

## CURRICULUM VITAE

### DAVID I. DOUPHRATE, PhD, MPT, MBA, CPE, CSP

Associate Professor

The University of Texas Health Science Center at Houston

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### EDUCATION

- 1992 B.S., Kinesiology, Texas A&M University, College Station, TX
- 1993 B.S., Health Care Sciences, University of Texas Medical Branch, Galveston, TX
- 1995 M.P.T., Physical Therapy, University of Texas Medical Branch, Galveston, TX
- 2003 M.B.A., Business Administration, University of Mary Hardin-Baylor, Belton, TX
- 2008 Ph.D., Environmental Health Sciences (Ergonomics emphasis)  
Colorado State University, Fort Collins, CO  
Dissertation: "Analysis of Agriculture Injuries Using Workers' Compensation Data"
- 2008 - 2009 Post-Doctoral Fellow, Department of Environmental and Radiological Health Sciences, Colorado State University, Fort Collins, CO

### PROFESSIONAL EXPERIENCE

- 2017 - present **Associate Professor** (with tenure), Department of Epidemiology, Human Genetics and Environmental Sciences, The University of Texas Health Science Center at Houston, School of Public Health.
- 2010 - 2017 **Assistant Professor** (tenure track), Department of Epidemiology, Human Genetics and Environmental Sciences, The University of Texas Health Science Center at Houston, School of Public Health.
- 2013 - present **Adjunct Faculty**, Department of Extension, Animal Sciences, and Natural Resources, College of Agricultural, Consumer, and Environmental Sciences. New Mexico State University, Clovis, NM
- 2011 - present **Adjunct Faculty**, Occupational Health Sciences, The University of Texas Health Science Center at Tyler, TX
- 2010 - present **Adjunct Faculty**, Department of Environmental and Radiological Health Sciences, Colorado State University, Fort Collins, CO

- 2009 - 2010     **Assistant Professor** (non-tenure track), Department of Environmental and Radiological Health Sciences, Colorado State University, Fort Collins, CO
- 2008 - 2009     **Scientific Coordinator**, High Plains Intermountain Center for Agricultural Health and Safety, Colorado State University, Fort Collins, CO
- 2003 - 2008     **Graduate Research Assistant**, Colorado State University, Ft. Collins, CO
- 2004 - 2007     **Physical Therapist**, Ray Physical Therapy, Ft. Collins, CO
- 2002 - 2003     **Director of Rehabilitation Services**, Metroplex Health System, Killeen, TX
- 1999 - 2001     **Clinic Manager**, East Texas Medical Center, Canton, TX
- 1998 - 1999     **Director of Therapy Services**, Trinity Valley Medical Center, Palestine, TX
- 1997 - 1998     **Clinic Manager**, East Texas Medical Center, Canton, TX
- 1995 - 1997     **Physical Therapist**, East Texas Medical Center, Tyler, TX

**PROFESSIONAL LICENSE/CERTIFICATION**

- 1995 - present   Physical Therapist, State of Texas, License #1098598
- 2006             OSHA 10-hour Training in Construction Safety and Health
- 2007             OSHA Occupational Safety and Health Standards for General Industry
- 2009 - present   Authorized OSHA General Industry Outreach Trainer
- 2013             Lean Six Sigma-Black Belt Certificate
- 2014 - present   Certified Professional Ergonomist (CPE #1663), Board of Certification in Professional Ergonomics
- 2015 - present   Certified Safety Professional (CSP #29921), Board of Certified Safety Professionals

**HONORS AND AWARDS**

- 2003 - 2008     NIOSH Traineeship, Mountain and Plains Educational and Research Center, Department of Environmental and Radiological Health Sciences, Colorado State University, Fort Collins, CO
- 2006, 2008     Outstanding Graduate Student Researcher, Department of Environmental and Radiological Health Sciences, Colorado State University, Fort Collins, CO
- 2014             Nominated for Outstanding Reviewer, Journal of Agromedicine

## **PROFESSIONAL AFFILIATIONS**

American Society of Safety Professionals

## **PROFESSIONAL INTERESTS**

Prevention of work-related injury and illness  
Occupational ergonomics and safety  
Safety management and leadership  
Ergonomic assessment  
Occupational health and safety leadership and management  
Employment testing  
Work disability  
Worker performance and efficiency  
Worker physiology  
Agricultural injury and illness prevention

## **ACTIVE GRANTS & PROJECTS AS KEY PERSONNEL**

- 2016 - 2021 **Project Title:** Occupational Safety Management and Leadership on Large-Herd Dairy Farms; Intervention Core Project of the High Plains and Intermountain Center for Agricultural Health and Safety (HICAHS). **Code:** U54OH008085-13. **PI:** David Douphrate, PhD. **Center Director:** Stephen Reynolds, PhD. **Funding Agency:** CDC/NIOSH. **Total Costs** (subcontract): \$1,175,741 **Type:** RO1 Level. **Role:** Principal Investigator. **Percent Effort:** 30%.
- 2016 - 2021 **Project Title:** High Plains and Intermountain Center for Agricultural Health and Safety (HICAHS); Planning and Evaluation Core-Center Administration. **Code:** U54OH008085-13. **Center Director:** Stephen Reynolds, PhD. **Funding Agency:** CDC/NIOSH. **Total Costs:** \$82,778. **Role:** Co-Investigator and Associate Director. **Percent Effort:** 8%.
- 2016 - 2021 **Project Title:** Physical Exposures and Musculoskeletal Symptoms Among Logging Machine Operators; Basic/Etiology Core Project of the Southwest Center for Agricultural Health, Injury Prevention and Education (SW Ag Center). **Code:** U54OH007541-16. **PI:** David Douphrate, PhD. **Center Director,** Jeff Levin, MD. **Funding Agency:** CDC/NIOSH. **Total Costs** (subcontract): \$699,995 **Type:** RO1 Level. **Role:** Principal Investigator. **Percent Effort:** 25%.
- 2016 - 2021 **Project Title:** Southwest Center for Agricultural Health, Injury Prevention and Education (SW Ag Center); Planning and Evaluation Core-Center Administration. **Code:** U54OH007541-16. **Center Director:** Jeff Levin, MD. **Funding Agency:** CDC/NIOSH. **Total Costs** (subcontract): \$82,778. **Role:** Co-Investigator and Deputy Director. **Percent Effort:** 8%
- 2016 - 2018 **Project Title:** Occupational Exposures of Tree Planters in the Forestry Services Sector; Basic/Etiology Core Project of the Southwest Center for Agricultural Health, Injury Prevention and Education (SW Ag Center). **Code:** U54OH007541-16. **PI:** Vanessa Casanova: PhD. **Center Director:** Jeff Levin, MD. **Funding Agency:** CDC/NIOSH. **Total Costs** (subcontract): \$47,488. **Type:** RO3 Level **Role:** Co-Investigator. **Percent Effort:** 10%.

- 2011 - 2017 **Project Title:** Exposure Assessment and Intervention Analysis in Industrialized Dairy Parlors. **Code:** U54OH008085-12. **PI:** David Douphrate, PhD. Center Director: Stephen Reynolds, PhD. **Funding Agency:** CDC/NIOSH/CSU: **Total Costs** (subcontract): \$668,953. **Type:** RO1 level project. **Role:** Principal Investigator. **Percent Effort:** 30%
- 2014 - 2017 **Project Title:** Development of Safety Management and Leadership Training Program for Logging Contractors. **Code:** U01OH010815-03. **PIs:** David Douphrate, PhD and Vanessa Casanova, PhD. **Funding Agency:** CDC/NIOSH/UTHSC-Tyler. **Total Costs** (subcontract): \$374,989; **Type:** RO1 Level. **Role:** Principal Investigator (MPI). **Percent Effort:** 20%
- 2015 - 2020 **Project Title:** The Impact of Thermal Load on PFD Use Among Shrimp Fishermen; Basic/Etiology Core Project of the Southwest Center for Agricultural Health, Injury Prevention and Education (SW Ag Center). **Code:** U54OH007541-16. **PI:** Ann Carruth, DNS. Center Director: Jeff Levin, MD. **Funding Agency:** CDC/NIOSH. **Total Costs:** \$89,101 **Type:** RO1 Level. **Role:** Co-Investigator. **Percent Effort:** 8%.
- 2016 - 2017 **Project Title:** Safety Training Among Dairy Workers Using Mobile Learning Technologies **Code:** SH-29638-16-60-F-48. **PI:** David Douphrate, PhD **Funding Agency:** DOL/OSHA, Susan Harwood Capacity Generating Grant: **Total Budgeted:** \$116,248. **Role:** Principal Investigator. **Percent Effort:** 10%
- 2015 - 2020 **Project Title:** Southwest Center for Occupational and Environmental Health Education and Research Center (NIOSH-ERC). **Code:** T42OH008421. **Center Director and PI:** Elaine Symanski, PhD. **Funding Agency:** CDC/NIOSH: **Total Costs:** \$6,921,775. **Role:** Pilot Projects Research Training Program (PPRTP) Director; **Percent Effort:** 10%

#### **PENDING GRANTS AND CONTRACTS**

- 2018 - 2023 **Project Title:** Health Services Research Training Program at UTHealth **Center Director and PI:** Xianglin Du. **Funding Agency:** NIH/AHRQ: **Total Costs:** In development. **Role:** Instructor.

#### **SUBMITTED PROJECTS UNDER REVIEW**

none

#### **COMPLETED PROJECTS**

- 2015 - 2016 **Project Title:** Safety Training Among Dairy Workers Using Mobile Learning Technologies. **Code:** SH-27689-15-60-F-48. **PI:** David Douphrate, PhD. **Funding Agency:** DOL/OSHA, Susan Harwood Targeted Topic Training Follow-on Grant. **Total Costs:** \$126,000 **Role:** Principal Investigator. **Percent Effort:** 25%
- 2011 - 2016 **Project Title:** Enhancing Training Effectiveness in Industrialized Dairy Production. **Code:** U54OH008085. **PI:** John Rosecrance, PhD. Center Director: Stephen Reynolds, PhD. **Funding Agency:** CDC/NIOSH/CSU.

- Total Costs** (subcontract): \$45,000. **Role:** Co-Investigator. **Percent Effort:** 6%
- 2012 - 2014 **Project Title:** Clinical Investigation of Hearing Injuries, Noise Exposures, and Cost Burden in Active Duty US Military Service Members.  
**PI:** Sharon Cooper, PhD. **Funding Agency:** Air Force Research Laboratory.  
**Total Costs:** \$1,297,082. **Role:** Co-Investigator. **Percent Effort:** 20%
- 2014 - 2015 **Project Title:** Clinical Investigation of Hearing Injuries, Noise Exposures, and Cost Burden in Active Duty US Military Service Members. TASKs 1 and 2.  
**PI:** David Gimeno, PhD. **Funding Agency:** Air Force Research Laboratory.  
**Total Costs:** \$390,807. **Role:** Co-Investigator. **Percent Effort:** 20%
- 2011 - 2015 **Project Title:** Southwest Center for Occupational and Environmental Health, Education and Research Center (NIOSH-ERC). **Code:** T42OH008421.  
**Center Director and PI:** Elaine Symanski, PhD. **Funding Agency:** CDC/NIOSH. **Total Costs:** \$4,499,330. **Role:** Program Instructor and Pilot Projects Research Training Program Director (final year). **Percent Effort:** 2% Years 1-4 and 10% in Year 5
- 2014 - 2015 **Project Title:** Safety Training Among Dairy Workers Using Mobile Learning Technologies. **Code:** SH-26326-14-60-F-48. **PI:** David Douphrate, PhD.  
**Funding Agency:** DOL/OSHA Susan Harwood Targeted Topic Training Grant. **Total Costs:** \$140,000. **Role:** Principal Investigator. **Percent Effort:** 25%.
- 2013 **Project Title:** Safety Leadership and Management Practices among Large-Herd Dairy Owners. **Code:** T42OH008421. **PI:** David Douphrate, PhD.  
**Funding Agency:** CDC/NIOSH through the Southwest Center for Occupational and Environmental Health, Pilot Projects Research Training Program (PPRTP). **Total Costs:** \$10,000. **Role:** Principal Investigator.  
**Percent Effort:** No salary support.
- 2012 - 2014 **Project Title:** Injury Risk Assessment Among East Texas Forestry Workers. **Code:** U50OH008085-04A1. **PI:** David Douphrate, PhD. **Funding Agency:** CDC/NIOSH through The Southwest Center for Agricultural Health, Injury Prevention, and Education Pilot Project Program. **Total Costs:** \$15,000.  
**Role:** Principal Investigator. **Percent Effort:** 7%
- 2011 - 2012 **Project Title:** Safe Patient Handling Among Healthcare Workers. **Code:** SH-22316-SH1. **PI:** Lisa Pompeii, PhD. **Funding Agency:** DOL/OSHA, Susan Harwood Targeted Topic Training Program. **Total Award:** \$165,000. **Role:** Co-Investigator. **Percent Effort:** 10%
- 2007 - 2012 **Project Title:** Injury Risk Analysis in Large-Herd Dairy Parlors. **Code:** U50OH008085. **PI:** David Douphrate, PhD. **Center Director:** Stephen Reynolds, PhD. **Funding Agency:** CDC/NIOSH/CSU. **Total Costs:** \$589,104. **Type:** RO1 Level. **Role:** Project Coordinator. **Percent Effort:** 30%
- 2009 - 2011 **Project Title:** Assessment of Muscular Force Exposures to the Upper Extremity Among Dairy Parlor Workers. **PI:** David Douphrate, PhD. **Funding**

**Agency:** CDC/NIOSH through the Mountain and Plains Educational and Research Center Pilot Project Program. **Total Costs:** \$20,000. **Role:** Principal Investigator. **Percent Effort:** 5%

2009 - 2011 **Project Title:** Direct Measurement of Physical Risk Factors of Awkward Postures and Repetition Involving Large Herd Dairy Parlor Workers. **PI:** David Douphrate, PhD. **Funding Agency:** CDC/NIOSH through High Plains and Intermountain Center for Agricultural Health and Safety Pilot Project Program. **Total Costs:** \$12,823. **Role:** Principal Investigator. **Percent Effort:** 5%

2005 - 2007 **Project Title:** Costs Associated with Tractor-Related Injuries in Agriculture: An Analysis of Workers' Compensation Data, National Tractor Safety Initiative. **PI:** Stephen Reynolds, PhD. **Funding Agency:** CDC/NIOSH through High Plains and Intermountain Center for Agricultural Health and Safety. **Total Costs:** \$250,000 **Role:** Co-Investigator. **Percent Effort:** 10%

2004 - 2005 **Project Title:** The Epidemiology of Musculoskeletal Injuries Among Agricultural Workers: An Analysis of Colorado Workers Compensation Data. **PI:** David Douphrate, PhD. **Funding Agency:** CDC/NCIPC through the Colorado Injury Control Research Center Pilot Project Program. **Total Costs:** \$10,000. **Role:** Principal Investigator. **Percent Effort:** 10%.

2004 - 2005 **Project Title:** Musculoskeletal Injuries Among Agricultural Workers **PI:** David Douphrate, PhD. **Funding Agency:** CDC/NIOSH through High Plains and Intermountain Center for Agricultural Health and Safety Pilot Project Program. **Total Costs:** \$10,000. **Role:** Principal Investigator. **Percent Effort:** 5%

#### **PROJECTS SUBMITTED AND NOT FUNDED**

2014 - 2017 **Project Title:** Multi-state Industry Specific Learning Consortium (MILK) **PI:** Robert Hagevoort PhD and David Douphrate, PhD. **Funding Agency:** DOL. **Total Budgeted:** \$577,763. **Role:** Principal Investigator (MPI)

2014 - 2016 **Project Title:** Safety Management and Leadership on Large-Herd Dairy Farms. **Code:** R21OH010650. **PI:** David Douphrate, PhD **Funding Agency:** CDC/NIOSH; **Total Costs:** \$417,020. **Type:** R21 **Role:** Principal Investigator

2015 - 2016 **Project Title:** Latin American GEOHealth Hub Collaborative (LAGHC): USA **PI:** George Delclos, MD. **Funding Agency:** NIH/Fogarty. **Total Costs:** \$1,407,900. **Role:** Co-Investigator

2013 **Project Title:** Evaluation of a Novel Human Motion Capture System for Field Based Musculoskeletal Injury Reduction. **PI:** David Douphrate, PhD **Funding Agency:** Institute for Integration of Medicine and Science. **Role:** Principal Investigator

#### **PEER REVIEWED PUBLICATIONS (\*graduate student, #corresponding)**

1. Rodriguez A\*, Hagevoort R, Leal D, Pompeii L, **Douphrate D**<sup>#</sup>. (2018). Using mobile technology to increase safety awareness among dairy workers in the United States. *Journal of Agromedicine*. Accepted for publication. DOI: 10.1080/1059924X.2018.1502704
2. Pinion C\*, Klyza J, Brewer S, **Douphrate D**. (2018). North American engineering, procurement, fabrication and construction worker safety climate perception affected by job position. *Safety*.4(2):14.
3. Oyama S, Sosa S\*, Campbell R, Ortega C, **Douphrate D**. (2017). Evaluation of upper body kinematics and muscle activity during milking attachment task. *International Journal of Industrial Ergonomics*. 61:101-106. DOI: 10.1016/j.ergon.2017.05.012.
4. **Douphrate D**, Gimeno Ruiz de Porras D, Nonnenmann M, Hagevoort R, Reynolds S, Rodriguez A\*, Fethke N. (2017). Effects of milking unit design on upper extremity muscle activity during attachment among U.S. large-herd parlor workers. *Applied Ergonomics*. 58:482-490. DOI: 10.1016/j.apergo.2016.08.008.
5. Pinion C\*, Brewer S, **Douphrate D**, Whitehead L, DeliliFraine J, Taylor W, Klyza J. (2017). The impact of job control on employee perception of management commitment to safety. *Safety Science*. 93:70-75. DOI: 10.1016/j.ssci.2016.11.015.
6. Conway S, Pompeii L, Casanova V, **Douphrate D**. (2017). A qualitative assessment of safe work practices in logging in the Southern U.S. *American Journal of Industrial Medicine*. 60(1): 58-68. DOI: 10.1002/ajim.22656.
7. Nonnenmann M, Gimeno D, Levin J, **Douphrate D**, Boggaram V, Schaffer J, Gallagher M, Hornick M, Reynolds S. (2016). Pulmonary function and airway inflammation among dairy parlor workers after exposure to inhalable aerosols. *American Journal of Industrial Medicine*. Accepted for publication.
8. **Douphrate D**, Fethke N, Nonnenmann M, Rodriguez A\*, Hagevoort R, Gimeno Ruiz de Porras D. (2016). Full-shift and task-specific assessment of muscle activity among large herd dairy parlor workers. *Ergonomics*. 60:1042-1054. DOI: 10.1080/00140139.2016.1262464.
9. **Douphrate D**, Fethke N, Nonnenmann M, Rodriguez A\*, Hagevoort R, Gimeno Ruiz de Porras D. (2016). Effect of a novel teat preparation system on upper extremity muscle activity among U.S. large-herd dairy parlor workers. *International Journal of Industrial Ergonomics*. 56:161-169. DOI: 10.1016/j.ergon.2016.10.003.
10. Campos-Fumero A\*, Delclos GL, **Douphrate DI**, Felknor SA, Vargas-Prada S, Serra C, Coggon D, Gimeno Ruiz de Porras Dv (2016). Low back pain among office workers in three Spanish speaking-countries: findings from the CUPID study. *Injury Prevention*. [Epub ahead of print]. DOI: 10.1136/injuryprev-2016-042091.
11. Autenrieth, DA\*, Brazile, WJ, **Douphrate, DI**, Román-Muñiz, IN, & Reynolds, SJ (2016). Comparing OHSMS programming with injury rates in poultry production. *Journal of Agromedicine*. 21(4): 364-372. DOI: 10.1080/1059924X.2016.1211575.

12. **Douphrate D**, Nonnenmann M, Hagevoort R, Gimeno D. (2016). Work-related musculoskeletal symptoms and job factors among large-herd dairy milkers. *Journal of Agromedicine*. 21(3):1-10. DOI: 10.1080/1059924X.2016.1179612.
13. Campos-Fumero A\*, Delclos GL, **Douphrate DI**, Felkner SA, Vargas-Prada S, Serra C, Coggon D, Gimeno D. (2016). Upper extremity musculoskeletal pain among office workers in three Spanish speaking-countries: findings from the CUPID study. *Journal of Occupational and Environmental Medicine*. 73(6): 394-400. DOI: 10.1136/oemed-2015-103327.
14. Autenrieth D\*, Brazile W, Sandfort D, **Douphrate D**, Román-Muñiz N, & Reynolds S (2016). The associations between occupational health and safety management system programming level and prior injury and illness rates in the U.S. dairy industry. *Safety Science*, 84, 108-116. DOI: 10.1016/j.ssci.2015.12.008.
15. Alamgir H, Tucker DL, Kim SY, Betancourt JA, Turner CA, Gorrell NS, Wong NJ, Sagiraju HKR, Cooper SP, **Douphrate DI**, Whitworth KW, Marko D, Gimeno D, Cornell J, Hammill TL, Senchak AJ, Packer MD. (2016). The Economic Burden of Hearing Loss for the US Military: A Proposed Framework for Estimation. *Military Medicine*. 181(4): 301-306. DOI: 10.7205/MILMED-D-14-00612.
16. Schall M\*, Fethke N, Chen H, Oyama S, **Douphrate D** (2016). Accuracy and repeatability of an inertial measurement unit system for field-based occupational studies. *Ergonomics*. 59(4): 591-602. DOI: 10.1080/00140139.2015.
17. Cooper SP, Alamgir AH, Whitworth KW, Gorrell NS, Betancourt JA, Cornell JE, Delclos G, **Douphrate DI**, Gimeno D, Marko D, Kim SY, Sagiraju HR, Tucker DL, Whitehead LW, Wong NJ, Hammill TL, Senchak AJ, Packer MD. (2014). The Department of Defense epidemiologic and economic burden of hearing loss Study. *Military Medicine*. 179(12): 1458-1464. DOI: 10.7205/MILMED-D-14-00100.
18. **Douphrate D**, Gimeno D, Nonnenmann M, Hagevoort R, Rosas-Goulart C, Rosecrance J. (2014). Prevalence of work-related musculoskeletal symptoms among US large-herd dairy parlor workers. *American Journal of Industrial Medicine*. 57(3):370-379. DOI: 10.1002/ajim.22286.
19. **Douphrate D**, Lunner Kostrup C, Nonnenmann, Jakob M, and Pinzke S (2013). Ergonomics in modern dairy practice: a review of current issues and research needs. *Journal of Agromedicine*. 18(3):198-209. DOI: 10.1080/1059924X.2013.796900.
20. **Douphrate D**, Stallones L, Lunner Kolstrup C, Nonnenmann M, Pinzke S, Hagevoort R, Lundqvist P, Jakob M, Xiang H, Xue L, Jarvie P, McCurdy S, Reed S, Lower T. (2013) Work-related injuries and fatalities on dairy farm operations-a global perspective. *Journal of Agromedicine*. 18(3):256-264. DOI: 10.1080/1059924X.2013.796904.
21. Hagevoort R, **Douphrate D**, Reynolds S. (2013). A review of health and safety leadership and managerial practices on modern dairy farms. *Journal of Agromedicine*. 18(3):265-273. DOI: 10.1080/1059924X.2013.796905.
22. **Douphrate D**, Hagevoort R, Nonnenmann M, Lunner Kolstrup C, Reynolds S, Jakob M, Kinsel M. The global dairy industry: a brief description of production practices, trends,



- and farm characteristics around the world. (2013). *Journal of Agromedicine*. 18(3):187-197. DOI: 10.1080/1059924X.2013.796901.
23. Reed S, **Douphrate D**, Lundqvist P, Jarvie P, Mclean G, Koehncke N, Colosio C, Singh T. (2013). OHS regulations in the dairy industry. *Journal of Agromedicine*. 18(3):210-218. DOI: 10.1080/1059924X.2013.796902.
  24. Lindahl C, Lundqvist P, Hagevoort R., Lunner Kolstrup C, **Douphrate D**, Pinzke S, Grandin T. (2013). Practical implementation of livestock handling in dairy farming related to occupational health and safety. *Journal of Agromedicine*. 18(3):274-283. DOI: 10.1080/1059924X.2013.796906.
  25. Choudhry A\*, Reynolds S, Mehaffy J, **Douphrate D**, Gilmore K, Levin J, Nonnenmann M. (2012) Evaluation parlor cleaning as an intervention for decreased occupational exposure to dust and endotoxin among dairy parlor workers—a pilot study. *Journal of Occupational and Environmental Hygiene*. 9(7): D136-140. DOI: 10.1080/15459624.2012.691410.
  26. Randall E, Hansen C, Gilkey D, Bachand A, Rosecrance J, **Douphrate D**. (2012). Evaluation of ergonomic risk factors among veterinary ultrasonographers. *Veterinary Radiology & Ultrasound*. 53(4):459-464. DOI: 10.1111/j.1740-8261.2012.01942.
  27. Patil A\*, Rosecrance J, **Douphrate D**, Gilkey D. (2012). Prevalence of carpal tunnel syndrome among dairy workers. *American Journal of Industrial Medicine*. 55:127-135. DOI: 10.1002/ajim.21995.
  28. **Douphrate D**, Fethke N, Nonnenmann M, Rosecrance J, Reynolds S. (2012). Full shift arm inclinometry among dairy parlor workers: a feasibility study in a challenging work environment. *Applied Ergonomics*. 43:604-613. DOI: 10.1016/j.apergo.2011.09.007.
  29. **Douphrate D**, Nonnenmann M, Rosecrance J. (2009). Ergonomics in industrialized dairy operations. *Journal of Agromedicine*. 14:406-412. DOI: 10.1080/10599240903260444.
  30. **Douphrate D**, Rosecrance J, Reynolds S, Stallones L, Gilkey D. (2009). Tractor-related injuries: an analysis of workers' compensation data. *Journal of Agromedicine*. 14:190-197. DOI: 10.1080/10599240902773215.
  31. **Douphrate D**, Rosecrance J, Stallones L, Reynolds S, Gilkey, D. (2009). Livestock-handling injuries in agriculture: an analysis of Colorado workers' compensation data. *American Journal of Industrial Medicine*. 52:391-407. DOI: 10.1002/ajim.20686.
  32. **Douphrate D**, Rosecrance J, Wahl G. (2006). Workers' compensation experience of Colorado agriculture workers, 2000-2004. *American Journal of Industrial Medicine*. 49:900-910. DOI: 10.1002/ajim.20387.
  33. Baker J, **Douphrate D**, Ridley D. (1996). The use of the Revised PSB-Health Occupations Aptitude Examination as a predictor of success in physical therapy students. *Journal of Physical Therapy Education*. 10:63-67.

34. **Douphrate D**, Green J., Heffner K, Berman S, East C. (1994). Evaluation of three near-infrared instruments for body composition assessment in a cardiac patient population. *Journal of Cardiopulmonary Rehabilitation*.14:399-405.

#### **PUBLICATIONS UNDER REVIEW** (\*graduate student, #corresponding)

1. Pate W\*, Betancourt J, Delclos G, **Douphrate D**, Gimeno D. Agreement Between Healthcare Patient Safety Culture and Employee Safety Culture. Submitted to *Journal of Patient Safety*. Under review.
2. Rodriguez A\*, Gimeno D, Casanova V, Levin J, **Douphrate D**<sup>#</sup>. Work-related musculoskeletal symptoms among loggers in the Ark-La-Tex region. Submitted to *Journal of Agromedicine*. Under review.
3. Berumen B\*, Rodriguez A\*, Cienega L\*, Casanova V, Pompeii L, **Douphrate D**<sup>#</sup>, Evaluation of safety management and leadership training using mobile technologies among logging supervisors. Submitted to *Journal of Agromedicine*. Under Review.

#### **MANUSCRIPTS IN DEVELOPMENT** (\*graduate student, #corresponding)

1. **Douphrate D**, Fethke N, Gimeno D, Hagevoort R, Nonnenmann M, Rodriguez A\*, Schall M, Chen H. Full-shift direct-measurement of posture and motion among large-herd dairy milkers using inertial measurement units: a comparison of parlor configurations.
2. **Douphrate D**, Fethke N, Gimeno D, Hagevoort R, Nonnenmann M. Full-shift assessment of physiological workload and fatigue among large-herd dairy parlor workers.

#### **NON-PEER REVIEWED TRADE PUBLICATIONS**

1. **Douphrate D** and Hagevoort R. Using mobile devices to offer safety training to dairy workers. *Progressive Dairyman E-Newsletter*. July 29, 2015.
2. **Douphrate D** and Hagevoort R. Safety management on dairy farms: Employee participation and accountability. *Progressive Dairyman E-Newsletter*. February 26, 2015.
3. **Douphrate D** and Reynolds S. Safety management on dairy farms: Owner and manager commitment. *Progressive Dairyman E-Newsletter*. December 18, 2014.
4. **Douphrate D**, Reynolds S, Hagevoort R. Emergency Preparedness on Dairy Farms. *Progressive Dairyman E-Newsletter*. August 20, 2014.
5. Roman-Muniz N, **Douphrate D**. What are Zoonotic Diseases? *Progressive Dairyman E-Newsletter*. May 21, 2014.
6. Roman-Muniz N, **Douphrate D**. Preventing Zoonotic Disease on the Dairy. *Progressive Dairyman E-Newsletter*. May 21, 2014.
7. Pompeii L, **Douphrate D**. Workplace Violence on Dairy Farms. *Progressive Dairyman E-Newsletter*. April 25, 2014.
8. Murphy D, Hill D, **Douphrate D**. Open-air manure Storage Safety. *Progressive Dairyman E-Newsletter*. March 25, 2014.

9. **Douphrate D**, Bolsen K, Reynolds S, Hagevoort R. Silage Safety. Progressive Dairyman E-Newsletter. February 25, 2014.
10. **Douphrate D**, Hagevoort R and Reynolds S. Shiftwork on dairy farms. Progressive Dairyman E-Newsletter. January 25, 2014.
11. Roma-Muniz N and **Douphrate D**. Vaccination safety on dairy farms. Progressive Dairyman E-Newsletter. December 20, 2013.
12. **Douphrate D**. Dairy worker safety in cold environments. Progressive Dairy Dairyman E-Newsletter. November 15, 2013.
13. **Douphrate D**, Hagevoort R. Dairy worker safety training. Progressive Dairy Dairyman E-Newsletter. October 22, 2013.
14. Murphy D, **Douphrate D**. ATV safety. Progressive Dairyman E-Newsletter. September 10, 2013.
15. Nonnenmann M, Hagevoort R, **Douphrate D**. Heat stress: bad for both dairy cows and the people that care for them. Progressive Dairyman E-Newsletter. August 10, 2013.
16. Reynolds S, **Douphrate D**. Respiratory hazards on the dairy farm. Progressive Dairyman E-Newsletter. July 10, 2013.
17. Murphy D, **Douphrate D**. Dairy manure pit safety. Progressive Dairyman E-Newsletter. June 18, 2013.
18. Ayers P, **Douphrate D**. Dairy worker safety and health: Tractor safety on dairy farms. Progressive Dairyman E-Newsletter. May 10, 2013.
19. **Douphrate D**, Bauer M. Dairy worker safety and health: Chemical hazard communication. Progressive Dairyman E-Newsletter. April 8, 2013.
20. **Douphrate D**, Bauer M, Brazile W, Root K. Dairy worker safety and health: Injury and illness recordkeeping. Progressive Dairyman E-Newsletter. March 11, 2013.
21. **Douphrate D**, Bauer M, Brazile W, Root K. Dairy worker safety and health: OSHA inspections, citations and penalties. Progressive Dairyman E-Newsletter. February 11, 2013.
22. **Douphrate D** and Hagevoort R. Dairy worker safety and health: a new column from David Douphrate. Progressive Dairyman E-Newsletter. January 14, 2013.
23. **Douphrate D**. Special Issue: Dairy Farm Safety and OSHA—Approaches for Effective Management and Worker Training. New Mexico State University Dairy Extension Newsletter, September 2011, Volume 2, Number 5.
24. **Douphrate D**. Special Issue: Dairy Farm Safety and OSHA—Approaches for Effective Management and Worker Training. New Mexico State University Dairy Extension Newsletter, September 2011, Volume 2, Number 4.

25. **Douphrate D.** Dairy Farm Safety and OSHA—Approaches for Effective Management and Worker Training. Utah State University Dairy Extension Newsletter, June 2011, Volume 34, Number 3.

### **SCIENTIFIC ABSTRACTS & PRESENTATIONS**

1. **Douphrate D.** Sustainable forestry management: the role of worker health and safety. Invited keynote presentation. Arkansas Timber Producer Association Annual Meeting, Hot Springs, AR, August 24-25, 2018.
2. **Douphrate D.** Hagevoort R, Murphy D, Naerebout R, Rodriguez A. Addressing key safety and health issues on the dairy. Invited panel organizer and moderator. Raising Safety: North American Agricultural Safety Summit, Scottsdale, AZ, February 21-23, 2018.
3. **Douphrate D.** Dairy parlor ergonomics Raising Safety: North American Agricultural Safety Summit, Scottsdale, AZ, February 21-23, 2018.
4. **Douphrate D.** Dairy worker safety: issues, research and solutions. United Dairymen of Idaho Annual Meeting, Boise, ID, November 8-9, 2017.
5. **Douphrate D.** Worker safety and performance: past, current and future research and outreach efforts. Idaho Milk Processors Annual Convention, Sun Valley, ID, August 9-10, 2017.
6. Hagevoort R, **Douphrate D**, Naerebout B, Brose, White J. Challenges surrounding training the next generation in dairy. Panel Discussion. Western Dairy Management Conference, Reno, NV, February 28 - March 2, 2017.
7. **Douphrate D.** Dairy safety management: current situation, challenges, and solutions. Invited Presenter. Washington State Dairy Safety Conference. Ellensburg, WA, November 7-8, 2016.
8. **Douphrate D.** Safety Training Effectiveness Evaluation-The What, When, Why, Where & How. Invited presenter. Occupational Safety and Health Administration (OSHA) Susan Harwood Trainer Exchange. Washington, D.C. October 18-19, 2016.
9. Campos-Fumero A\*, Delclos GL, **Douphrate DI**, Felknor SA, Vargas-Prada S, Serra C, Gimeno D. Low back pain among office workers in Costa Rica, Nicaragua and Spain. 25th EPICOH Conference: Occupational Health, Think Globally, Act Locally. Scientific Committee on Epidemiology in Occupational Health. Barcelona, Catalonia (Spain). September 4-7, 2016.
10. **Douphrate D**, Hagevoort R, Rodriguez A, Pompeii L. Delivery of safety training to US dairy workers using novel mobile technologies. Nordic Meeting of Agricultural Occupational Health and Safety, Billund, Denmark, August 24-26, 2016.
11. Hagevoort R, **Douphrate D**, Garcia Buitrago A, Rodriguez A. Delivery of animal handling training to U.S. workers using novel mobile technologies. Nordic Meeting on Agricultural Occupational Health & Safety, Billund, Denmark, August 24-26, 2016.

12. **Douphrate D.** Full-shift and task-specific ergonomic exposure assessment of posture and muscle activity among dairy parlor workers in US large herd operations. Ninth International Conference on Prevention of Work-Related Musculoskeletal Disorders (PREMUS), Toronto, Canada, June 20-23, 2016.
13. **Douphrate D.** Dairy worker health and safety. Invited Presenter. Washington Department of Safety and Health Technical Symposium, Wenatchee, WA, May 25-26, 2016.
14. **Douphrate D.** Safety training on dairy farms. Invited Presenter. Washington Department of Safety and Health Technical Symposium, Wenatchee, WA, May 25-26, 2016.
15. **Douphrate D.** Dairy worker health and safety: current situation, research challenges and lessons learned. 1st Annual Occupational Health and Safety Research Conference. Keynote presenter. University of Iowa, Iowa City, IA, April 1, 2016.
16. Hagevoort R and **Douphrate D.** Dairy safety management. Western States Dairy Producers Trade Association Annual Meeting. Las Vegas, NV, March 30, 2016.
17. **Douphrate D.** On-farm risk management and safety on dairy farms: Regulatory requirements and planning. High Plains Dairy Conference, Lubbock, TX, March 1-2, 2016.
18. **Douphrate D.** Worker health and safety on US dairies. Invited lecture to the Governor's Agricultural Safety Day. Wenatchee, WA, February 24, 2016.
19. **Douphrate D.** Acute agricultural injuries. Texas Rural Health Association, Agromedicine Workshop, Fort Worth, TX, October 29-30, 2015.
20. **Douphrate D.** Musculoskeletal diseases and ergonomics in agriculture. Texas Rural Health Association, Agromedicine Workshop, Fort Worth, TX, October 29-30, 2015.
21. **Douphrate D.** Safety performance on dairy farms. Invited lecture to the World Dairy Expo. Madison, WI, October 1-2, 2015.
22. **Douphrate D.** Safety performance on dairy farms. Invited lecture to delegations from Pakistan and China, University of Wisconsin at River Falls, WI, September 27-28, 2015.
23. **Douphrate D** and Reynolds S. Worker health and safety on dairy farms: a report of development of an effective research and outreach stakeholder network. Invited lecture to the Western States Occupational Network (WestON), Denver, CO, September 17-18, 2015.
24. **Douphrate D.** Interventions to reduce exposure to physical risk factors for musculoskeletal disorders among dairy parlor workers. American Industrial Hygiene Conference and Exposition (AIHce). Salt Lake City, UT, May 30-June 4, 2015.
25. **Douphrate D.** Safety performance on dairy farms. Invited lecture to the Western Dairy Management Conference, Reno, NV, March 3-5, 2015.

26. **Douphrate D.** Safety training using mobile learning technologies on large herd dairy operations. OSHA Susan Harwood Trainer Exchange Conference, Washington, DC, February 18-19, 2015.
27. **Douphrate D.** Worker health and safety on US dairy farms. 24<sup>th</sup> Annual Midwest Stream Farmworker Health Forum, San Antonio, TX, November 20-22, 2014.
28. **Douphrate D,** Gimeno D, Nonnenmann M, Hagevoort R, Rosecrance J, Reynolds S. Prevalence of work-related musculoskeletal symptoms among US large-herd dairy parlor workers. 7<sup>th</sup> International Symposium: Safety and Health in Agricultural and Rural Populations: Global Perspectives, Saskatoon, SK October 19-22, 2014.
29. **Douphrate D,** Fethke N, Hagevoort R, Nonnenmann M, Gimeno D, Marshall A, Schall M, Chen H, Mixco A, Reynolds S. Task-specific and full shift sampling of upper extremity muscle activity among US large-herd dairy parlor workers. 7<sup>th</sup> International Symposium: Safety and Health in Agricultural and Rural Populations: Global Perspectives, Saskatoon, SK, October 19-22, 2014.
30. **Douphrate D.** Milking parlor ergonomics on US large herd dairies. North American Agricultural Safety Summit, Minneapolis, MN, September 25-27, 2013.
31. **Douphrate D,** Keifer M, Liebman A, Carrabba J, Hagevoort R, Grafft L, Reynolds R. Assisting the dairy industry to optimize worker health and safety: expert panel presentation. International Society of Agricultural Safety and Health Annual Conference, Sandusky, OH, June 23-27, 2013.
32. **Douphrate D** and Levin J. Ergonomic considerations in logging operations. Four-State Forestry on the Grow Conference, Texarkana, TX, April 24-27, 2013.
33. **Douphrate D.** Managing worker safety, productivity, and regulatory issues. Southern Great Plains Dairy Consortium Annual Meeting, Grapevine, TX, March 28, 2013.
34. **Douphrate D.** Upper extremity hazards and solutions in large herd parlor milking. Agricultural Safety and Health: Focus on Dairy, Palmerston North, New Zealand, September 28-30, 2012.
35. **Douphrate D,** Rosecrance J, Reynolds, S. Ergonomic exposures of posture and muscle activity among US large herd dairy parlor workers. Nordic Meeting on Agricultural Occupational Health & Safety 2012, Ystad, Sweden, August 27-29, 2012.
36. **Douphrate D** and Rosecrance C. Ergonomic exposure assessment of posture and muscle activity among dairy parlor workers in US large herd operations. International Conference on Safety, Health and Welfare in Agriculture and Agro-food Systems--Ragusa SHWA 2012, Ragusa Ibla Campus- Italy, September 3-6, 2012.
37. **Douphrate D.** Incorporating worker safety into daily farm management activities. Dairy Summit, Wisconsin Dells, WI, December 7-8, 2011.
38. **Douphrate D,** Rosecrance J, Reynolds S. Musculoskeletal symptoms and physical exposures among US large- herd milking parlor workers. Irish Meeting on Agricultural Occupational Safety and Health, Dublin, Ireland, August 22-24, 2011.

39. **Douphrate D.** Dairy farm safety and OSHA: Approaches for effective management and worker training. Dairy Calf and Heifer Conference, Lake Geneva, WI, April 5-6, 2011.
40. Gilkey D, Randall E, Hansen C, Patil A, Rosecrance J, **Douphrate D.** Musculoskeletal Symptoms and Ergonomic Risk Factors Among Veterinary Sonographers. Human Factors and Ergonomics Society 55th Annual Meeting, Las Vegas, Nevada, September 19-23, 2011.
41. **Douphrate D,** Rosecrance J. Industrialization of Dairy Operations: Ergonomic Implications. International Conference of Work Safety and Risk Prevention in Agro-food and Forest Systems, Ragusa SHWA2010 - Ragusa Ibla Campus- Italy, September 16-18, 2010.
42. **Douphrate D,** Rosecrance J. Livestock Handling Injuries in the United States. International Conference of Work Safety and Risk Prevention in Agro-food and Forest Systems, Ragusa SHWA2010. Ragusa Ibla Campus- Italy, September 16-18, 2010.
43. **Douphrate D.** Rosecrance J, Kolstrup, C, Pinzke S, and Stål M. Musculoskeletal Disorders and Ergonomic Challenges in Modern Dairy Production: European and US Perspectives. Seventh International Conference on Prevention of Work-Related Musculoskeletal Disorders (PREMUS). Angers, France. August 29-September 3, 2010. (presenter and symposium moderator).
44. **Douphrate D,** Kolstrup C, Rosecrance J, Reynolds S, Lundqvist P, Pinzke S, Stål M. European and US dairy production: challenges of work-related musculoskeletal disorder prevention. Seventh International Conference on Prevention of Work-Related Musculoskeletal Disorders (PREMUS). Angers, France, August 29-September 3, 2010.
45. Kolstrup C, **Douphrate D,** Pinzke S, Stål M, Lundqvist P, Rosecrance J, Reynolds S. Musculoskeletal symptoms among US and Swedish dairy workers. Seventh International Conference on Prevention of Work-Related Musculoskeletal Disorders (PREMUS). Angers, France, August 29-September 3, 2010.
46. Rosecrance J, **Douphrate D,** Patil A. Carpal tunnel syndrome among US dairy parlor workers. Seventh International Conference on Prevention of Work-Related Musculoskeletal Disorders (PREMUS). Angers, France, August 29-September 3, 2010.
47. **Douphrate D,** Rosecrance J, Fethke N, and Nonnenmann M. Full-shift upper extremity direct exposure assessment of US dairy parlor workers. Seventh International Conference on Prevention of Work-Related Musculoskeletal Disorders (PREMUS). Angers, France, August 29-September 3, 2010.
48. **Douphrate D.** How can we use workers' compensation data for occupational injury research? Second Annual Western States Occupational Network (WestON) Conference, Denver, CO, September 24-25, 2009.
49. **Douphrate D,** Rosecrance J, Reynolds S, Rosas-Goulart C, Roman-Muniz N, and Nonnenmann M. NIOSH protecting workers in agriculture: an example of immediate r2p in an ergonomic research project in large herd dairies. NIOSH Invitational

Intra/Extramural Agriculture, Forestry and Fishing Safety and Health Workshop, Cincinnati, OH, August 11-12, 2009.

50. **Douphrate D.** and Rosecrance J. (2009) Ergonomics needs assessment of large-herd dairy parlor operations. 21<sup>st</sup> Annual International Occupational Ergonomics and Safety Conference, Dallas, TX, June 11-12, 2009.
51. **Douphrate D.** and Rosecrance J. Livestock-handling injuries in Colorado agriculture. New Paths Conference: Health and Safety in Western Agriculture, Cle Elum, WA, November 11-13, 2008.
52. Rosecrance J. and **Douphrate D.** Ergonomics and dairy operations. New Paths Conference: Health and Safety in Western Agriculture, Cle Elum, WA, November 11-13, 2008.
53. **Douphrate D.**, Rosecrance J and Reynolds S. Tractor-related injuries on farms: an analysis of workers' compensation data. Sixth International Symposium on Public Health and the Agricultural Rural Ecosystem, Saskatoon, SK, Canada, October 19-23, 2008.
54. **Douphrate D.**, Rosecrance J. and Reynolds S. Dairy farm injuries: an analysis of workers' compensation data. Sixth International Symposium on Public Health and the Agricultural Rural Ecosystem, Saskatoon, SK, Canada, October 19-23, 2008.
55. **Douphrate D.**, Rosecrance J and Reynolds S. What can workers' compensation data tell us about livestock-handling injuries in agriculture? Sixth International Symposium on Public Health and the Agricultural Rural Ecosystem, Saskatoon, SK, Canada, October 19-23, 2008.
56. **Douphrate D.** and Rosecrance J. The analysis of agriculture injuries using workers' compensation data. 6<sup>th</sup> Annual Regional National Occupational Research Agenda Young Investigators Symposium, Salt Lake City, UT, April 17-18, 2008.
57. **Douphrate D.**, Rosecrance J, and Wahl G. Workers' compensation experience of Colorado agriculture workers, 2000-2004. National Occupational Research Agenda Symposium, Washington, DC, April 18-20, 2006.
58. Rosecrance J, **Douphrate D.**, and Cross S. Integration of participatory ergonomics and lean manufacturing: a model and case study. International Symposium on Human Factors in Organizational Design and Management-VIII Conference, Maui, HI, June 22-25, 2005.
59. **Douphrate D.** and Rosecrance J. The economics and cost justification of ergonomics. 2<sup>nd</sup> Annual Regional National Occupational Research Agenda Young Investigators Symposium, Salt Lake City, UT, April 15-16, 2004.
60. Rosecrance J, **Douphrate D.** Wellness in the workplace. 14<sup>th</sup> Annual American Physical Therapy Association/Colorado Chapter Fall Symposium, Colorado Springs, CO, November 5-6, 2004.



61. **Douphrate D.** and Rosecrance J. Use of the Colorado workers' compensation database to investigate agriculture injuries. Brouha Work Symposium, Keystone, CO, September 1-3, 2004.

#### **REFEREED CONFERENCE PROCEEDINGS (\*Graduate student)**

1. **Douphrate D.** Upper extremity hazards and solutions in large herd parlor milking. Agricultural Safety and Health: Focus on Dairy. September 28-30, 2012. Palmerston North, New Zealand.
2. **Douphrate D,** Rosecrance J, Reynolds, S. Ergonomic exposures of posture and muscle activity among US large herd dairy parlor workers. Nordic Meeting on Agricultural Occupational Health & Safety 2012. August 27-29, 2012, Ystad, Sweden.
3. **Douphrate D** and Rosecrance C. Ergonomic exposure assessment of posture and muscle activity among dairy parlor workers in US large herd operations. International Conference on Safety, Health and Welfare in Agriculture and Agro-food Systems-- Ragusa SHWA 2012, September 3-6, 2012, Ragusa Ibla Campus- Italy.
4. **Douphrate, D.** Incorporating worker safety into daily farm management activities. 2011 Dairy Summit, December 7-8, 2011, Wisconsin Dells, WI.
5. **Douphrate, D,** Rosecrance J, Reynolds S (2011). Musculoskeletal symptoms and physical exposures among US large- herd milking parlor workers. Irish Meeting on Agricultural Occupational Safety and Health, August 22-24, 2011, Dublin, Ireland.
6. **Douphrate D.** Dairy farm safety and OSHA: Approaches for effective management and worker training. Dairy Calf and Heifer Conference, April 5-6, 2011, Lake Geneva, WI.
7. **Douphrate D,** Rosecrance J. (2010). Industrialization of Dairy Operations: Ergonomic Implications. International Conference of Work Safety and Risk Prevention in Agro-food and Forest Systems, Ragusa SHWA2010 - September 16-18, 2010 Ragusa Ibla Campus- Italy, pp. 10-13.
8. **Douphrate D** and Rosecrance J. (2010) Livestock Handling Injuries in the United States. International Conference of Work Safety and Risk Prevention in Agro-food and Forest Systems, Ragusa SHWA2010 - September 16-18, 2010 Ragusa Ibla Campus- Italy, pp. 14-19.
9. Patil A\*, Gilkey D, Rosecrance J, and **Douphrate D** (2010) Risk Exposure Assessment of Dairy Parlor Workers. Proceedings of the Human Factors and Ergonomics Society, 54th Annual Meeting, pp. 1916-1920.
10. **Douphrate D** and Rosecrance J (2009) Ergonomics needs assessment of large-herd dairy parlor operations. Proceedings of the 21<sup>st</sup> Annual International Occupational Ergonomics and Safety Conference, Dallas, TX, June 11-12, 2009.
11. **Douphrate D,** Rosecrance J, Stallones L, Reynolds S, Gilkey D. (2008) The use of workers' compensation data to investigate livestock handling injuries in agriculture. NORA Symposium 2008: Public Market for Ideas and Partnership. Denver, CO. p 30 of conference proceedings (NIOSH/CDC Publication).

12. **Douphrate D**, Rosecrance J, Stallones L, Reynolds S, Gilkey D. (2008) The use of workers' compensation data to investigate tractor-related injuries in agriculture. NORA Symposium 2008: Public Market for Ideas and Partnership. Denver, CO. p 29 of conference proceedings (NIOSH/CDC Publication).
13. Rosecrance J, **Douphrate D**, and Cross S (2005). Integration of participatory ergonomics and lean manufacturing: a model and case study. Factors in Organizational Design and Management-VIII, Carayon, P., Robertson, M., Kleiner, B., Hoonakker, P. (eds), IEA Press, Santa Monica, California, 437-442.
14. **Douphrate D** and Rosecrance J (2004). The economics and cost justification of ergonomics. Proceedings of the 2<sup>nd</sup> Annual Regional National Occupational Research Agenda Young Investigators Symposium, Blosswick D. (ed.), University of Utah Press, 29-40.

#### **POSTER PRESENTATIONS** (\*Graduate student)

1. Conway S, Pompeii L, Casanova V, **Douphrate, D**. A qualitative assessment of safe work practices in logging in the Southern United States. Epidemiology in Occupational Health (EPICOH) Conference, Barcelona, Spain, September 4-7, 2016.
2. Campos-Fumero A\*, Gimeno D, Douphrate DI, Felknor SA, Vargas-Prada S, Serra C, Delclos GL. Upper extremity musculoskeletal pain among office employees in Costa Rica, Nicaragua and Spain. Ninth International Conference on Prevention of Work-Related Musculoskeletal Disorders (PREMUS). Toronto, Canada, June 20-23, 2016. June 20-23, 2016.
3. Sosa A\*, Oyama S, **Douphrate D**, Ortega C, Land W, Yao W, Campbell, R, Vasquez, C. Scapular kinematics during milking task. 2015 Texas Physical Therapy Annual Conference, Arlington, TX, October 22-24, 2015.
4. Read T, Amick B, **Douphrate D**. Head injury risk assessment in a large oilfield services company. 53<sup>rd</sup> Annual National Student Researcher Forum, Galveston, TX, April 26-27, 2012.
5. **Douphrate D**. Nonnenmann M, Reynolds S, Levin J, Buchan V, Rosecrance J. High Plains and Mountain Region Dairy Health and Safety Workshop: a participatory approach to identify research and outreach needs in the dairy industry. 2010 Agriculture Safety and Health Council of America and NIOSH, Protecting Workers in Agriculture Conference, Dallas, TX, January 27-28, 2010.
6. **Douphrate D**, Rosecrance J, Stallones L, Reynolds S, Gilkey D. The use of workers' compensation data to investigate livestock-handling injuries in agriculture. National Occupational Research Agenda Symposium, Denver, CO, July 29, 2008.
7. **Douphrate D**, Rosecrance J, Stallones L, Reynolds S, Gilkey D. The use of workers' compensation data to investigate tractor-related injuries in agriculture. National Occupational Research Agenda Symposium, Denver, CO, July 29, 2008.

8. **Douphrate D.** and Rosecrance J. Sprain and strain musculoskeletal disorders among Colorado agriculture workers: an analysis of workers compensation claims data. 6<sup>th</sup> International Scientific Conference on Prevention of Work-Related Musculoskeletal Disorders, Boston, MA, August 27-30, 2007.
9. **Douphrate D** and Rosecrance J. Agriculture injuries in Colorado: an analysis of workers' compensation claims. American Public Health Association 135<sup>th</sup> Annual Meeting and Expo, Washington, DC, November 3-7, 2007.
10. **Douphrate D**, Rosecrance J, Wahl G. Workers' compensation experience of Colorado agriculture workers, 2000-2004. National Occupational Research Agenda Symposium, Washington, DC, April 18-20, 2006.
11. **Douphrate D** and Rosecrance J. Integration of participatory ergonomics and lean manufacturing: a model and case study. American Industrial Hygiene Conference and Expo, Anaheim, CA, May 21-26, 2005.
12. **Douphrate D**, Rosecrance J, Wahl G. Musculoskeletal injuries among Colorado agriculture workers. Priester National Extension Health Conference, Lexington, KY, April 12-15, 2005.

#### **TRAININGS AND WORKSHOPS**

1. **Douphrate D.** Dairy safety train the trainer workshop. Idaho Dairymen's Association. Twin Falls, ID, January 16-18, 2018.
2. **Douphrate D.** Dairy farm safety and leadership. U.S. Dairy Consortium Teaching: Advanced Dairy Herd Management. Clovis, NM, June 14-15, 2017.
3. **Douphrate D.** Dairy farm safety OSHA training. Idaho Dairyman's Association, Boise, ID, October 12-13, 2016.
4. **Douphrate D.** Dairy farm safety OSHA training. Idaho Dairyman's Association, Twin Falls, ID, July 25-27, 2016.
5. **Douphrate D.** Dairy farm safety and leadership. U.S. Dairy Consortium Teaching: Advanced Dairy Herd Management. Clovis, NM, June 15-16, 2016.
6. **Douphrate D.** Dairy farm safety OSHA training. Kansas Livestock Association, Garden Park KS, September 24-25, 2015.
7. **Douphrate D.** Dairy farm safety OSHA training. Aurora Dairy, Platteville, CO, August 10-11, 2015.
8. **Douphrate D.** Dairy farm safety and leadership. U.S. Dairy Consortium Teaching: Advanced Dairy Herd Management. Clovis, NM, June 18-19, 2015.
9. **Douphrate D.** Dairy farm safety OSHA training. Brookings, SD, August 14-15, 2014.
10. **Douphrate D.** Dairy farm safety and leadership. Southern Great Plains Dairy Consortium Teaching: Advanced Dairy Herd Management. Clovis, NM, June 23-24, 2014.

