children in Taiwan.” Presented at the Society for Risk Analysis conference, Seattle, WA.
- 2013** Sugeng, A.**, Klimecki, W., Beamer, P., Lothrop, N., Cox, M., Wilkinson, S., Loh, M. “Assessing Metal Exposure in the Community Surrounding the Iron King Superfund Site.” Airborne Mineral Dust Contaminants: Impact on Human Health and the Environment Conference, Tucson AZ.
- 2013** Beamer, P.I., Waltz, A.N.*, Wolf, A.M.A.⁺, Lutz, E., Betterton, E.A. “Concentration of Volatile Organic Chemicals in Small Businesses Located in a Low-Income Latino Community.” Presented

- at the Joint Conference for International Society of Exposure Science, International Society of Environmental Epidemiology, and International Society of Indoor Air Quality, Basel Switzerland.
- 2013** Beamer, P.I., Sugeng, A.J.***, Layton, D.L., Loh, M. “Use of dust fall filters as passive samplers for concentrations in air for communities near contaminated mine tailings.” Presented at the Joint Conference for International Society of Exposure Science, International Society of Environmental Epidemiology, and International Society of Indoor Air Quality, Basel Switzerland.
- 2013** Beamer, P.I., Sugeng, A.J.***, Lothrop, N., Klimecki, W., Wilkinson, S.T., Loh, M. “Airborne metal concentrations measured using passive samplers in community near contaminated mine tailings.” Presented at the Joint Conference for International Society of Exposure Science, International Society of Environmental Epidemiology, and International Society of Indoor Air Quality, Basel Switzerland.
- 2013** Sugeng, A.J.***, Beamer, P.I., Klimecki, W., Lothrop, N., Cox, M., Wilkinson, S.T., Loh, M. “Comparison of Inter-Home and Intra-Homes Variance of Arsenic in Children’s Urine for Households Near a Hazardous Waste Site.” Presented at the Joint Conference for International Society of Exposure Science, International Society of Environmental Epidemiology, and International Society of Indoor Air Quality, Basel Switzerland.
- 2013** Lothrop, N., Sugeng, A.J.***, Beamer, P.I., Klimecki, W., Cox, M., Wilkinson, S.T., Loh, M. “Relationship of Arsenic Concentration in Residential Yard Soil, Home Location, and Topography in a Community near a Superfund Site.” Presented at the Joint Conference for International Society of Exposure Science, International Society of Environmental Epidemiology, and International Society of Indoor Air Quality, Basel Switzerland.
- 2013** Loh, M., Sugeng, A.***, Lothrop, N., Klimecki, W., Cox, M., Wilkinson, S., Beamer, P. “Multimedia Exposure to Metals Near a Mine Tailings Site.” Presented at the Joint Conference for International Society of Exposure Science, International Society of Environmental Epidemiology, and International Society of Indoor Air Quality, Basel Switzerland.
- 2013** Sugeng, A.***, Beamer, P.I., Lutz, E.A., Rosales, C.B. “Hazard-Ranking of Agricultural Pesticides for Chronic Health Effects in Yuma County, Arizona.” Presented at the Joint Conference for International Society of Exposure Science, International Society of Environmental Epidemiology, and International Society of Indoor Air Quality, Basel Switzerland.
- 2013** Victory, K.***, Cabrera, N.L., Larson, D.***, Latura, J. ⁺, Reynolds, K., Beamer, P. “Risk Perception of Drinking Water Quality in a U.S.-Mexico Border Community.” Presented at Society for Risk Analysis Annual Conference, Baltimore, MD.
- 2013** Sugeng, A.***, Klimecki, W., Beamer, P., Lothrop, N., Cox, M., Wilkinson, S., Loh, M. “Assessing Metal Exposure in the Community Surrounding the Iron King Superfund Site.” Presented at Superfund Research Program Annual Meeting, Baton Rouge, LA.
- 2014** Loh, M., Sugeng, A.***, Lothrop, N., Klimecki, W., Cox, M., Wilkinson, S., Beamer, P. “Multi-media Exposure to Metals Near a Mine Tailings Site.” Presented at Society of Toxicology, Phoenix, AZ.
- 2014** Victory, K.***, Cabrera, N.L., Larson, D.***, Latura, J. ⁺, Reynolds, K., Beamer, P. “Risks and risk perceptions related to drinking bottled water.” Presented at Risk, Perception and Response Conference, Harvard University, Boston, MA.
- 2014** Lothrop, N., Wilkinson, S.T., Moreno Ramirez, D., Sugeng, A.***, Beamer, P., Loh, M. “Community engagement and research translation at the Iron King Mine and Humboldt Smelter Superfund Site in Dewey-Humboldt, Arizona.” Presented at 74th Annual Meeting of the Society

