ERIKA ELISABETH SCOTT

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EDUCATION

Graduate Certificate in Economics and Health Policy, Rockefeller College of Public Affairs & Policy, University at Albany, 2019-in progress

PhD in Environmental Health Sciences, University at Albany, School of Public Health, Albany, NY, 2016 Concentration: Environmental and Occupational Health.

Dissertation: Establishing Methodology for Occupational Injury Surveillance in Agriculture and Logging

MS in Environmental Health and Toxicology, University at Albany, School of Public Health, Albany, 2010 Concentration: Environmental and Occupational Health

Thesis: Technical Experience and Practical Applications of Industrial Hygiene

BS in Biology, State University at Geneseo, Geneseo, NY, 2008

EMPLOYMENT

Deputy Director, The New York Center for Agricultural Medicine and Health/ Northeast Center for Occupational Health and Safety in Agriculture, Forestry and Fishing (Affiliated with Bassett Healthcare Network), Cooperstown, NY, September 2016 – present

Junior Research Investigator, The New York Center for Agricultural Medicine and Health/ Northeast Center for Occupational Health and Safety in Agriculture, Forestry and Fishing (Affiliated with Bassett Healthcare Network), Cooperstown, NY, December 2013 – August 2016

Senior Research Coordinator, The New York Center for Agricultural Medicine and Health/ Northeast Center for Occupational Health and Safety in Agriculture, Forestry and Fishing (Affiliated with Bassett Healthcare Network), Cooperstown, NY, August 2011 – December 2013

Research Coordinator, The New York Center for Agricultural Medicine and Health/ Northeast Center for Occupational Health and Safety in Agriculture, Forestry and Fishing (Affiliated with Bassett Healthcare Network), Cooperstown, NY, August 2009 – August 2011

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Occupational Health Intern, Industrial Hygiene Intervention Services, Bureau of Occupational Health, New York State Department of Health, Troy, NY, January 2009 – August 2009

PUBLICATIONS

Scott E and Dalton D. Agricultural Fatalities in New York State from 2009-2018: Trends from the past Decade Gathered from Media Reports. Journal of Agromedicine. 2020. 1-8. https://doi.org/10.1080/1059924X.2020.1720883

Hirabayashi L, **Scott E**, Jenkins P, Krupa N. Occupational Injury Surveillance Methods Using Free Text Data and Machine Learning: Creating a Gold Standard Data Set. In: SAGE Research Methods Cases: Medicine and Health. London: SAGE Research Methods; 2020. https://dx.doi.org/10.4135/9781529720488

Weichelt B, Heimonen T, Gorucu S, Redmond E, Vechinski J, Pflughoeft K, Bendixsen C, Salzwedel M, **Scott E**, Namkoong K, Purschwitz M, Rautiainen R, Murphy DJ. Redesigning a Sentinel Surveillance System for Collecting and Disseminating Near Real-Time Agricultural Injury Reports: System Usability Study. JMIR Form Res 2019;3(3):e13621. DOI: 10.2196/13621

Scott E, Hirabayashi L, Jones N, Krupa N, Jenkins P. Characteristics of Agriculture Related Motor Vehicle Crashes in Rural New York State. Journal of Agromedicine. 2019. May 30:1-6. doi: 10.1080/1059924X.2019.1623143

Scott E, Hirabayashi L, Krupa N, Jenkins P. Emergency Medical Services Pre-Hospital Care Reports as a Data Source for Logging Injury Surveillance. Journal of Agromedicine. 2019 Apr;24(2):133-137. doi: 10.1080/1059924X.2019.1572558.

Murphy D, Gorucu S, Weichelt B, **Scott E**, Purschwitz M. Using Multiple Coding Schemes for Classification and Coding of Agricultural Injury. American Journal of Industrial Medicine. 2019 Feb;62(2):87-98. doi: 10.1002/ajim.22932.

Jones NM, **Scott EE**, Krupa N, Jenkins PL. Estimating the cost of agricultural morbidity in Maine and New Hampshire. Journal of Agricultural Safety and Health. J Agric Saf Health. 2018 Jan 29;24(1):3-11. doi: 10.13031/jash.12146.

