

**ROBERT A. CANALES**  
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### **Education**

- 1996 BS, with honors, Civil Engineering, The University of Texas at Austin
- 1997 MS, Civil & Environmental Engineering, Stanford University
- 2000 MS, Statistics, Stanford University
- 2004 PhD, Environmental Engineering & Science, Civil & Environmental Engineering, Stanford University  
Dissertation: The Cumulative and Aggregate Simulation of Exposure (CASE) Framework  
Advisor: James O. Leckie
- 2006 Graduate Certificate, Sustainable Design, Boston Architectural College
- 2006 Postdoctoral Fellow, Exposure, Epidemiology & Risk Program, Harvard School of Public Health

### **Employment**

- 1998 – 2003 Research/Teaching Assistant, Environmental Engineering & Science Program, Civil & Environmental Engineering, Stanford University
- 2006 – 2008 Acting Assistant Professor (non-tenure track), Environmental Engineering & Science Program, Civil & Environmental Engineering, Stanford University
- 2009 – 2012 Assistant Professor of Statistics (non-tenure track), Environmental Studies Program, Parsons School for Design, Interdisciplinary Sciences Program, Eugene Lang College, The New School
- 2012 – present Assistant Professor, Environmental Health Sciences, Community, Environment, & Policy Division, Mel & Enid Zuckerman College of Public Health, University of Arizona
- 2013 – present Affiliate Member, Graduate Interdisciplinary Program in Statistics
- 2015 – present Affiliate Member, Graduate Interdisciplinary Program in Applied Mathematics

### **Honors and Awards**

- 1992 Texas Achievement Honors Award (4 years)
- 1992 National Hispanic Scholar (4 years)
- 1996 Tau Beta Pi Engineering Honor Society
- 1996 Engineer-in-Training (EIT) Certification, Texas
- 1996 National Science Foundation (NSF) Graduate Fellowship
- 1996 School of Engineering Fellowship, Stanford University
- 1998 Karl E. Schwarz Graduate Award, Stanford University
- 2000 International Society of Exposure Analysis Student Award
- 2001 Centennial Teaching Award, Stanford University
- 2003 Alonso Yerby Award, Harvard School of Public Health
- 2010 Best Paper Award, *Risk Analysis*

### **National/International Outreach**

- Currently Professional memberships: International Society of Exposure Science, Society for Risk Analysis
- 2012 Review for John Wiley & Sons for the text *Modeling and Simulation for Social Epidemiology & Policy*
- 2012 EPA external reviewer for *Updating the Default Input Values for Exposure Variables in the Integrated Exposure Uptake Biokinetic Model for Lead in Children (IEUBK Model)*, *Estimation of Ventilation Rates for U.S. Children*.

- 2012 – present Peer Reviewer for *Food and Chemical Toxicology*, *Journal of the Royal Society Interface*, *Environmental Research*, *Journal of Exposure Science and Environmental Epidemiology*, *Environmental Science & Technology*, *Environmental Health Perspectives*, *International Journal of Environmental Research and Public Health*
- 2013 Students and New Researchers Network (SNRN) Committee Member, International Society of Exposure Science
- 2013 – present Editorial Review Board, *Journal of Exposure Science and Environmental Epidemiology*
- 2014 – present Institute of Medicine, Committee to Evaluate Exposure to TCDD Residue
- 2014 – present Institute of Medicine, Committee to Review Health Effects in Veterans of Exposure to Herbicides
- 2014 – present EPA Review Panel, Air Pollution Monitoring and Communities, EPA-G2014-STAR-K1
- 2015 – present Editorial Review Board, *Frontiers in Environmental Health*

### **Departmental Committee(s)**

- 2012 – present Admissions Committee, Environmental Health Sciences Section
- 2014 Annual Performance Review Committee
- 2014 Faculty Search Committee, Division of Environmental & Occupational Health

### **College Committee(s)**

- 2014 Dean's 5-Year Review Committee

### **Publications/Creative Activity**

#### **Scholarly books and monographs**

Herrick, RF, Canales R, Crump KS, Gonzales M, Kissel JC, Lu C, McCauley LA, Weisel CP (2014). *Post-Vietnam Dioxin Exposure in Agent Orange-Contaminated C-123 Aircraft*, Institute of Medicine, The National Academies Press, Washington, DC.

#### **Chapters in scholarly books and monographs**

Canales RA, Leckie JO (2007). Modeling Aggregate Exposures to Pesticides, in *Exposure Analysis*, W. Ott, A. Steinemann, L. Wallace (Eds.), CRC Press.

Ferguson AC, Canales RA, Leckie JO (2007). Dermal Exposure, Uptake, and Dose, in *Exposure Analysis*, W. Ott, A. Steinemann, L. Wallace (Eds.), CRC Press.

