

**CURRICULUM VITAE**

**NAME:** Hernando Rafael Perez, PhD, MPH, CIH, CSP  
Owner, Perez IH Consulting LLC

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Elkins Park, Pennsylvania 19027

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**EDUCATION:**

2004 Ph.D, Industrial Hygiene, Purdue University, West Lafayette, IN  
*Dissertation: Detection of Indoor Airborne Fungal Contamination through Examination of Building Heating, Ventilating and Air Conditioning Filters.*

1998 M.P.H., Environmental and Occupational Health, Emory University, Atlanta, GA

1996 B.S., Microbiology, University of New Hampshire, Durham, NH  
B.A., Sociology, University of New Hampshire, Durham, NH

**CERTIFICATION:**

2006- Certified Industrial Hygienist, Comprehensive Practice, American Board of Industrial Hygiene (ABIH), Certificate No. 9181

2007-2013 Healthy Homes Specialist, National Environmental Health Association (NEHA) and the National Center for Healthy Housing (NCHH), Credential ID No. 90003509

2008- Certified Safety Professional, Comprehensive Practice, Board of Certified Safety Professionals (BCSP), CSP No. 20661

**HONORS:**

2000-2001 National Institute for Occupational Safety and Health Trainee Fellowship, Purdue University

2001-2003 Purdue Doctoral Level Fellowship, Purdue University

2005 Fellow, 2005 Summer Research Career Development Institute in Minority Health and Health Disparities, Center for Minority Health EXPORT Health Project, University of Pittsburgh Graduate School of Public Health

2006 Participant, American Industrial Hygiene Association Future Leaders Institute

2007 Sigma Xi

**EMPLOYMENT:**

2012 -

Owner, Perez IH Consulting LLC

*Independent consultant providing professional industrial hygiene, environmental health, and occupational health and safety consulting services.*

4/2015 -

Lead Industrial Hygienist / Environmental Hygiene Program Manager, Emergency Management and Safety Branch, Mission Integrity Division, Office of Security and Integrity, United States Citizenship and Immigration Services (USCIS), United States Department of Homeland Security, Washington, DC

*Lead USCIS agency industrial hygienist, industrial hygiene/environmental health program manager and environmental/occupational health technical expert. Responsible for coordination and performance of industrial hygiene activities at USCIS facilities across the United States. Develop and implement industrial hygiene policies for all USCIS facilities.*

*Maintain DHS Secret Security Clearance*

*USCIS COVID-19 Crisis Management Team (CMT), Public Health Lead and Spokesman, Temporary Full Time Assignment, March 4, 2020 - Present (ongoing). CMT responsible for development, coordination, and communication efforts related to the execution of COVID-19 response.*

10/2014 – 3/2015

Environmental Health and Safety Consultant, Danya International, Inc., Silver Spring, MD

*Performed on-site environmental health and safety reviews of Head Start programs throughout the United States and its territories in support of Danya International's monitoring contract with the Office of Head Start, U.S. Department of Health and Human Services.*

2013-2014

Associate Professor of Public Health, Department of Environmental and Occupational Health, Drexel University School of Public Health, Philadelphia, PA

*Taught graduate level environmental and occupational health courses, conducted environmental and occupational health research, advised graduate students and performed various other professional academic tasks. Research involved industrial hygiene assessment of waste anesthetic gas exposure in veterinary technicians, allergens in animal care facilities, pesticide levels in indoor dust, and assessment of formaldehyde exposures. Teaching activities included a hazard assessment course every fall in which I lectured on as well as directed laboratory and field activities on industrial hygiene sampling theory and calibration. University level committee work included membership on the University Laboratory Safety Committee. Service on this committee involved the development of recommendations for changes and improvements to university laboratory safety policy.*

*2014 Drexel University Graduate Student Association Outstanding Faculty Mentor Award*

2004-2013

Assistant Professor of Public Health, Department of Environmental and Occupational Health, Drexel University School of Public Health, Philadelphia, PA