Scott EE, Bell E, Hirabayashi L, Krupa N, Jenkins PL. Data Processing and Case Identification in an Agricultural and Logging Morbidity Surveillance Study: Trends over Time. American Journal of Industrial Medicine. 2017 Sep;60(9):811-820. doi: 10.1002/ajim.22751.

Sorensen JA, Tinc PJ, Dalton D, **Scott EE**, Jenkins PL. A Comparison of Interventional Approaches for Increasing Power Take-off Shielding on New York Farms. Journal of Agromedicine. April 2017. Volume 22, No. 3. Pages 251-258.

Scott EE, Bell EM, Hirabayashi L, Krupa N, Jenkins P. Trends in Nonfatal Agricultural Injury in Maine and New Hampshire: Results from a Low-Cost Passive Surveillance System. Journal of Agromedicine. January 2017. Volume 22, No. 2. Pages 109-117.

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Meyerhoff A, Tinc PJ, **Scott EE**, Wyckoff S. Development and Evaluation of Basic First Aid Curriculum for Spanish-Speaking Dairy Workers. Journal of Agricultural Safety and Health. July 2016. Vol 22, No. 3.

Weiss D, Armenti KA, **Scott EE**. Identifying the gaps in the methodology of New Hampshire farm injury surveillance using hospital discharge data. NH Division of Public Health Service, Issue Brief. Available at http://www.dhhs.nh.gov/dphs/hsdm/ohs/documents/farm-issue-brief.pdf

Scott EE, Hirabayashi L, Krupa NL, Sorensen JA, Jenkins PL. Developing Surveillance Methodology for Agricultural and Logging Injury in New Hampshire Using Electronic Administrative Data Sets. J Occup Environ Med. 2015 Aug;57(8):866-72. doi: 10.1097/JOM.0000000000000482. PubMed PMID: 26247640.

Earle-Richardson G, Scribani M, **Scott E**, May J, Jenkins P. A comparison of health, health behavior, and access between farm and nonfarm populations in rural New York state. J Rural Health. 2015 Spring;31(2):157-64. doi: 10.1111/jrh.12098. Epub 2014 Nov 14. PubMed PMID: 25399689.

Scott EE, Krupa NL, Horsman M, Jenkins PL. Estimation of agricultural and logging injury incidence in Maine using electronic administrative data sets. J Agromedicine. 2015;20(2):195-204. doi: 10.1080/1059924X.2015.1009668. PubMed PMID: 25906278.

Sorensen JA, Brewer DD, Wyckoff L, Horsman M, **Scott EE**, et al. Building Safety Partnerships Using Social Network Analysis. Social Marketing Quarterly. 2013 May; 19(2):67-75

Scott EE, Krupa NL, Sorensen J, Jenkins PL. Electronic merger of large health care data sets: cautionary notes from a study of agricultural morbidity in New York State. J Agromedicine. 2013;18(4):334-9. doi: 10.1080/1059924X.2013.826608. PubMed PMID: 24125048.

Scott EE, Pavelchak N, DePersis R. Impact of housekeeping on lead exposure in indoor law enforcement shooting ranges. J Occup Environ Hyg. 2012;9(3):D45-51. doi: 10.1080/15459624.2011.648571. PubMed PMID: 22353015.

Scott EE, Earle-Richardson G, Krupa N, Jenkins P. A correction factor for estimating statewide agricultural injuries from ambulance reports. Ann Epidemiol. 2011 Oct;21(10):767-72. doi: 10.1016/j.annepidem.2011.07.005. PubMed PMID: 21884968.

Earle-Richardson GB, Jenkins PL, **Scott EE**, May JJ. Improving agricultural injury surveillance: a comparison of incidence and type of injury event among three data sources. Am J Ind Med. 2011 Aug; 54(8):586-96. doi: 10.1002/ajim.20960. Epub 2011 May 2. PubMed PMID: 21538445

LECTURES/ ORAL PRESENTATIONS

Tales from the Maine Woods: Initial Results from a Longitudinal Cohort Study of Logging Workers. Research Grand Rounds, Bassett Medical Center, Cooperstown, NY, April 21, 2020.

Analyses of Agricultural Injury Data from Administrative Databases. Panel: Surveillance of AgFF Injury, Illness and Economic Impacts. Western Ag Safety and Health Conference, University

of Washington, Pacific Northwest Agricultural Safety and Health Center (PNASH), Seattle, WA, August 8, 2019.

Utility of Free-Text Data in an Occupational Injury Surveillance System for Agriculture, Forestry and Commercial Fishing. Harvard T.H. Chan School of Public Health, NIOSH Education and Research Center, Environmental and Occupational Medicine and Epidemiology Program, Monday Seminar Series, Boston, MA, December 17, 2018.

Using Maine and New Hampshire PCRs to Create a Gold Standard Injury Dataset in Agriculture, Forestry, and Fishing. Northeast Epidemiology Conference. Manchester, VT. November 1, 2018.

Enhancing Agriculture, Forestry, and Fishing Injury Surveillance Using Free Text Data. National Occupational Injury Research Symposium (NOIRS 2018), Morgantown, WV, October 16, 2018.

Engaging with New Research Populations: Considerations and Challenges from the Maine Logger Health and Safety Study. Bassett Research Seminar, Clark Auditorium, August 21, 2018, Cooperstown, NY.

Assessing Overall Health and Improving Injury Surveillance of Maine Logging Workers. 41st Annual Council on Forest Engineering Meeting, Williamsburg, Virginia, July 15-18, 2018.

Commercial Fishing and Processing Health and Safety Surveillance Informing Intervention Development. IFISH 5 Conference (International Fishing Industry Safety & Health Conference), Panel with Samantha Case, U.S. National Institute for Occupational Safety and Health (NIOSH); Erika Scott, Northeast Center for Occupational Health and Safety; Laurel Kincl, Viktor Bovbjerg, and Jasmine Nahorniak, Oregon State University; Laura Syron and David Sweet, NIOSH, June 11, 2018, St. John's, NL

Cows, Codfish and Chainsaws: Injury Prevention in America's Most Dangerous Industries, Mt. Sinai Selikoff Center for Occupational Health, NY/NJ ERC, Departmental Seminar, March 28, 2018, New York City, NY (Presented with Dr. Julie Sorensen)

Careers in Public Health: Occupational Health, Hartwick College, Careers in Public Health Class, March 5, 2018, Oneonta, NY

The Needle in the Haystack – Occupational Injury Surveillance in America's Most Dangerous Industries, New York Medical College Public Health Spring 2018 Seminar Series, January 24, 2018, Valhalla, NY

NYCAMH and NEC Initiatives, New York Farm Bureau Board of Directors Meeting, August 24, 2017, Albany, NY (Presented with Dr. Julie Sorensen)

Commercial Fishing Safety Research Efforts at NEC, OSU/PNASH Commercial Fishing Safety Monitoring Project Technical Advisory Board Meeting, July 2017, Portland, OR

Impact of Housekeeping on Lead Levels in Indoor Firing Ranges, Northeast Regional Occupational Health Network Conference, May 2017, Chester, CT

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Injury Surveillance in Agriculture and Logging (Lecture), April 2017, Columbia Mailman School of Public Health, NYC, NY

Qualtrics and REDCap: Tools for Project Management and Data Capture, Bassett Medical Center Research Grant Rounds, April 18, 2017, Cooperstown, NY

Research Panel Discussion, 2010-2012 Agricultural Roadway Crashes, Slow Moving Vehicle Symposium, NYS Governors' Traffic Safety Commission, February 21, 2017, Syracuse, NY

Injury Surveillance in Agriculture and Forestry: Chasing the Ambulance to the Hospital (Lecture), December 12, 2016, University of Nebraska Medical Center, Central States- Center for Agricultural Safety and Health, and the Great Plains IDeA Center Network, Omaha, NE.