#### **Refereed journal articles, published or accepted in final form**

Canales RA, Leckie JO (2004). Algorithm for Using Contact-Specific Surface Area Estimates in Dermal Exposure Models, *Journal of Children's Health*, 2(3-4):345-362.

AuYeung W, Canales RA, Beamer P, Ferguson AC, Leckie JO (2004). Young Children's Mouthing Behavior: An Observational Study via Videotaping in Primary Outdoor Residential Settings, *Journal of Children's Health*, 2(3-4):271-295.

Canales RA, Leckie JO (2006). Application of a Stochastic Model to Estimate Children's Short-Term Residential Exposure to Lead, *Stochastic Environmental Research and Risk Assessment*, 21(6): 737-745.

AuYeung W, Canales RA, Beamer P, Ferguson AC, Leckie JO (2006). Young Children's Hand Contact Activities: An Observational Study via Videotaping in Primary Outdoor Residential Settings, *Journal of Exposure Science and Environmental Epidemiology*, 16(5): 434-446.

Ferguson AC, Canales RA, Beamer P, AuYeung W, Key M, Munninghoff A, Lee KT, Robertson A, Leckie JO (2006). Video Methods in the Quantification of Children's Exposures, *Journal of Exposure Science and Environmental Epidemiology*, 16(3):287-298.

Beamer P, Key ME, Ferguson AC, Canales RA, AuYeung W, Leckie JO (2008). Quantified Activity Pattern Data from 6-to-27-Month-Old Farmworker Children for Use in Exposure Assessment, *Environmental Research*, 108(2):239-246.

AuYeung W, Canales RA, Leckie JO (2008). The Fraction of Total Hand Surface Area Involved in Young Children's Outdoor Hand-to-Object Contacts, *Environmental Research*, 108(3):294-299.

Beamer P, Canales RA, Leckie JO (2008). Determination of Probability Distributions for Dermal Transfer Efficiencies, *Journal of Exposure Analysis and Environmental Epidemiology*, 19(3):274-283.

Julien R, Canales RA, Levy JI, Hauser R, Adamkiewicz G, Reid M, Hynes P, Spengler JD (2008). Pesticides in Urban Multi-Unit Dwellings: Hazard Identification Using Classification and Regression Tree (CART) Analysis, *Journal of the Air and Waste Management Association*, 58(10).

Julian T, Canales R, Leckie JO, Boehm A (2009). A Model of Exposure to Rotavirus from Nondietary Ingestion Iterated by Simulated Intermittent Contacts, *Risk Analysis*, 29(5):617-632.

Beamer PI, Canales RA, Bradman A, Leckie JO (2009). Farmworker Children's Residential Non-dietary Exposure Estimates from Micro-level Activity Time Series, *Environment International*, 35(8):1202-1209.

Beamer PI, Luik CE, Canales RA, Leckie JO (2011). Quantified Outdoor Micro-activity Data for Children Aged 7-12 Years Old, *Journal of Exposure Science and Environmental Epidemiology*, 22:82-92.

Beamer PI, Canales RA, Ferguson AC, Leckie JO, Bradman A (2012). Relative Pesticide and Exposure Route Contribution to Aggregate and Cumulative Dose in Young Farmworker Children, *International Journal of Environmental Research and Public Health*, 9:73-96.

Ferguson AC, Canales RA, Vieira VM, Leckie JO (2013). Methodology to Capture Children's Non-Dietary Ingestion Exposure Activities during Eating Events, *Human and Ecological Risk Assessment: An International Journal*, 19(4):944-958.

### **Conferences/Scholarly Presentations (Limited to period in current rank)**

#### **Seminars (Invited)**

2012 Environmental and Occupational Health Seminar

2013 Quantitative Biology Colloquium

2015 Modeling and Computation Seminar

#### **Seminars (Submitted)**

Sugeng A, Beamer P, Canales RA, Lutz E, Rosales C (2013). *Influence of Housing Characteristics on Air Infiltration of Agricultural Pesticides into Farmworker's Homes*, 141<sup>st</sup> APHA Annual Meeting and Exposition.

Canales RA, Sinclair RG, Soto-Beltran M, Reynolds KA (2013). *Simulating Non-Dietary Ingestion of Listeria monocytogenes from Residential Surfaces*, Annual Meeting for the Society for Risk Analysis.

Sugeng A, Canales R, Lutz E, Rosales C, Beamer P (2014). *Using Chemical Characteristics to Explain Agricultural Pesticide Transport Pathways from the Field into Homes*, 24<sup>th</sup> Annual Meeting of the International Society for Exposure Science.

Sugeng A, Canales R, Lutz E, Rosales C, Beamer P (2014). *Exploring the Influence of Household and Housing Characteristics on Transport of Agricultural Pesticides into Farmworkers' Homes*, 24<sup>th</sup> Annual Meeting of the International Society for Exposure Science.