*(see above)*

8/2003-6/2004

Graduate Assistant, SmokeFree Purdue Project Coordinator, Purdue University

*Supervised undergraduate student workers, advised the student coalition, collected data for implementation of a social norms campaign, worked with Tippecanoe County Tobacco Control Partnership to promote smoke free environments, advocated for policies to make the Purdue campus smoke free, conducted media campaigns to encourage quitting.*

5/2001-8/2001

Industrial Hygiene Intern, Eli Lilly and Company, Lilly Corporate Center, Indianapolis, IN

*Conducted industrial hygiene evaluations, wrote and presented industrial hygiene reports, assisted in the development and implementation of laboratory engineering controls, developed training materials for the use of anesthetic gases.*

1/2000-8/2000

Industrial Hygienist, State of Rhode Island Department of Health, Environmental Lead Program, Providence, RI

*Reviewed lead inspection reports, performed quality assurance inspections of private lead hazard reduction contractors, conducted audits of licensing courses for lead professionals, consulted with owners on issues of regulatory compliance, provided the general public with information regarding lead poisoning prevention, conducted clearance inspections, performed various tasks related to enforcement of Notices of Violation issued to landlords. These enforcement tasks included follow up inspections of cited properties and testifying in court on existing violations.*

1/1999-1/2000

Radiation and Biological Safety Specialist, Brown University Department of Risk Management, Providence, RI

*Performed multiple tasks involving radiation and biological safety including radiation safety inspections of research laboratories, safety inspections of x-ray facilities, safety inspections of laser facilities, coordination of radioactive and biological waste removal, blood borne pathogen training (development and delivery) for university employees, management of the university radiation dosimetry program, tracking of all radioactive material shipments entering and leaving campus, and investigation of incidents involving radioactive and biological materials. Member of the Risk Management Emergency Response Team.*

**CONSULTANCIES:**

2008-2010	Industrial Hygiene Consultant and Lecturer, National Institute for Occupational Safety and Health of Sri Lanka, Colombo, Sri Lanka
2010-2014	Industrial Hygiene Lecturer, Maulana Azad Medical College, New Delhi, India
11/2005-2013	Evaluation Advisor and Consultant, Philadelphia Department of Health Healthy Homes Demonstration Project, Philadelphia, PA
4/2005-12/2005	Mold Management Task Force Consultant, Facilitator and Report Writer, Pennsylvania Department of Health, Harrisburg, PA
7/2004-10/2004	Consultant, Senior Grant Reviewer, Round 12 U.S. Department of Housing and Urban Development Lead Hazard Control Program, Beacon Associates Inc., Bel Air, MD

### **PROFESSIONAL MEMBERSHIPS:**

American Conference of Governmental Industrial Hygienists  
American Industrial Hygiene Association

### **ADMINISTRATIVE, PROFESSIONAL, AND COMMUNITY SERVICE:**

#### ***Administrative Service***

2008-2013	Co-Director, Drexel University Engineering Cities Initiative
2004-2006	Member, Recruitment Task Force, Drexel University School of Public Health
2005-2009	Member, Admissions Committee, Drexel University School of Public Health
2005	Member, Accreditation Steering Committee, Drexel University School of Public Health
2005-2014	Member, Educational Coordinating Committee, Drexel University School of Public Health
2005-2008	Curriculum Coordinator, Department of Environmental and Occupational Health, Drexel University School of Public Health
2006	Recruitment Subcommittee, Provost's Task Force on Faculty Diversity, Drexel University
2012-2014	Member, Drexel University Laboratory Safety Committee

#### ***Professional Service***

2007-2010	Grant Reviewer, Review Panel, National Occupational Research Agenda (NORA) Internal Proposals, National Institute for Occupational Safety and Health
2005	Peer Reviewer, <i>Journal of Occupational and Environmental Hygiene</i>
2006	Peer Reviewer, <i>Indoor &amp; Built Environment</i>

2007	Peer Reviewer, <i>Environmental Research</i>
2007	Peer Reviewer, <i>International Journal of Environment and Waste Management</i>
2007	Peer Reviewer, <i>Journal of Medical Microbiology</i>
2008	Peer Reviewer, <i>Journal of Environmental Management</i>
2009	Peer Reviewer, <i>Indoor Air</i>
2010	Peer Reviewer, <i>Journal of Environmental Health</i>
2011	Peer Reviewer, Pediatrics
2006	Program Evaluator, Applied Science Programs, Accreditation Board for Engineering and Technology (ABET)
2006-16	Member, Academic Accreditation Committee, American Industrial Hygiene Association
2016-2020	Chair, Academic Accreditation Committee, American Industrial Hygiene Association
2009-2012	Member, Roundtable on Environmental Health Sciences, Research, and Medicine, Institute of Medicine, National Academy of Sciences
2011	Member, Committee on Respiratory Protection Curriculum for Occupational Health Nurses, Institute of Medicine, National Academy of Sciences
2014- 2016	Member, Committee on Personal Protective Equipment for Workplace Safety and Health, Institute of Medicine, National Academy of Sciences
2014- 2019	Commissioner, Applied Science Accreditation Commission, ABET
2012	Expert Advisory Board Member, Head-Off Environmental Asthma in Louisiana (HEAL), Phase II, Xavier University of Louisiana

### ***Community Service***

2005	City Week High School Student Mentorship Program
2005-2013	Philadelphia School and Community Integrated Pest Management Partnership
2006-2014	Panel Member and Rater, Environmental Health Program Manager Civil-Service Examination, City of Philadelphia Personnel Department
2007-2012	Member, Technical Advisory Group, National Environmental Health Tracking Program, Commonwealth of Pennsylvania Department of Health

**Peer Reviewed Publications**

**Perez, Hernando.** "Indoor Air Quality Guidelines" In Oxford Bibliographies in Public Health. Ed. David V. McQueen. New York: Oxford University Press

J Glueck, R Huneke, **HR Perez**, I Burstyn (2012) Exposure to airborne mouse and rat allergens among laboratory animal care workers. *Journal of the American Association for Laboratory Animal Science*, 51(5):554-560

Leavy A, **HR Perez**, I Burstyn (2012): Endotoxin and particle counts in subsidized households with asthmatic children in Philadelphia: a pilot study. *Indoor and Built Environment*, 21(4):515-523.

Solon I, PL Gurian, **HR Perez** (2012): The extraction of a *Bacillus anthracis* surrogate from pleated HVAC filter samples. *Indoor and Built Environment*, 21(4):562-567.

**Perez HR**, E Sullivan, K Michael, R Harris (2012): Fish consumption and advisory awareness among the Philadelphia Asian Community: A pilot study. *Journal of Environmental Health*, 74(8):24-28

**Perez HR**, S Haines, K Michael, I Burstyn, M Jandyala, P Palermo (2011) An evaluation of health and safety hazards in family daycare homes in Philadelphia. *Child and Youth Care Forum*, 40:151-157

**Perez HR**, R Johnson, P Gurian, S Gibbs, J Taylor, I Burstyn (2011) Isolation of Airborne Oxacillin-Resistant *Staphylococcus aureus* from Urban Residences *Journal of Occupational and Environmental Hygiene*, 8(2):80-85

Alvarado, C.S., Gandara, A., Flores, C., **Perez, H.R.**, Green, C.F., Hurd, W.W., and Gibbs, S.G. (2009) Seasonal Changes in Airborne Fungi and Bacteria at a Dairy Cattle Concentrated Animal Feeding Operation in the Southwest United States. *Journal of Environmental Health*. 71(9): 40-44

Gandara A, LC Mota, C Flores, **HR Perez**, CF Green, SG Gibbs (2006) Isolation of *Staphylococcus aureus* and antibiotic resistant *Staphylococcus aureus* from residential indoor bioaerosols. *Environmental Health Perspectives* 114(12):1859-1864

**(Featured article in the Environews/Science Selections as "Unwelcome Guest: Airborne Staph in Homes" Environmental Health Perspectives. 114(12): A715.)**

**Perez HR**, NJ Zimmerman, Z Berhane (2006) Evaluation of culturable particle load on HVAC filters before and after remediation: a pilot study. *Indoor and Built Environment* 15(6):525-533

**Perez HR**, AL Frank, NJ Zimmerman (2006) Health effects associated with organic dust exposure during the handling of municipal solid waste. *Indoor and Built Environment* 15(3):207-212.

