

CURRICULUM VITAE
John Doyle Beard, BS, MPH, PhD

Assistant Professor
Department of Health Science
College of Life Sciences
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EDUCATION:

- PhD, Epidemiology, University of North Carolina at Chapel Hill (UNC-Chapel Hill), Chapel Hill, NC, May 2015
 - Dissertation: Military Service, Deployments, and Exposures in Relation to Amyotrophic Lateral Sclerosis Etiology and Survival
- MPH, Public Health, Brigham Young University (BYU), Provo, UT, April 2010
 - Master's Paper: Suicide and Pesticide Exposures among Pesticide Applicators and Their Spouses in the Agricultural Health Study
- BS, Statistics, BYU, Provo, UT, April 2008

WORK EXPERIENCE:

Since Becoming a BYU Faculty Member:

- Assistant Professor, Department of Health Science, College of Life Sciences, BYU, Provo, UT, July 2017-Present

Other:

- O-3 (Lieutenant) Senior Assistant Scientist, 11 Regular Active Corps, Commissioned Corps, U.S. Public Health Service (USPHS), Rockville, MD, assigned to
 - Research Officer (O-4 Research Scientist Billet), Epidemiology Team, Industrywide Studies Branch, Division of Surveillance, Hazard Evaluations and Field Studies, National Institute for Occupational Safety and Health (NIOSH), U.S. Centers for Disease Control and Prevention (CDC), Cincinnati, OH, February 2017-July 2017
- Special Volunteer, Chronic Disease Epidemiology Group, Epidemiology Branch, Division of Intramural Research, National Institute of Environmental Health Sciences (NIEHS), U.S. National Institutes of Health (NIH), Research Triangle Park, NC, July 2015-June 2017

- O-3 (Lieutenant) Senior Assistant Scientist, 11 Regular Active Corps and 41 Ready Reserve Active Corps, Commissioned Corps, USPHS, Rockville, MD, assigned to
 - Epidemic Intelligence Service (EIS) Officer (O-5 Senior Research Scientist Billet), EIS Program, Epidemiology Workforce Branch, Division of Scientific Education and Professional Development, Center for Surveillance, Epidemiology, and Laboratory Services (CSELS), CDC, Atlanta, GA, assigned to
 - Epidemiology Team, Industrywide Studies Branch, Division of Surveillance, Hazard Evaluations and Field Studies, NIOSH, CDC, Cincinnati, OH, June 2015-February 2017
 - Commissioned Officer Training Academy, Assignments and Career Management Branch, Division of Commissioned Corps Personnel and Readiness, Office of the Surgeon General, Potomac, MD, March 2016
 - EIS Program, Epidemiology Workforce Branch, Division of Scientific Education and Professional Development, CSELS, CDC, Atlanta, GA, July 2015
- Pre-Doctoral Intramural Research Training Award Fellow, Chronic Disease Epidemiology Group, Epidemiology Branch, Division of Intramural Research, NIEHS, NIH, Research Triangle Park, NC, July 2014-June 2015
- Special Volunteer, Chronic Disease Epidemiology Group, Epidemiology Branch, Division of Intramural Research, NIEHS, NIH, Research Triangle Park, NC, August 2010-June 2014
- Teaching Assistant, EPID 726: Epidemiologic Research Methods, Department of Epidemiology, Gillings School of Global Public Health, UNC-Chapel Hill, Chapel Hill, NC, Spring 2013, Spring 2014
- Teaching Assistant, EPID 725: Research Planning Workshop, Department of Epidemiology, Gillings School of Global Public Health, UNC-Chapel Hill, Chapel Hill, NC, Fall 2012, Fall 2013
- Summer Student, Center for Human Genetics, Division of Medical Genetics, Department of Medicine, School of Medicine, Duke University, Durham, NC, May-August 2011
- Epidemiologist/Tracking Network Coordinator, Surveillance Section, Environmental Epidemiology Program, Bureau of Epidemiology, Division of Disease Control and Prevention, Utah Department of Health (UDOH), Salt Lake City, UT, November 2009-August 2010
- Summers of Discovery Intern, Chronic Disease Epidemiology Group, Epidemiology Branch, Division of Intramural Research, NIEHS, NIH, Research Triangle Park, NC, May-July 2009
- Research Assistant, Department of Health Science, College of Health and Human Performance, BYU, Provo, UT, September 2008-April 2009

- Student Custodian, Custodial Shop, Physical Facilities Division, BYU, Provo, UT, May-August 2008
- Volunteer Research Assistant, Department of Health Science, College of Health and Human Performance, BYU, Provo, UT, May-July 2008
- Teaching Assistant, STAT 466: Introduction to Reliability, Department of Statistics, College of Physical and Mathematical Sciences, BYU, Provo, UT, Winter 2008
- Independent Contractor for Editorial Assistance Services, American Statistical Association, Provo, UT, May 2007-April 2008
- Research Assistant, Department of Statistics, College of Physical and Mathematical Sciences, BYU, Provo, UT, February 2007-April 2008
- Student Advisor, Utah Colleges Exit Poll, Center for the Study of Elections and Democracy, Department of Political Science, College of Family, Home and Social Sciences, and Department of Statistics, College of Physical and Mathematical Sciences, BYU, Provo, UT, October-November 2007
- Student Custodian, Custodial Shop, Physical Facilities Division, BYU, Provo, UT, April 2006-January 2007
- Analysis Co-Team Leader, Utah Colleges Exit Poll, Center for the Study of Elections and Democracy, Department of Political Science, College of Family, Home and Social Sciences, and Department of Statistics, College of Physical and Mathematical Sciences, BYU, Provo, UT, September-December 2006
- Teaching Assistant, STAT 221: Principles of Statistics, Department of Statistics, College of Physical and Mathematical Sciences, BYU, Provo, UT, Fall 2005, Summer 2006
- Student Custodian, