

# Jonathan Davis

College of Public Health Curriculum Vitae  
Department of Occupational and Environmental Health  
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## Educational and Professional History

### Degrees Earned

2007	BS in Chemistry, University of Michigan, Ann Arbor, Michigan
2011	MS in Occupational and Environmental Health Science, Eugene Applebaum College of Pharmacy and Health Sciences, Wayne State University, Detroit, Michigan
2017	PhD in Epidemiology, College of Public Health, University of Iowa, Iowa City, Iowa

### Employment History

2014 - 2016	Graduate Research Assistant, University of Iowa, Iowa City, Iowa
2017 - 2021	Postdoctoral Research Scholar, University of Iowa, Iowa City, Iowa
2021 - 2024	Assistant Professor (Research Track), Department of Occupational and Environmental Health, University of Iowa, Iowa City, Iowa
2024 - Present	Assistant Professor, Department of Occupational and Environmental Health, University of Iowa, Iowa City, Iowa

## Teaching

### Course Teaching

#### University of Iowa

Fall 2017	Injury Prevention, OEH:4510, Credit Hours: 3
Fall 2018	Injury Prevention, OEH:4510, Credit Hours: 3
Fall 2018	Occupational Health, OEH:5620, Credit Hours: 3
Spring 2019	Injury Epidemiology, OEH:6520, Credit Hours: 3
Summer 2019	Agricultural Safety and Health: The Core Course
Fall 2019	Injury Prevention, OEH:4510, Credit Hours: 3
Fall 2019	Occupational Health, OEH:5620, Credit Hours: 3
Spring 2020	Research Design in OEH, OEH:7060, Credit Hours: 3
Fall 2020	Injury Prevention, OEH:4510
Fall 2020	Injury Prevention, OEH:4510, Credit Hours: 3
Spring 2021	Injury Epidemiology, OEH:6520, Credit Hours: 3
Spring 2021	Research Design in OEH, OEH:7060, Credit Hours: 3

Summer 2021	Agricultural Safety and Health: The Core Course
Fall 2021	Injury Prevention, OEH:4510, Credit Hours: 3
Fall 2021	Principles of Scholarly Integrity, CPH:7270/7604
Spring 2022	Principles of Scholarly Integrity, CPH:7270/7604
Spring 2022	Research Design in OEH, OEH:7060, Credit Hours: 3
Spring 2024 - Spring 2024	Injury Epidemiology, OEH:6520, Credit Hours: 3
Fall 2024 - Fall 2024	Public Health Surveillance Mechanisms, Applications, and Data, EPID: 5540, Credit Hours: 3
Spring 2025	Topics in Agriculture and Rural Health, OEH:6120:0001, Credit Hours: 1, Enr: 6, Percent of Course: 100%
Spring 2025	Problems in OEH, OEH:7010:0002, Credit Hours: 2, Enr: 4, Percent of Course: 100%
Fall 2025	Interpreting OEH Research, OEH:7070:0001, Credit Hours: 3, Enr: 4, Percent of Course: 100%
Spring 2026	Health, Work, and the Environment, CPH:3400:0AAA, Enr: 99, Percent of Course: 100.0%

## Scholarship/Professional Productivity

### Publications or creative works

#### Peer-reviewed papers and journal articles

1. **Davis, J.**, Casteel, C., Hamann, C. & Peek-Asa, C. (2018). Risk of motor vehicle crash for older adults after receiving a traffic charge: A case-crossover study. *Traffic Inj Prev* 19 (5) 506-12.
2. Huizinga, N. C., **Davis, J.**, Gerr, F. & Fethke, N. B. (2019). Association between Occupational Injury and Subsequent Employment Termination among Newly Hired Manufacturing Workers. *Int J Environ Res Public Health* 16 (3).
3. **Davis, J.**, Casteel, C., Nocera, M., Summers, R. & Peek-Asa, C. (2019). Differences in Robbery Prevention Strategies Across Retail Business Types. *J Occup Environ Med* 61 (2) e61-e4.
4. Pelaez, C. A., **Davis, J.**, Spilman, S. K., Guzzo, H. M., Wetjen, K. M., Randell, K. A. & et al (2019). Who Hurts More? A Multicenter Prospective Study of In-Hospital Opioid Use in Pediatric Trauma Patients in the Midwest. *J Am Coll Surg* 229 (4) 404-14.
5. **Davis, J.**, Hamann, C., Butcher, B. & Peek-Asa, C. (2020). The Medical Referral Process and Motor-Vehicle Crash Risk for Drivers with Dementia. *Geriatrics (Basel)* 5 (4).
6. Rohlman, D. S., **Davis, J. W.**, Ismail, A., Abdel Rasoul, G. M., Hendy, O., Olson, J. R. & et al (2020). Risk perception and behavior in Egyptian adolescent pesticide applicators: an intervention study. *BMC Public Health*.
7. **Davis, J.**, Hamann, C., Butcher, B. D. & Peek-Asa, C. (2021). Medical referral and license disposition for drivers in Iowa. *J Safety Res* 76 83-9.
8. **Davis, J.**, Peek-Asa, C., Dale, A. M., Zhang, L., Casteel, C., Hamann, C. & Evanoff, B. A. (2021). Determining occupation for National Violent Death Reporting System records: An evaluation of autocoding programs. *Am J Industrial Med* 64 (12) 1018-1027.
9. Peek-Asa, C., Zhang, L., Hamann, C., **Davis, J.** & Casteel, C. (2021). The prevalence of work-related suicides varies by reporting source from the National Violent Death Reporting System. *Am J Ind Med*.

10. **Davis, J.**, Casteel, C. & Menéndez, C. C. (2021). Impact of a crime prevention ordinance for small retail establishments. *Am J Ind Med* 64 (6) 488-95.
11. **Davis, J.**, Casteel, C. & Peek-Asa, C. (2021). In-Hospital Fall and Fracture Risk with Conditions in the Elixhauser Comorbidity Index: An Analysis of State Inpatient Data. *J Patient Saf* 17 (8) e1779-e1784.
12. Peek-Asa, C., Zhang, L., Hamann, C., **Davis, J.** & Schwab-Reese, L. (2021). Characteristics and circumstances associated with work-related suicides from the National Violent Death Reporting System, 2013 – 2017. *Inj J Environ Res Public Health* 18 (18) 9538.
13. **Davis, J.** & Rohlman, D. (2021). Winter Weather-Related Crashes during the Commute to Work: An Opportunity for Total Worker Health®. *Int J Environ Res Public Health* 18 (19) 10268.
14. **Davis, J.**, Young, T., Casteel, C. & et al (2022). Pediatric Unintentional Fall-Related Injuries in a Statewide Trauma Registry. *Pediatric Emergency Care* 38 (2) e961-e966.
15. Hamann, C. J., Wendt, L., **Davis, J.**, Peek-Asa, C., Jansson, S. & Cavanaugh, J. E. (2022). Should we throw the book at 'em? Charge combinations and conviction rates among alcohol-influenced drivers involved in motorcycle crashes. *Journal of Safety Research* 83 294-301. [DOI: 10.1016/j.jsr.2022.09.003](https://doi.org/10.1016/j.jsr.2022.09.003). [PMID: 36481020](https://pubmed.ncbi.nlm.nih.gov/36481020/).
16. **Davis, J.**, Casteel, C., Brown, G. & Carnahan, R. (2023). Fracture risk and opioid use in patients aged 17-64 years: An analysis of administrative claims data. *Pharmacotherapy*, 43(9):913-921.
17. Rauscher, K., Casteel, C., **Davis, J.**, Myers D. & Peek-Asa, C. (2023). Prevalence of workplace violence against young workers in the United States. *Am J Ind Med*, 66(6):462-471.
18. Soupene, V. A., **Davis, J.**, Fogner, A. & Casteel, C. (2023). Circumstances contributing to Installation, Maintenance, and Repair Worker Death by Suicide. *Journal of Occupational and Environmental Medicine*, 65(5):394-400.
19. Eadeh, H., **Davis, J.**, Ismail, A. A., Abdel Rasoul, G. M., Hendy, O. M., Olson, J. R., Bonner, M. R. & Rohlman, D. (2023). Evaluating How Occupational Exposure to Organophosphates and Pyrethroids Impacts ADHD Severity in Egyptian Male Adolescents. *Neurotoxicology*, 95:75-82. [DOI: 10.1016/j.neuro.2023.01.001](https://doi.org/10.1016/j.neuro.2023.01.001). [PMID: 36621468](https://pubmed.ncbi.nlm.nih.gov/36621468/).
20. Mendez, E., **Davis, J.**, Bonner, M., Rasoul, G.A., Ismail, A., Hendy, O., Olson, J. & Rohlman D.S. (2024). Impact of Chlorpyrifos Exposure on Lung Function in Egyptian Adolescent Agriculture Workers. *Arch Environ Occup Health*, 79(3-4):121-129.
21. Nichols, C.E. & **Davis, J.** (2024). The Women Farmer Stress Inventory: Examining women farmer stress in the US Corn Belt. *Journal of Rural Health*, 40(3):457-466.
22. Rogers, E.M. & **Davis, J.** (2024). The Research Utility of the National Violent Death Reporting System for Understanding Homicide Trends. *Journal of Contemporary Criminal Justice*, 40(1), 26-47.
23. Hamann, C., **Davis, J.**, Pae, G., Zhu, M., Shill, G.H., Tefft, B., & Cavanaugh, J. (2026). Examination of Driver License Renewal Policies and Older Driver Crash and Injury Rates by Rurality. **Journal of Safety Research** (accepted Nov 2025), Available at <http://dx.doi.org/10.2139/ssrn.5814602>.
24. Hudson H.L. & **Davis J.** (2025). Status of mental health and working conditions among workers employed in small businesses in 2018 and 2022. *J Occup Environ Med*, Epub ahead of print.
25. Pae G., **Davis J.**, Cavanaugh J., O'Neal E., & Hamann C. (2025). Exploring pathways linking driving stress to self-regulation among older adults: A structural equation modeling approach using survey data. *J Safety Res*, 95:67-75.
26. Soupene V.A., **Davis J.**, Platt J.M., Romitti P.A., Cavanaugh J.E., Casteel C. 2025. Suicide rates by lethal means and occupational group among US workers, 2013-2019. *J Occup Environ Med*. Published online May 16, 2025. doi:10.1097/JOM.0000000000003450
27. Vakkalanka P.J., Soupene V.A., Ahmed A., & **Davis J.** (2025). Mental Health and Substance Use Clinical Risk Factors Associated with Emergency Department and Emergency Medical Services Involvement among Decedents of Suicide by Poisoning. *Injury Prevention*, 21;31(4):312-320
28. Soupene V.A., Hays T., **Davis, J.** & Vakkalanka, P. J. (2025). Factors Associated with Multiple Death Suicides among Rural US Decedents. *Journal of Rural Health*, 41(1):e70003.

29. Vakkalanka, P. J., Santos, L., **Davis, J.** & Casteel, C. (2025) Examining Contextual Differences in Suicide by Rural-Urban Designation and Military Status, 2009-2019: A Cross Sectional Analysis of the National Violent Death Reporting System. *Injury Prevention*, 31(2):121-127.
30. Hamann, C.J. , **Davis, J.**, Pae, G., Zhu, M., Shill, G.H., Tefft, B. & Cavanaugh J.E. (2025). Impact of driver licensing renewal policies on older driver crash involvement and injury rates in 13 states, 2000–2019. *Inj Epidemiology* 12(1):3.
31. Pae, G., **Davis, J.**, Cavanaugh, J.E., Zhu, M. & Hamann, C.J. (2025). Predictors of driving errors contributing to crashes in older adults across age groups, 2010 to 2020. *Journal of Safety Research*, 92: 40-47.
32. Hamann, C.J., Jansson, S., Wendt, L., Reyes, M., **Davis, J.**, Cavanaugh, J.E. & Peek-Asa, C. (2025). Charge combinations and conviction rates among alcohol-influenced drivers involved in motor vehicle crashes in Iowa. *Journal of Safety Research*, 92: 375-384.

## Research Interests/Current Projects

- Preventing work-related suicide
- Overdose surveillance
- Occupational and Environmental Epidemiology
- Injury prevention
- Administrative data analysis

## Grants and Contracts

### Active (Funded)

1. IDPH National Violent Death Reporting System; CDC/NCIPC - Iowa Department of Public Health; Davis, J, Conroy (Principal Investigator)
  - Sep 1, 2014 - Aug 31, 2022
2. Iowa-Overdose Data to Action; CDC/NCIPC - Iowa Department of Public Health Iowa Department of Public Health; Davis, J, Hibben (Principal Investigator)
  - Sep 1, 2019 - Aug 31, 2022
3. Implementation of a Medication Care Plan to Reduce Unintentional Injury among Rural Older Adults; CDC/NCIPC; Davis, J, Kennelty (Principal Investigator), Casteel (Principal Investigator)
  - Sep 30, 2018 - Sep 29, 2022

### Completed

1. Heartland Center for Occupational Health and Safety, Pilot Project: Cancer in Children of Agricultural Health Study Applicators; CDC/NIOSH; Davis, J, O'Shaughnessy (Principal Investigator)
  - Jul 1, 2014 - Jun 30, 2015
2. Vulnerability of the Adolescent Brain to Organophosphorus Pesticides; NIH/NIEHS; Davis, J, Rohlman (Principal Investigator)
  - Mar 4, 2013 - Mar 31, 2017
3. Injury Prevention Research Center; CDC/NCIPC; Davis, J, Peek-Asa (Principal Investigator)
  - Aug 1, 2012 - Jul 31, 2020
4. Healthier Workforce Center of the Midwest (HWC); CDC/NIOSH; Davis, J, Rohlman (Principal Investigator)
  - Sep 1, 2016 - Aug 31, 2021