**Perez HR**, K Michael, I Burstyn (2012) Airborne Methicillin-Resistant Staphylococcus aureus in homes. *Proceedings of Healthy Buildings 2012, 10th International Conference, July 2012, Brisbane, Australia*

**Perez HR**, Z Berhane, P Gurian, T Alexander, A Buchholz, M Chilton, V Bragg (2008) An evaluation of the relationship between residential particulate and dust endotoxin exposures and five asthma specific functional outcome and quality of life indicators in inner-city asthmatic children *Proceedings of the 11<sup>th</sup> International Conference on Indoor Air Quality and Climate, August 2008, Copenhagen, Denmark*

**Perez HR**, NJ Zimmerman, H Cember, F Rosenthal (2005) Detection of indoor airborne fungal contamination through examination of HVAC filters. In Yang X, B Zhao, R Zhao (eds) *Proceedings of the 10<sup>th</sup> International Conference on Indoor Air Quality and Climate, September 2005, Beijing, China: pp.1409-1413*

### **Published Abstracts**

**Perez HR**, NJ Zimmerman, H Cember, F Rosenthal (2005) Detection of fungal contamination through examination of HVAC filters. *Indoor Air. 15(Supp. 11):69.*

### **Reports Authored**

**Perez HR** (August 2006) Pennsylvania Mold Management Task Force Report to the Pennsylvania General Assembly.

### **Invited Presentations and Panels**

Expert Panel Member, *Do meteorological shifts precede and/or parallel shifts in hospital census* (Nursing Conference, Lourdes Medical Center of Burlington County) November 5, 2008, Camden, New Jersey

Invited Lecturer on Industrial Hygiene, *Seminar and Workshop on Occupational Safety and Health*, Department of Chemical and Process Engineering, University of Moratuwa, Sri Lanka, June 23, 2010

Invited Lecturer on Industrial Hygiene, *Workshop on Occupational Health*, Faculty of Medicine, University of Peradeniya, Sri Lanka, June 28 & 29, 2010

Invited Lecturer on Industrial Hygiene, *International Conference on Emerging Trends in Preventing Occupational Respiratory Diseases & Cancers in the Workplace*, Maulana Azad Medical College, New Delhi, India, March 22-24, 2011

**Perez HR, K Michael, I Burstyn** Airborne Methicillin-Resistant Staphylococcus aureus in Homes accepted for presentation at Healthy Buildings 2012: 10th International Conference of the International Society of Indoor Air Quality and Climate, July 2012, Brisbane, Queensland, Australia

**Perez HR, K Michael, I Burstyn** Review of the Evidence for Airborne Transmission of Methicillin Resistant *Staphylococcus aureus* (MRSA) and its Control accepted for presentation at American Industrial Hygiene Conference and Exposition, June 2012, Indianapolis, Indiana.

**Perez HR, M Chin, S Widman** Quantitative comparison of PM 2.5 aerosol measuring devices in residential environments American Industrial Hygiene and Exposition, May 2010, Denver, Colorado.

**Perez HR, Z Berhane, P Gurian, T Alexander, A Buchholz, M Chilton,** An evaluation of the relationship between residential particulate and dust endotoxin exposures and five asthma specific functional outcome and quality of life indicators in inner-city asthmatic children presented at Indoor Air 2008: 11th International Conference on Indoor Air Quality and Climate, August 2008, Copenhagen, Denmark

**Perez HR, S Gibbs** Assessment, interpretation and reporting of bioaerosol sampling results in indoor environments, National Environmental Health Association Annual Educational Conference and Exhibition, June 2008, Tucson, Arizona.

**Perez HR, A Buchholz, Z Berhane, P Gurian, T Alexander, M Chilton, V Bragg,** An evaluation of airborne particle counts, dust endotoxin, and home characteristics on the physical health of asthmatic children, American Industrial Hygiene and Exposition, June 2008, Minneapolis, Minnesota.

