

Edward J. Kasner

PhD, MPH, Senior Fellow, UW-DEOHS
1234 St SE, Seattle, WA 12345
ejkasner@email.edu 123-456-7890
LinkedIn: [ejkasner](#)

Professional Summary

Research scientist and public health professional with 10 years of experience in exposure assessment, industrial hygiene, environmental health, occupational health, risk assessment, epidemiology, and agricultural science with a special focus on pesticide use and pollution in the United States and China. Strong interest in open science and community health outcomes. Extensive teaching experience in elementary, middle, and high school, and university settings.

Education

- PhD**, Environmental and Occupational Hygiene, University of Washington, Seattle 2017
Dissertation: *On Preventing Farmworker Exposure to Pesticide Drift in Washington Orchards*
Committee: Richard Fenske (Chair), Michael Yost, Edmund Seto, Gwen Hoheisel, Joanne Prado
Core science: Epidemiology
- MPH**, Environmental Health, University of Minnesota, Minneapolis 2010
Project: *Pesticide Exposure Assessment Among Small Farmers in Yunnan, China*
Committee: Bruce Alexander, Matthew Simcik, Jean Johnson
Global Health Interdisciplinary Concentration
- BA**, Humanities-Classical Studies, Saint John's University, Collegeville Minnesota 2004
Preprofessional Health Sciences Track, Latin Minor

Specialized Skills

- Languages (Proficient: R, Markdown, ArcMap, \LaTeX , SAS, Stata; Intermediate: Python, git, QGIS)
- Awarded over \$9999 for three multi-year research grant proposals
- IRB application, modification, and management for observational and experimental studies
- Design of field-based exposure assessment studies and data analysis plans (equipment list below)
- Technical report writing (R Markdown) and academic manuscripts for peer-reviewed journals
- Limited working proficiency in Mandarin Chinese

Research Experience

- Senior Fellow**, Seattle, WA Oct 2017 - present
University of Washington School of Public Health
Department of Environmental and Occupational Health Sciences
Program: [Pacific Northwest Agricultural Safety and Health Center](#)
- Co-authored 5 articles related to dissertation work for submission to peer-reviewed journals
 - Coordinated 5-year NIOSH-funded project: *Prevention of Occupational Exposure to Pesticide Drift*
 - Served as topic expert for Washington Senate Bill 6549: *Pesticide Application Safety Work Group*
- Graduate Student Intern**, Olympia, WA Mar 2015 - Oct 2017
Washington State Department of Health
Office of Environmental Public Health Sciences
Program: [Pesticide Illness Surveillance](#)
- Conducted exposure assessment for pesticide drift events involving humans in 2000-2015
 - Geocoded drift event locations to find spatial extent using R and ArcMAP geoprocessing tools
 - Analyzed 15-min meteorological data from 170 weather stations (57 million rows)
 - Prepared technical report about findings that became dissertation chapter

Graduate Student Research Assistant, Seattle, WA

Sep 2012 - Sep 2017

University of Washington School of Public Health

Department of Environmental and Occupational Health Sciences

Program: [Pacific Northwest Agricultural Safety and Health Center](#)

- Collected meteorological, GPS, air/water sample measurements and managed database with R
- Supervised field research staff and undergraduate/graduate students for 3 different projects
- Served on committee for M.S student (Magali Blanco: *Real-time Monitoring of Pesticide Drift*)
- Prepared technical reports and academic manuscripts for peer-reviewed journals
- Presented at multiple exposure science, agricultural safety, and tree fruit industry meetings

Research Epidemiologist Fellow, Cincinnati, OH

Aug 2010 - Aug 2012

Centers for Disease Control and Prevention

National Institute for Occupational Safety and Health

Division of Surveillance, Hazard Evaluations, and Field Studies

Program: [Sentinel Event Notification System for Occupational Risks \(SENSOR\)-Pesticides](#)

- Co-authored 2 articles in peer-reviewed journals about acute pesticide illnesses
- Managed national database using SAS for 12+ years of reports from state health departments
- Organized 3 workshops for state program epidemiologists, CDC-NIOSH, US EPA, and stakeholders
- Designed and facilitated 3 standardized variable database coding exercises
- Investigated unusual exposure and illness case reports for US EPA and state programs
- Coordinated monthly seminar for Pesticide Interest Group of 30 research scientists

Paraprofessional-Senior Epidemiologist, Saint Paul, MN

Oct 2009 - Aug 2010

Minnesota Department of Health

Infectious Disease Epidemiology, Prevention and Control Division

Immunization, Tuberculosis and International Health Section

Surveillance/Assessment Unit

Program: [Sentinel School Surveillance Varicella Outbreak Reporting](#)