for Applied Anthropology, Session on Safety Culture in the Context of Environmental Health Sciences, Albuquerque, NM.

At current rank:

- 2014** Beamer, P., Lothrop, N., Stern, D.A., Billheimer, D., Wright, A.L., Martinez, F.D. “Wheezing lower respiratory illnesses associated with diesel exposure in children of younger mothers.” Presented at American Thoracic Society conference, San Diego, CA.
- 2014** Loh, M., Lothrop, N., Sugeng, A.**, Felix, O.**, Betterton, E., Saez, A.E., Klimecki, W., Wilkinson, S., Beamer, P. “Environmental Exposures to Children at a Legacy Mine Site.” Presented at International Society of Exposure Science, Cincinnati, OH.
- 2014** Ernst, K., Beamer, P.I. “Relationship of mosquito density and particle loading from cooking fires in Kenya.” Presented at International Society of Exposure Science, Cincinnati, OH.
- 2014** Sugeng, A.**, Canales, R., Lutz, E., Rosales, C., Beamer, P.I. “Exploring the Influence of Household and Housing Characteristics on Transport of Agricultural Pesticides into Farmworkers’ Homes.” Presented at International Society of Exposure Science, Cincinnati, OH.
- 2014** Victory, K.R.,** Reynolds, K.A., Cabrera, N.L., Larson, D.,** Latura, J., + Burgess, J.L., Beamer, P.I. “Comparison of Chemical and Microbial Contaminants in Tap, Bottled and Vended Water in a U.S.-Mexico Border Community.” International Society of Exposure Science, Cincinnati, OH.
- 2014** Sugeng, A.**, Canales, R., Lutz, E., Rosales, C., Beamer, P.I. “Using Chemical Characteristics to Explain Transport Pathways of Agricultural Pesticides from the Field into Homes.” International Society of Exposure Science, Cincinnati, OH.
- 2014** Ornelas, Y.**, Reynolds, K., Abrell, L., Grigera, S.**, Beamer, P. “Microbial and Inorganic Contamination in Private Wells along the Santa Cruz River, Arizona.” International Society of Exposure Science, Cincinnati, OH.
- 2014** Lothrop, N., Hussaini, K., Billheimer, D., Beamer, P. “Childhood Respiratory Illness Prevalence and Geographic Risk Factors in Southern Arizona.” International Society of Exposure Science, Cincinnati, OH.
- 2014** Lothrop, N., Wilkinson, S.T., Klimecki, W., Beamer, P., Sugeng, A.**, Loh, M. “Developing Community-Engaged Results Report-back Materials for an Environmental Exposure Study in a Rural Arizona Community near a Superfund Site.” International Society of Exposure Science, Cincinnati, OH.
- 2014** Sugeng, A.**, Beamer, P.I., Lothrop, N., Wilkinson, S.T., Klimecki W., Loh, M.M. “Assessing the Potential for Metals Transport into Homes Surrounding a Legacy Mining Superfund Site.” Superfund Research Program Annual Meeting. San Jose, CA.
- 2015** Beamer, P., Guerra, S., Lothrop, N., Stern, D.A., Lu, Z., Billheimer, D., Halonen, M., Wright, A.L., Martinez, F.D. “Childhood CC16 Levels Are Associated With Diesel Exposure At Birth.” American Thoracic Society, Denver, CO.
- 2015** Sugeng, A.**, Canales, R.**, Lutz, E., Rosales, C., Beamer, P. “Modeling the Transport of Agricultural Pesticides into Farmworkers’ Homes.” International Society of Exposure Science, Henderson, NV.
- 2015** Beamer, P., Loh, M., Lu, Z., Sugeng, A.**, Lothrop, N.**, Billheimer, D., Klimecki, W. “Association of Children’s Urinary CC16 Levels with Arsenic Concentrations in Multiple Environmental Media.” International Society of Exposure Science, Henderson, NV.