## Presentations

### Invited Lectures

- Aug 2015 Davis, J. Survey of Iowa Quality Lead and Nurse Managers on Fall Risk Assessment. Presented at Hospitals Leading Communities in Healthcare Transformation, Hospital Engagement Network 2.0 Learning Community.
- Apr 2016 Davis, J. Moving Violations and Older Adults. Presented at Iowa Governor's Traffic Safety Bureau Annual Conference.
- Apr 2020 Conroy, T., Davis, J. & Roth, L. Finding Ways to Prevent Violent Death by Understanding Contributing Circumstances. Presented at Governor's Conference on Public Health.
- Nov 2020 Roth, L. & Davis, J. Iowa Violent Death Reporting System. Presented at Iowa Association of County Medical Examiners fall meeting.
- Oct 2022 Determining Occupation Specific Risk Factors for Suicide. Presented at Yale Occupational and Environmental Medicine Grand Rounds, Virtual.

### Oral Presentations

- Oct 2019 Davis, J., Hamann, C., Butcher, B. & Peek-Asa, C. Licensure Outcome and Screening Tests during Review of Older Driver Fitness-to-drive. Presented at Road Safety and Simulation.
- Apr 2020 Davis, J., Hamann, C., Butcher, B. & Peek-Asa, C. License Denial and Motor Vehicle Collision for Drivers with Dementia. Presented at Society for Advancement of Violence and Injury Research.
- Nov 2020 Barnett, A., Davis, J. & Rohlman, D. Sources of Pesticide Exposure among Egyptian Adolescents. Presented at Midwest Rural Agricultural Safety and Health Conference.
- May 2022 **Davis, J.**, Evanoff, B., Zhang, L. & Peek-Asa, C. Circumstances Contributing to Construction Worker Death from Suicide. Presented at National Occupational Injury Research Symposium, NIOSH, Virtual.
- Aug 2022 Soupene, V., **Davis, J.** & Casteel, C. Circumstances contributing to Installation, Maintenance, and Repair Worker Death by Suicide. Presented at Safe States Injury and Violence Prevention Conference, Orlando, Florida.
- Oct 2022 **Davis, J.**, Evanoff, B., Zhang, L., Dale, A., Hamann, C., Rohlman, D. & Peek-Asa, C. Using the National Violent Death Reporting System to determine Occupation Specific Risk Factors for Suicide: An example using Farming, Fishing, and Forestry Workers. Presented at 3rd International Symposium to Advance Total Worker Health®, NIOSH, Maryland.
- Feb 2024 Dale, A.M., **Davis, J.**, Rohlman, D. & Evanoff, B. (2024). Implementing Multifaceted and Evidence-Based Approaches to Address Suicide Prevention in the Construction Industry. Construction Working Minds Summit. Kansas City, MO.

### Posters

- Jun 2015 Davis, J., Casteel, C., Hamann, C. & Peek-Asa, C. Moving Violations and Risk of Motor Vehicle Crash for Older Adults: A Case-Crossover Study. Society for Epidemiological Research.
- Jun 2018 Davis, J., Hamann, C., Butcher, B. & Peek-Asa, C. Licensure Outcomes for Drivers Referred to the Enhanced Medical Referral and Evaluation Management System in Iowa. Society for Epidemiological Research.

- Aug 2018 Davis, J., Hamann, C., Butcher, B. & Peek-Asa, C. The Ability of Screening Tests to Predict On-road Driving Test Performance. Presented at Traffic Records Forum.
- Apr 2019 Davis, J., Casteel, C., Carnahan, R. & Brown, G. Risk of Fracture and Opioid Dose: An Analysis of Health Insurance Claims Data. Society for Advancement of Violence and Injury Research.
- Nov 2022 Corry, D., **Davis, J.** & Casteel, C. Circumstances of Suicides in High-Risk Occupation Groups Among Arts, Design, Entertainment, Sports, and Media Workers: National Violent Death Reporting System, 2013-2018. Presented at University of Iowa College of Public Health Research Week, Iowa City, Iowa.
- Nov 2022 **Davis, J.**, Garcia, C., Kennelty, K., Resit, J., Fogner, A., Klinger, E., Carnahan, R. & Casteel, C. Medication Lists to Identify Eligibility for Deprescribing in the Medication Empowerment and Deprescribing for Safety Study. Presented at APHA Annual Conference, Boston, Massachusetts.