- Interviewed school nurses and parents of *Varicella zoster* cases among 80 sentinel schools
- Assisted with CDC outbreak reporting and data management for *Varicella zoster* virus
- Initiated investigation, prophylaxis, and follow-up of suspected *Bordetella pertussis* cases
- Requested medical records from hospitals with cases of suspicious *Hepatitis* lab reports
- Contributed to report about *Varicella* vaccination rates in Minnesota schools
- Answered calls made to public hotline for *H1N1 Influenza*

Guest Researcher, Kunming, Yunnan, China

Jun 2009 - Aug 2009

Program: [Pesticide Eco-Alternatives Center \(PEAC\)](#)

- Conducted pesticide exposure assessment for 52 farmers in a rural village of Yunnan Province
- Presented research plans, project results, and lecture about pesticide risk assessment framework
- Piloted informal survey of local farmers about water use, pesticide laws, and food production
- Facilitated discussions about agriculture, pesticides, and China-United States relations

Teaching Experience**Postgraduate Teaching Assistant, [Human Exposure to Environmental Contaminants](#)**

Fall Quarter 2017

University of Washington School of Public Health, Seattle, WA

- Lectured and facilitated discussions about exposure pathways and risk communication
- Applied box and plume models to assess fate and transport of environmental contaminants
- Taught statistical exposure estimation for chemical, biological, and physical hazards
- Provided homework support to students outside of class about exposure assessment methods
- Managed course website content with *Canvas* and *Panopto* platforms

Graduate Teaching Assistant, *Environmental Risk and Society*
University of Washington School of Public Health, Seattle, WA

Fall Quarters 2014 & 2015

- Lectured and facilitated discussions about exposure pathways and final exam review
- Examined use of risk assessment and management in context of public health controversies
- Provided homework support to students outside of class about risk assessment methods
- Managed course website content with *Canvas* and *Panopto* platforms

Graduate Teaching Assistant, *Occupational and Environmental Epidemiology*
University of Washington School of Public Health, Seattle, WA

Spring Quarter 2014

- Assisted with restructuring of graduate-level course cross-listed in Epidemiology Department
- Used case-oriented approach to cover study designs, exposure estimation, and study biases
- Provided homework support to students for statistical programming and research methods
- Managed course website content with *Canvas* and *Tegrity* platforms

Professional Tutor

Oct 2006 - Aug 2010

Academic Tutoring and Testing, Minneapolis, MN

- Designed individualized study plans for 50+ middle, high school, and college students
- Taught American College Testing (ACT) exam preparation strategies to 25+ high school students
- Specialized in Geometry, Algebra, Biology, Chemistry, English, History, Latin, and Chinese

Educational Assistant, Special Education
New Visions Academy, Minneapolis, MN

Sep 2006 - Jun 2008

- Taught at Title I, K-8, charter school comprised of 80%+ underrepresented students
- Supported students with Cognitive, Autism Spectrum, and Emotional Behavioral Disorders
- Delivered classroom services for students with Individualized Education Programs (IEP)
- Assisted with lesson planning, grading, and classroom support for 28 students in first grade

English as a Foreign Language Instructor
Zhanjiang Normal University, Guangdong, China

Aug 2005 - Jul 2006

- Taught *Speaking, Writing, Intercultural Communication, & Culture of English-Speaking Countries*
- Advised 3 students for *Senior Thesis Seminar*
- Coordinated weekly “English Corner” campus event
- Designed course for International English Language Teaching System (IELTS) Exam preparation
- Lectured at 10+ rural middle schools
- Attained proficiency in Mandarin Chinese
- Coached and played on English department basketball team

English as a Foreign Language Instructor
Qujing Normal University, Yunnan, China

Aug 2004 - Jun 2005

- Taught *Speaking, Writing, & Audio-Visual*
- Coordinated weekly “English Corner” campus event
- Facilitated student organization that provided tuition and medical assistance to students
- Coached and played on English department basketball team

Peer-Reviewed Publications

Kasner EJ, Yost MG, Fenske RA. 2018. Assessing the Importance of Residential Proximity with Land-Use Regression Estimates of Pesticide Exposure in Washington State. *In preparation*.

Kasner EJ, Prado JB, Yost MG, Seto EWY, Fenske RA. 2018. Wind Ramping as an Indicator of Occupational and Bystander Illness from Pesticide Drift in Washington State, 2000-2015. *In preparation*.