Establishing a Low-Cost Surveillance System for Agricultural and Logging Injury in the Northeast (Webinar), July 2016, AgriSafe Network

Injury Surveillance in Agriculture and Logging (Lecture), April 2015, Columbia Mailman School of Public Health, NYC, NY

Occupational Injury Surveillance in Agriculture and Logging, September 2015, University at Albany, Environmental Health Sciences Seminar, Albany, NY

Comparing Computer Coding of OIICS against a Visual "Gold Standard" for Farming and Forestry Injury, June 2015, CSTE, Boston, MA

Alternative Sources of Injury Data, May 2015, Northeast Regional Occupational Health Meeting (NEON), Chester, CT

New Surveillance Strategies for Agricultural and Forestry Injury (Lecture), April 2015, Columbia Mailman School of Public Health, NYC, NY

Establishing a Surveillance System for Traumatic Agricultural and Forestry Injury in the Northeast US, SHARP October 2014, Saskatoon, Saskatchewan

Usefulness of Electronic Administrative Datasets for Traumatic Injury Surveillance in Agriculture and Forestry, June 2014, CSTE, Nashville, TN

New Surveillance Strategy for Farming and Forestry Injury, November 2013, APHA Conference, Boston, MA

New Surveillance Strategies for Agricultural and Forestry Injury, October 2013, University at Albany, Environmental Health Sciences Seminar, Albany, NY

Agricultural Injury Surveillance Using Multiple Existing Data Sources, October 2012, APHA American Public Health Association Annual Conference, San Francisco, CA

Northeast Center for Agricultural Health's Efforts in Occupational Epidemiology, October 2012, Northeast Epidemiology Conference, Meredith, NH

Agricultural Injury Surveillance, June 2012, International Society of Agriculture Safety and Health, Burlington, VT

New York Farm Injury Surveillance, October 2011, NIOSH FACE Annual Meeting, Boston, Massachusetts

Epidemiology Work Group Overview, June 2011, NIOSH National Occupational Research Agenda Meeting, Boise, Idaho

NEC Fishing Safety Research Overview, May 2011, Northeast States Occupational Health Surveillance Meeting, Farmington, CT

Environmental and Occupational Health: Technical Experience and Practical Applications of Industrial Hygiene, April 2010, Master's Thesis Defense, University at Albany School of Public Health, Troy, NY

Case Study: Lead Exposure at Indoor Law Enforcement Shooting Ranges, July 2009, NYSDOH Occupational Health Clinic Network Meeting, Troy, NY

Armed and In Danger: Lead Exposure at Indoor Law Enforcement Shooting Ranges, May 28, 2009, NYSDOH Division of Environmental Health Assessment (DEHA) Seminar, Troy, NY

POSTER PRESENTATIONS

What about the rest of them? Their lives mattered too: fatal agricultural injuries not captured by BLS/CFOI, Bryan Weichelt PhD[1], Serap Gorucu PhD[2], John Shutske PhD[3], **Erika Scott PhD[4]**, Rick Burke MPH[1], Emily Redmond[1], Dennis J Murphy PhD[2], Risto Rautiainen PhD[5], ASHCA Summit, March 2020, Las Vegas, NV (conference cancelled due to COVID-19)

Utility of Free-Text Narrative Data in an Occupational Injury Surveillance System for Agriculture, Forestry, and Commercial Fishing, Society for Violence and Injury Prevention (SAVIR) Conference, April 2019, Cincinnati, OH

Lessons Learned from Enrolling a Cohort of Maine Loggers: Survey Methodology for an Active Occupational Injury Surveillance Study, New England College of Occupational and Environmental Medicine (NECOEM) Annual Meeting, November 2018, Boston, MA

Assessing Overall Health and Improving Injury Surveillance of Maine Logging Workers, AgrAbility National Training Workshop (NTW), March 2018, Portland ME (set up by James Carrabba)

Assessing Overall Health and Improving Injury Surveillance of Maine Logging Workers, November 2017, New England College of Occupational and Environmental Medicine Conference, Newton, MA

Motor Vehicle Injuries Involving Agricultural Hazards in New York, June 2016, Council of State and Territorial Epidemiologists, Anchorage, AK

Developing Surveillance Methodology for Agricultural and Logging Injury in New Hampshire Using Electronic Administrative Data Sets, April 2015, University at Albany School of Public Health Poster Day, Rensselaer, NY

Establishing A Surveillance System For Traumatic Agricultural and Forestry Injury in Maine, April 2014, University at Albany School of Public Health Poster Day, Rensselaer, NY

Utility of a New Agricultural Injury Surveillance System to the Emergency Medical Services Community, October 2011, American Public Health Association Annual Conference, Washington, DC

Farm Injury Surveillance Using an EMS-based System: Progress and Preliminary Findings, November 2009, American Public Health Association Annual Conference (Occupational Health and Safety Surveillance Poster Session), Philadelphia, PA, Presented with Giulia Earle-Richardson, PhD

Lead Exposure at Indoor Law Enforcement Shooting Ranges, April 2009, University at Albany School of Public Health Poster Day, Rensselaer, NY

ADVISORY BOARDS

Vermont Farm Health and Safety Coalition, Board of Directors, Vermont Department of Health & Vermont Farm Bureau

AgInjuryNews Steering Committee, Bryan Weichelt, PhD, MBA, National Farm Medicine Center, Marshfield, WI

Risk Information System for Commercial Fishermen - the RISC Fishermen Project Advisory Board, Laurel Kincl, Oregon State University, Corvallis, OR

NEC Commercial Fishing Advisory Board, Northeast Center for Occupational Health and Safety in Agriculture, Forestry, and Fishing, Cooperstown, NY

PROFESSIONAL SOCIETIES

Council of State and Territorial Epidemiologists, Associate Member, 2012-
NIOSH NORA Agriculture, Forestry and Fishing Sector Council, Member, 2011-
International Society for Agricultural Safety and Health (ISASH), Associate Member, 2010-
American Public Health Association (APHA), Member, 2009-
American Society of Safety Engineers (ASSE), Member, 2008-2010
Reviewer, American Journal of Industrial Medicine
Reviewer, Journal of Agromedicine
Reviewer, Injury Epidemiology
Reviewer, New Solutions: A Journal of Environmental and Occupational Health Policy

GRANT FUNDING

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Grant Number K01OH011812-01-00   *Scott (PI)*   *9/1/2019-8/31/2022*
The National Institute for Occupational Safety and Health   *Amount: $323,254*
Documenting the True Cost of Occupational Injury Burden in Agriculture: A Mixed Methods Effort to Improve Injury Surveillance Methods

A lack of information concerning the burden of occupational morbidity and mortality has been recognized by researchers and top policy officials as a critical impediment for the adequate prioritization of health and safety needs among US workers. This is especially true for the agricultural industry as special limitations hinder the quantification of morbidity, economic costs, and associated causal risk factors. The overarching objective of this three-year Mentored Research Scientist Development Award (K01) is to address this critical gap in fully understanding the burden of occupational injury in agriculture as it relates to improving injury surveillance, while gaining the additional training I need to be a fully independent and productive researcher.

Role: Principal Investigator

Grant Number 2U54OH007542-16   *Scott (PI)*   *9/1/2016-8/31/2021*
The National Institute for Occupational Safety and Health
Center for Agricultural Illness and Injury Research, Education and Prevention
Improving Methods for Traumatic Injury Surveillance in Agriculture, Forestry, and Fishing

The goal of this research is to advance the field of injury surveillance forward by improving the methods by which we identify and classify injuries in agriculture, forestry and commercial fishing. This research will focus on several components, 1) to broaden the geographic and industry scope of the current NEC surveillance, 2) to refine electronic search methodology for agricultural, forestry and fishing injuries in administrative data sets and 3) to compare the electronic surveillance method for agriculture to an injury and illness survey for purposes of quality control and validation Having coordinated the last two surveillance research projects at NEC and studying the topic of occupational injury surveillance for my doctorate, I am particularly well suited to act as the project's co-investigator. I am familiar with the nuances of existing administrative data, in particular pre-hospital care reports and hospital discharge data. In addition, I have extensive experience with occupational injury and illness coding and classification and have aided in the creation of training datasets for use in this proposal. The research team provides a diverse range of skill sets and experience, which include advanced statistical methodologies (Bayesian and classical methods), database creation and management, occupational injury and illness coding expertise, industrial hygiene, partnership development – particularly with state agencies, material development and dissemination.