**Perez HR, Z Berhane, P Gurain, M Chilton,** Airborne Particle Counts, Dust Endotoxin and Activity Limitation in Inner-City Asthmatic Children (poster) American Public Health Association 135<sup>th</sup> Annual Meeting, November 2007, Washington, D.C.

**Perez HR, Z Berhane, P Gurain, M Chilton,** The Effect of Residential Endotoxin and Particulate Exposure on the Activity Levels of Asthmatic Children. American Industrial Hygiene Conference and Exposition, June 2007, Philadelphia, Pennsylvania

**Perez HR and NJ Zimmerman,** Detection of indoor airborne fungal contamination through examination of HVAC filters. Presented at the 10<sup>th</sup> International Conference on Indoor Air Quality and Climate, September 2005, Beijing, China.

**Perez HR and NJ Zimmerman,** Detection of Indoor Airborne Fungal Contamination through Examination of Building HVAC Filters. Presented at the American Industrial Hygiene Conference and Exposition, May 2005, Anaheim, California

**Perez HR and NJ Zimmerman,** Extraction and Quantification of Viable Fungal Particles from HVAC Filters as Indicators of Relative Airborne Levels in Building Air. Presented at the American Industrial Hygiene Conference and Exposition, May 2004, Atlanta, Georgia

**Perez HR and NJ Zimmerman,** Viable Fungal Concentration on HVAC Filters as a Predictor of Average Airborne Fungal Concentrations. (Poster) Presented at the University of Cincinnati Pilot Research Project Symposium, October 2003, Cincinnati, Ohio



**Perez HR** and NJ Zimmerman, Validation of a Method to Quantify Fungi on Heating, Ventilating and Air Conditioning System Filters. Presented at the University of Cincinnati Pilot Research Project Symposium, October 2003, Cincinnati, Ohio 9 of 11

**Perez HR** and NJ Zimmerman, Evaluation of a Method to Quantify Fungi on Heating, Ventilating and Air Conditioning Filters (poster) Presented at the American Industrial Hygiene Conference and Exposition, June 2003, Dallas, Texas

## TEACHING

Course Director, PBHL 641, Environmental and Occupational Hazard Assessment, Drexel University School of Public Health, Fall Quarter, 2006-Present, Full time MPH Program, Philadelphia, PA

Course Director, PBHL 640, Environmental and Occupational Health, Drexel University School of Public Health, Winter Quarter 2009-Present, Full Time MPH Program, Philadelphia, PA

Faculty Facilitator, MPH Block IX, Environmental and Occupational Health, Drexel University School of Public Health, Fall, 2010-Present, Executive MPH Program, Sacramento, CA

Faculty Facilitator, PBHL 640, Environmental Health, Drexel University School of Public Health, Winter Quarter, 2006-2008, Full Time MPH Program, Philadelphia, PA

Faculty Facilitator, PBHL 660, Occupational Health, Drexel University School of Public Health, Spring Quarter, 2006-2008, Full Time MPH Program, Philadelphia, PA

Faculty Facilitator, MPH Block IX, Environmental and Occupational Health, Drexel University School of Public Health, Fall, 2005-2007, Executive MPH Program, Philadelphia, PA

Faculty Facilitator, MPH Block IX, Environmental and Occupational Health, Drexel University School of Public Health, Winter, 2005-2006, Full Time MPH Program, Philadelphia, PA

## STUDENT ADVISING

Christopher Harvey, MPH June 2006, Community Based Master's Project: *Assessing the impact of helicopter emissions on the respiratory health of office workers in the New College Building* **(Exemplary CBMP Award Winner)** \*\*

Erin Sullivan (Black), MPH June 2007, Community Based Master's Project: *Methylmercury exposures in the Philadelphia Asian Community: A vulnerability and susceptibility assessment of methylmercury exposure and subsistence fishing*

Lauren Gordon, MPH August 2007, Community Based Master's Project: *Pollution in the urban environment and its effect on clinic visits for asthma in Hispanic Children*

Andrew Buchholz, MPH June 2008, Community Based Master's Project: *An evaluation of the combined effects of environmental particulate exposures and dietary deficiencies on pediatric asthma severity in inner city Philadelphia*