- 2015** Van Horne, Y.O.** , Canales, R., Lothrop, N.** , Loh, M., Klimecki, W., Sugeng, A.** , Beamer, P. “Influence of household and housing factors on dust levels inside residences near a legacy mine.” International Society of Exposure Science, Henderson, NV.
- 2015** Van Horne, Y.O.** , Bell, M., Lothrop, N.** , Wilkinson, S.T., Klimecki, W., Loh, M., Sugeng, A.** , Beamer, P.I. “Dietary predictors of urinary arsenic concentration for children living in a rural Arizona community.” International Society of Exposure Science, Henderson, NV.
- 2015** Solo-Gabriele, H.M., Harwood, V.J., Ferguson, A., Byrne, A., Mena, K.D., Becker, A., Omachonu, V., Axelrad, D.M., Beamer, P., Buckley, B., Bursac, B., Canales, R., DiGiovanni, G.D., Dutton, M., Elmir, S., Gurian, P., Hollenbeck, J., Johnson, L., Kirkpatrick, B., Klaus, J., Lopez, I., Mormann, M., Plano, L.W., Rodriguez, R.A., Sadowsky, M., Shalat, S., Solo-Josephson, P., Studts, J.L., Suther, S., Tarwater, P., Weidhaas, J., Wright, A., Approach for Improved Public Health Guidance for Beach Use During and After Oil Spills. Abstracts of the 2015 Gulf of Mexico Oil Spill & Ecosystem Science Conference.

** Indicates student author

+ Indicates community author

GRANTS AND CONTRACTS:

Federal:

- 2010-2011** *Western Mining Safety and Health Resources Center.* CDC/NIOSH U60 OH10014. Total Costs: \$1,618,834 (for 3 years). Role: Health Expert (6% effort). Only participated in years 2010-2011 to avoid overlap with K25. Co-Principal Investigators: Mary Poulton and Jeff Burgess.
- 2011** *Maternal Child Health Public Health Training Program.* HRSA T76 MC 04925. Direct Costs: \$1,736,297 (for 5 years). Role: Faculty Trainee (4% effort). Co-Principal Investigators: Lynn Gerald and Francisco Garcia.
- 2011-2016** *Relating Diesel Exhaust Exposure to Respiratory and Immune Outcomes in Early Life.* Mentored Quantitative Research Development Award. NIH/NHLBI K25 HL103970. Total Costs: \$666,107. Role: Principal Investigator (75% effort).
- 2012-2015** *Metals Exposure Study in Homes, Project within: Hazardous waste and risk and remediation in the Southwest.* NIH/NIEHS P42 ES4940. Total Costs (for Project): \$327,116. Role: Co-Investigator (5% effort). Principal Investigator: Raina Maier.
- 2015-2020** *Center for Indigenous Environmental Health Research (CIEHR).* NIEHS/EPA P50 ES2026089. Direct Costs: \$745,211 (year 1 only). Role: co-Investigator (5% effort years 3-5).
- 2015-2016** *Evaluation of the Environmental Health Status along the Arizona-Sonora Border.* US EPA Border 2020/BECC. Direct Costs: \$37,975. Role: sub-contract PI (2.5% effort).
- 2016-2018** *Tó'Łitso, the water is yellow: Investigating Navajo exposure to the Gold King Mine toxic spill.* NIH/NIEHS R21 ES026948. Total Costs: \$434,139. Role: Contact PI (10% effort).