Role: Principal Investigator

Grant Number 2U54OH007542-16   *Scott (PI)*   *9/1/2016-8/31/2021*
The National Institute for Occupational Safety and Health
Center for Agricultural Illness and Injury Research, Education and Prevention
Assessing Overall Health and Improving Injury Surveillance of Maine Logging Workers

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The goal of this research proposal will be to address the considerable lack of injury and health data for logging workers in the northeastern United States. Using previously successful strategies, such as quarterly telephone surveys combined with in-person health screenings, researchers will gather information on traumatic injury events, cumulative trauma and illness and chronic disease. The research team provides a diverse range of skill sets and experience, which include logging health and safety, survey development, provision of health services and screenings, statistical analyses, evaluation, occupational epidemiology, hazard evaluation and partnership development. My expertise is well matched as co-investigator for this proposal. I will apply my expertise in injury epidemiology, industrial hygiene, logging safety and occupational health services to ensure a successful project. As the coordinator of logging safety services for the NEC, I've gained substantial knowledge related to logging hazards, and have forged partnerships with logging related organizations within the Northeast. In addition, I've been researching passive methodologies to track logging related injuries in Maine and New Hampshire, which will further inform this proposal.

Role: Principal Investigator

COMPLETED RESEARCH SUPPORT

2 U54 OH007542-11   Jenkins (PI)   9/1/2011-8/31/2016
The National Institute for Occupational Safety and Health
Center for Agricultural Illness and Injury Research, Education and Prevention
New Surveillance Strategy for Farming and Forestry Injury

This study looks at the feasibility of using existing electronic data sources in six Northeast states for the purposes of agricultural and forestry injury surveillance. Data gathered will be used to estimate injury across the region and to guide prevention and intervention efforts. Long term, this system may also be used to evaluate the effectiveness of such interventions.

Role: Jr. Investigator

1 R49 CE002096   Scott (PI)   11/25/2013-11/24/2014 (extended 2015)
National Center for Injury Prevention and Control, Centers for Disease Control and Prevention
Center for Injury Epidemiology and Prevention at Columbia University Medical Center
Exploring Motor Vehicle Injuries Involving Agricultural and Forestry Hazards in New York

To better quantify agricultural and forestry related roadway incidents, NYCAMH researchers will obtain and analyze electronic records from the NYS DMV Accident Reports (MV-104) for 2008-2011. Agricultural and forestry related cases will be identified using two methods, 1) identifying agricultural and forestry related codes within variables (e.g. vehicle type-FV for farm vehicle, or make-John Deere, Case IH, etc.) and 2) using a keyword search within narrative fields. Testing methods will include converting records into spatial reference points in a Geographic Information System using the GPS coordinates and comparing these points with the location description. A summary of the results will help establish the overall quality of the available locational information, thus enabling subsequent work aimed emergency service response and prevention and farmer/driver education.

Role: Principal Investigator

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5 U50 OH07542-05   Earle-Richardson (PI)   8/30/2007 - 8/29/2011
The National Institute for Occupational Safety and Health
Center for Agricultural Illness and Injury Research, Education and Prevention
Statewide Surveillance of New York Farm Injuries – an EMS-based method

This surveillance effort develops a new methodology to track farm-related injuries and fatalities in New York by using centralized EMS ambulance reports. This data are supplemented by intensive community surveillance in a sample of agricultural counties throughout the state. The information gathered will be used to compile a statewide estimate of agricultural injury rates for New York, and researchers will assess the feasibility and completeness of such a surveillance method.

Role: Research Coordinator