Kasner EJ, Hoheisel G, Yost MG, Galvin K, Seto EWY, Fenske RA. 2018. Comparative Evaluation of Orchard Sprayer Technology Based on Potential Worker Exposure to Pesticide Drift. *In preparation*.

Blanco M, Fenske RA, **Kasner EJ**, Yost MG, Austin E. 2018. Real-Time Particle Monitoring of Pesticide Drift Exposure from Three Different Orchard Sprayers. *In preparation*.

Kasner EJ, Hoheisel G, Yost MG, Galvin K, Seto EWY, Fenske RA. 2018. Measuring Potential Farmworker Exposure to Pesticide Drift from an Axial Fan Airblast Orchard Sprayer. *Submitted*.

Blanco M, Fenske RA, **Kasner EJ**, Yost MG, Austin E. 2018. Real-Time Particle Monitoring of Pesticide Drift from an Axial Fan Orchard Sprayer. *Submitted*.

Bonnar-Prado J, Mulay P, **Kasner EJ**, Calvert GM. 2017. [Acute Pesticide-Related Illness among Farmworkers: Barriers to Reporting to Public Health Authorities](#). J Agromedicine. 22(4):395-405.

Hudson NL, **Kasner EJ**, Beckman J, Mehler L, Schwartz A, Higgins S, Bonnar-Prado J, Lackovic M, Mulay P, Mitchell Y, Larios L, Walker R, Waltz J, Moraga-McHaley S, Roisman R, Calvert GM. 2014. [Characteristics and Magnitude of Acute Pesticide-Related Illnesses and Injuries Associated with Pyrethrin and Pyrethroid Exposures – 11 States, 2000-2008](#). Am J Ind Med. 57(1):15-30. doi: 10.1002/ajim.22216. Epub 2013 Jun 20.

Kasner EJ, Keralis JM, Mehler L, Beckman J, Bonnar-Prado J, Lee S, Diebolt-Brown B, Mulay P, Lackovic M, Waltz J, Schwartz A, Mitchell Y, Moraga-McHaley S, Roisman R, Gergely R, Galvert, GM. 2012. [Gender Differences in Acute Pesticide-Related Illnesses and Injuries among Farmworkers in the United States, 1998-2007](#). Am J Ind Med. 55(7):571-583. doi: 10.1002/ajim.22052. Epub 2012 Apr 11.

Other Publications & Contributions

Kasner EJ. 2017. [On Preventing Occupational Exposure to Pesticide Drift in Washington Orchards](#). Dissertation. University of Washington.

Kasner EJ, Fenske RA, Galvin K, Yost MG, Palmández P. 2016. [Review of Agricultural Spray Notification Systems](#). Pacific Northwest Agricultural Safety and Health Center. Seattle, WA.

Kasner EJ, Calvert GM. 2013. [Table 1: Pesticides Most Often Implicated in Acute Occupational Pesticide-Related Illness and Injury Cases and Number of Cases. SENSOR-Pesticides Program, 2005-2009 \(N=9,906\)](#). Recognition and Management of Pesticide Poisonings. 6th Edition. US Environmental Protection Agency.

Lopez A. 2012. [Status of Varicella Surveillance and Challenges in the 2-Dose Varicella Vaccination Era](#). Division of Viral Diseases, National Center for Immunization and Respiratory Diseases, Centers for Disease Control and Prevention. *Data collection and analysis contribution from Minnesota Department of Health*.

Assadourian E, **Kasner E**. 2010. [Dietary Norms that Heal People and the Planet](#). State of the World 2010 - Transforming Cultures: From Consumerism to Sustainability.

Lectures & Invited Talks

On Preventing Farmworker Exposure to Pesticide Drift in Washington Orchards UW-Department of Environmental and Occupational Health Sciences	Aug 2017 Seattle, WA
Exposure Monitoring and Assessment of Pesticide Drift in Agricultural Settings Conference for Indigenous Health	Apr 2016 Mount Vernon, WA
Farmwork, Pesticides, and Public Health Panel Discussion Common Book Series Event for UW Health Sciences Students	Apr 2015 Seattle, WA

Conference Presentations

Use of Meteorological Data to Strengthen Public Health Surveillance of Risk and Disease, Response and Prevention 8th Annual Northwest Climate Conference	Sep 2017 Tacoma, WA
Minimizing Pesticide Drift: Evaluation of New Technologies to Reduce the Risk of Pesticide-Related Illness among Tree Fruit Orchard Workers International Society of Exposure Science 25th Annual Meeting	Oct 2015 Henderson, NV
Using Data to Protect Workers and Others from Pesticide Drift Washington State Environmental Health Association Annual Educational Conference	May 2014 Grand Mound, WA