Kianga Mungai, MPH June 2008, Community Based Master's Project: *Using indicators to identify populations in Washington D.C. susceptible to environmental toxins*

Soniya Barde, MPH June 2008, Community Based Master's Project: *Analysis of traffic volume and asthma prevalence in Philadelphia school children*

Komal Wadyal, MPH June 2008, Community Based Master's Project: *Isoflurane waste anesthetic gas exposure assessment*

Renee Whiskey, MPH June 2009, Community Based Master's Project: *Integration of environmental public health into primary health care services for low income pregnant women*

Rachel Johnson, MPH June 2009, Community Based Master's Project: *Isolation of airborne oxacillin-resistant Staphylococcus aureus from urban residences*

Cara O'Donnell, MPH June 2009, Community Based Master's Project: *Cost-benefit analysis to inform risk management of B. Antracis remediation*

Michael Chin, MPH June 2009, Community Based Master's Project: *Quantitative comparison of PM 2.5 aerosol measuring devices*

Jennifer Elmer, MPH June 2010, Community Based Master's Project: *A data-based analysis of isoflurane levels in veterinary operating theatres. (Exemplary CBMP Award Winner) \*\*\**

Niquinn Folwer, MPH June 2010, Community Based Master's Project: *Revitalization of Brownfields in Northern Liberties*

Benjamin Jarrett, MPH June 2010, Community Based Master's Project: *Comparison of clinical outcomes, resource utilization, and injury patterns between hospitalized obese and non-obese pediatric patients with traumatic injuries.*

Karen Michael, MPH June 2011, Community Based Master's Project: *Analysis of airborne methicillin-resistant staphylococcus aureus and gram positive coagulase negative Staphylococcus species in homes*

Heather Galada, MPH June 2011, Community Based Master's Project: *First responder knowledge and training needs for bioterrorism*

## RESEARCH SUPPORT

12/2011 -4/2012	\$10,000 Philadelphia Department of Public Health <i>Healthy Homes for Childcare Program Evaluation</i>
9/2009-8/2011	\$110,000 PI: HR. Perez Philadelphia Housing Authority <i>Healthy Homes Intervention Study</i>

9/2008-10/2009	<p>\$89,973</p> <p>PI: HR Perez</p> <p>The Barra Foundation</p> <p><i>Integration of Environmental Public Health into Primary Health Care Services for Low Income Pregnant Women</i></p>	11 of 11
2007-2010	<p>\$490,000</p> <p>PI: <u>PL Gurian (HR Perez Co-Investigator)</u></p> <p>United States Department of Homeland Security</p> <p><i>Fellowship Program in Microbial Risk Assessment for Public Security, Safety and Health</i></p>	
11/2005-12/2007	<p>\$187,101</p> <p>PI: <u>HR Perez</u></p> <p>Drexel Synergy Grant</p> <p><i>An Evaluation of the Combined Effects of Environmental Particulate Exposures and Dietary Deficiencies on Pediatric Asthma Severity in Inner City Philadelphia</i></p>	
2005-2008	<p>\$76,800</p> <p>PI: <u>HR Perez</u></p> <p>Philadelphia Housing Authority</p> <p><i>An Asthma Intervention in Philadelphia Housing Choice Voucher Properties: Community Based Participatory Research in an Urban Setting</i></p>	
6/2003-6/2004	<p>\$3500</p> <p>PI: <u>HR Perez</u></p> <p>National Institute for Occupational Safety and Health Pilot Research Training Program of the University of Cincinnati Education and Research Center Grant #T42/CCT5100420</p> <p><i>Viable Fungal Concentration on HVAC Filters as a Predictor of Average Airborne Fungal Concentrations</i></p>	
6/2002-6/2003	<p>\$4772</p> <p>PI: <u>HR Perez</u></p> <p>National Institute for Occupational Safety and Health Pilot Research Training Program of the University of Cincinnati Education and Research Center Grant #T42/CCT5100420</p> <p><i>Validation of a Method to Quantify Fungi on Heating, Ventilating and Air Conditioning System Filters</i></p>	