11. **Douphrate D.** Dairy farm safety and leadership. Southern Great Plains Dairy Consortium Teaching: Advanced Dairy Herd Management. Clovis, NM, June 17-18, 2013.
12. **Douphrate D.** Ergonomic issues of industrialized dairy operations & livestock-handling injuries. Visiting Scholar Lecture Series, National Farm Medicine Center, Marshfield, WI, February 4, 2009.

#### **MEDIA INTERVIEWS/CITED IN MEDIA**

1. Featured in article written by Pete Delaunay entitled “Dairy Farm Worker Safety Expert Provides Proactive Advice at Dairy Federation Meeting” which was published in Dairyland News. Issue 15, Nov/Dec 2016.
2. Interviewed by Jack Wax for an article entitled Take the Pain out of Farming which was published in *Acres USA*. May 2015.
3. Interviewed by Kelsey Gee, reporter for *Wall Street Journal* for an upcoming article regarding worker health and safety issues on dairy farms. Interviewed on March 30, 2015.
4. Interviewed by Nadine Miller of Land O’Lakes for an upcoming article in Hoard’s Dairyman Magazine regarding worker health and safety issues on dairy farms. Interviewed on January 22, 2015.
5. Interviewed and cited by Steve Werblow for an article entitled Deep in Your Bones: Simple Steps to Prevent Injuries and Years of Pain which was published in *The Furrow*, a worldwide farm magazine published in 12 languages by Deere & Company. Volume 119, Issue 8, December 2014.

#### **WEBINARS**

1. **Douphrate D**, Rodriguez A. Delivery of Safety Training in Dairy Using Mobile Technologies. Agrisafe Webinar Series, May 25, 2017.
2. Reynolds S, **Douphrate D**. High Plains Intermountain Center for Agricultural Health and Safety: A Stakeholder Driven Approach to Health and Safety on Dairies. Agrisafe Webinar Series, May 13, 2013.
3. **Douphrate D**, Fry M. Incorporating Lean Six Sigma into Occupational Health and Safety. Webinar, American Conference of Governmental Industrial Hygienists, March 1, 2011.

#### **TEACHING**

<b>Year</b>	<b>Course #</b>	<b>Name</b>	<b>Cr</b>	<b>Role</b>	<b>Mode</b>	<b>#</b>	<b>Score*</b>
<b><u>University of Texas School of Public Health</u></b>							
2017 Spr	PH2205	Occ. Health & Safety Prog. Mgmt & Ldrshp	3	Coordinator (100%)	In person	23	4.75

2016 Fall	PH2246	Intro to Occ.Ergonomics	3	Coordinator (100%)	In person	6	5.00
2016 Spr	PH2205	Occ. Health & Safety Prog. Mgmt & Ldrshp	3	Coordinator (100%)	In person	17	4.65
2015 Fall	PH2498	Fundamentals of Occ. Safety	3	Coordinator (100%)	In person	10	4.50
2015 Spr	PH2205	Occ. Health & Safety Prog. Mgmt & Ldrshp	3	Coordinator (100%)	In person	21	4.86
2012 Fall	PH2498	Intro to Occ.Ergonomics	3	Coordinator (100%)	In person	10	5.00
2014 Spr	PH2205	Occ. Health & Safety Prog. Mgmt & Ldrshp	3	Coordinator (100%)	In person	25	4.67
2014 Fall	PH2498	Fundamentals of Occ. Safety	3	Coordinator (100%)	In person	10	4.80
2013 Spr	PH3725	Occ. Health & Safety Prog. Mgmt & Ldrshp	3	Coordinator (100%)	In person	22	4.33
2012 Fall	PH2498	Intro to Occ.Ergonomics	3	Coordinator (100%)	In person	10	4.83
2012 Spr	PH3725	Occ. Health & Safety Prog. Mgmt & Ldrshp	3	Coordinator (100%)	In person	25	4.63
2011 Fall	PH2498	Fundamentals of Occ. Safety	3	Coordinator (100%)	In person	11	4.80

\*Student evaluation score for teaching effectiveness range from 1.0 (low) to 5.0 (high)

### **Colorado State University**

<b>Year</b>	<b>Course #</b>	<b>Name</b>	<b>Cr Lectures</b>	
2009 Fall	EH 526	Industrial Hygiene	3	2
2008 Spr	EH 527	Advanced Occupational Hlth	3	2
2007 Fall	EH 526	Industrial Hygiene	2	3
2007 Spr	IU 393	People at Work: The Good, the Bad and the Ugly	1	3
2007 Spr	EH 551	Ergonomics in Product and Process Design	3	4
2007 Spr	EH 230	Environmental Health and Field Methods	2	1
2006 Fall	EH 540	Principles of Ergonomics	3	4
2006 Fall	EH 520	Advanced Environmental Health	3	1

2006 Spr	IU 393	People at Work: The Good, the Bad and the Ugly	1	3
2006 Spr	EH 551	Ergonomics in Product and Process Design	3	4
2006 Spr	EH 230	Environmental Health and Field Methods	2	1
2005 Fall	EH 540*	Principles of Ergonomics	3	8
2005 Fall	EH 520	Advanced Environmental Health	3	1
2005 Spr	IU 393	People at Work: The Good, the Bad and the Ugly	1	3
2005 Spr	EH 551	Ergonomics in Product and Process Design	3	4
2005 Spr	EH 230	Environmental Health and Field Methods	2	1
2004 Fall	EH 540	Principles of Ergonomics	3	4

\*co-taught course due to illness of course instructor

### **INTERNAL AND EXTERNAL PROFESSIONAL SERVICE**

#### **University of Texas School of Public Health**

2014 -	Environmental and Occupational Health Faculty Search Committee
2014 -	Emeritus Faculty Committee
2010 -	San Antonio Regional Campus Student Admissions Committee
2010 -	Environmental and Occupational Health Student Admissions Committee
2014 - 2015	Environmental and Occupational Health Science Prelim Exam Committee
2013 - 2015	Environmental and Occupational Health Curriculum Committee
2011 - 2012	San Antonio Regional Campus Faculty Search Committee Chair
2011 - 2013	Innovation Incubator Committee
2011 - 2012	Innovation Faculty Search Committee
2010 - 2011	Comparative Effectiveness Faculty Search Committee

#### **Colorado State University**

2009 - 2010	College of Veterinary Medicine, Doctor of Veterinary Medicine (Admissions Committee)
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#### **Grant Reviews**

2010 -	Southwest Center for Occupational and Environmental Health, Pilot Project Research Training Program
2008 -	High Plains and Intermountain Center for Agricultural Health and Safety, Pilot Project Program
2015	Manitoba Workers' Compensation Board Research and Workplace Innovation Program (RWIP)

#### **Editorial Board Member**

2016 -	Journal of Agromedicine
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### **Ad-Hoc Reviewer for Peer-Review Publications**

Journal of Agromedicine  
Journal of Ergonomics  
Applied Ergonomics  
Texas Public Health Journal  
American Journal of Industrial Medicine  
Journal of Agricultural Safety and Health  
Science of the Total Environment

### **Conference Organizer**

9<sup>th</sup> International Scientific Conference on the Prevention of Work-Related Musculoskeletal Disorders (PREMUS), International Scientific Committee, June 20-23, 2016.

International Dairy Research Consortium, Fort Collins, CO, July 24-26, 2013.

High Plains and Mountain Dairy Health and Safety Workshop, Denver, CO, October 15-16, 2009.

Agriculture Health and Safety Management using Lean Six Sigma, Logan, UT, September 28-29, 2009.

### **Community Service**

2016 - American Association of Woodturners, Safety Committee Member  
2009 - 2010 State of Colorado, Department of Labor and Employment, Division of Workers' Compensation, Cumulative Trauma Disorder Medical Treatment Guidelines Task Force Member

### **Consultations Related to Professional Expertise**

2016 - American Association of Woodturners, Minneapolis, MN  
2013 - Dresser Rand Incorporated, Houston, TX  
2011 - 2013 Baker Hughes Incorporated, Houston, TX  
2009 New Belgium Brewing Company, Fort Collins, CO  
2007 Insulated Component Structures, Loveland, CO  
2007 Group Publishing, Loveland CO  
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