Poster Presentations

Comparative Evaluation of Orchard Sprayer Technology Based on Pesticide Drift Exposure Potential	Oct 2017
International Society of Exposure Science 27th Annual Meeting	Research Triangle Park, NC
Notification of Pesticide Applications to Minimize Workplace Exposures: A Feasibility Study	Oct 2014
International Society of Exposure Science 24th Annual Meeting	Cincinnati, OH
Community Exposures to Pesticide Drift in Agricultural Regions of Washington	Jan 2014
Annual Semiahmoo Symposium	Blaine, WA
Gender Differences in Acute Pesticide-Related Illnesses and Injuries Among Farmworkers in the United States, 1998-2007	Oct 2011
American Public Health Association Conference	Washington, DC
Exposure Assessment of Pesticide Use among Small Farmers in Yunnan, China	Jun 2010
National Environmental Health Association Conference	Albuquerque, NM

Workshop Presentations

Writing a Dissertation with Knitr and Markdown	Nov 2017
DEOHS Informatics Meet-Up	Seattle, WA
Occupational Exposure to Pesticide Drift	Mar 2016
SENSOR-Pesticides Annual Winter Workshop	Seattle, WA
Disrupting the Pesticide Drift Exposure Pathway: Evaluation of New Technologies to Reduce the Risk of Pesticide-Related Illness among Tree Fruit Orchard Workers	Feb 2015
SENSOR-Pesticides Annual Winter Workshop	New Orleans, LA
A Comparison of Report Sources Update: Occupational Pesticide Poisoning Reported by AAPCC and SENSOR-Pesticides, 1998-2003 and 2006-2008	Jan 2012
SENSOR-Pesticides Annual Winter Workshop	Austin, TX
A Comparison of Report Sources: Occupational Pesticide Poisoning Reported by AAPCC, SENSOR, and CDPR, 1998-2003 and 2006-2007	Jul 2011
National Institute for Occupational Safety and Health Webinar	Cincinnati, OH
Standardized Database Coding Exercise Results and Discussions	
• SENSOR-Pesticides Winterfest Workshop	Seattle, WA; Mar 2016
• National Institute for Occupational Safety and Health Webinar	Cincinnati, OH; Jul 2012
• SENSOR-Pesticides Winterfest Workshop	Austin, TX; Jan 2012
• Council for State and Territorial Epidemiologists Conference	Pittsburgh, PA; Jun 2011
• SENSOR-Pesticides Winterfest Workshop	Washington, DC; Jan 2011

Service to Department, Profession, & University

<i>Ad hoc</i> reviewer for <i>Journal of Agromedicine</i>	2016-present
<i>Ad hoc</i> reviewer for <i>American Journal of Industrial Medicine</i>	2011-present
Judge, UW-SPH Undergraduate Student Research Symposium	2014-2016
Supporting Undergraduate Research Experiences in Environmental Health (SURE-EH) Mentor	2015-2016
Department of Environmental & Occupational Health Sciences Student Advisory Committee	2012-2016
UW Workers' Memorial Day Planning Committee	2012-2014

Membership in Professional Societies

International Society of Exposure Science	2012-present
Council for State and Territorial Epidemiologists	2011-2013
Toastmasters International	2011-2013
American Public Health Association	2008-2013
National Environmental Health Association	2008-2010

Licensing & Training

Collaborative Institutional Training Initiative (CITI Program), Human Subjects, Stage 1	2016
Certified Pesticide Applicator-Private, Washington State	2015-present
Community Science Data Workshop, Python	2014
Emergency Medical Technician-Basic	2003-2004

Honors

Senior Fellow , Department of Environmental and Occupational Health Sciences, UW-Seattle	2017-2018
Fellow , Association of Schools of Public Health, CDC-EPA	2010-2012
Awardee , Myers Endowment for International Experience in Public Health, UM-Minneapolis	2009
Fellow , Walter H. Judd Graduate and Professional International Fellowship, UM-Minneapolis	2009

Dissertation Abstract

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Master's Project Abstract

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Monitoring Equipment & Experience

- Meteorological station (10-meter)
 - PC200W datalogger support software for CR1000
 - HMP45C temperature and relative humidity probe
 - Model 109 (T109C) temperature probe
 - Met One 034B wind sensor
 - RM Young Model 81000V 3-axis ultrasonic anemometer
- Air sampling devices
 - Draeger Tube Pump and gas sampling tubes
 - Charcoal tubes and passive badges
 - SKC Airchek 2000 sampling pump
 - MSA personal sampling pump
 - Rotameter
 - DryCal Defender calibration tool

References

Available upon request.