Industry:

- 2011** *Office Hygiene Study.* Industry: Kimberly Clark Corporation. Total Costs: \$85, 907. Role: Co-Investigator (8% effort). Co-Principal Investigators: Kelly Reynolds and Charles Gerba.

Other Extramural:

- 2010-2012** *Pesticide Sampling of Farmworkers' Homes in Yuma, AZ: Implications for Interventions to Reduce Exposures.* ERC Small/Pilot Project Program Grant from UCLA funded via CDC/NIOSH T42 OH00841. Total Costs: \$20,520. Role: Principal Investigator/Advisor.
- 2015-2016** *An Observational Study of the Effect of Heat Stress on Pesticide Exposure in Migrant Farmworkers in Sonora, Mexico.* ERC Small/Pilot Project Program Grant from UCLA funded via CDC/NIOSH T42 OH00841. Total Costs: \$14,481.72. Role: Mentor Principal Investigator.

Intramural:

- 2008-2009** *Migration of Soil Particles to the Indoor Environment: Implications for Risk Assessment.* TRIF-WESP Superfund Pilot Project Program. Total Costs: \$39,969.36. Role: Principal Investigator. Co-Principal Investigator: David Layton.
- 2008-2009** *Water Contaminant Exposure and Risk Assessment Laboratory.* Water Sustainability Program, Recruitment and Research Initiative Proposal FY09, Infrastructure Investment. Direct Costs: \$145,560. Role: Principal Investigator.
- 2009-2010** *Characterization of Infant's Exposure to Trichloroethylene: Implications for Cancer.* Funded by the Arizona Cancer Center via the American Cancer Society Institutional Research Grant. Direct Costs: \$22,500. Role: Principal Investigator.
- 2009-2010** *Spatial Analysis of Traffic-Related Exposures and Respiratory Outcomes.* Southwest Environmental Health Sciences Center (NIH/NIEHS ES 006694) Pilot Project Program. Direct Costs: \$39,902.42. Role: Principal Investigator.
- 2010-2011** *Outdoor Pesticide Sampling in Yuma: Implications for Interventions to Reduce Farmworker Families' Exposures.* Young Investigator Research Award. Yuma Friends of Arizona Health Sciences Center. Direct Costs: \$3,000. Role: Principal Investigator.
- 2011-2012** *Risk Perception, Drinking Water Source and Quality in a Low-Income Latino Community Along the US-Mexico Border.* Faculty Research Grant from Water, Environment, and Energy Solutions Initiative Funded by the Technology Research Initiative Fund. Direct Costs: \$39,157.80. Role: Principal Investigator. Co-Principal Investigators: Nolan Cabrera and Kelly Reynolds.
- 2015-2017** *Metals Exposure Study in Homes.* UA Center for Environmentally Sustainable Mining (CESM). Annual Direct Costs: \$50,000. Role: Principal Investigator.
- 2015-2016** *Development of land use regression models for estimating retrospective and prospective air pollution exposure in Tucson.* UA Bio5 Institute (TRIF) and Southwest Environmental Health Sciences Center (NIEHS). Direct Costs: \$56,566. Role: Principal Investigator.
- 2016** *K'é bee da'ahiiniita: Strength through the Navajo clan system to response to the Gold King Mine Spill.* Agenese Nelms Haury Program in Environment and Social Justice, Challenge Grant Finalist. Pilot Project. Direct Costs: \$10,000. Role: co-Principal Investigator.
- 2016-2019** *K'é bee da'ahiiniita: Strength through the Navajo clan system to response to the Gold King Mine Spill.* Agenese Nelms Haury Program in Environment and Social Justice, Challenge Grant. Total Costs: \$600,000. Role: co-Principal Investigator.

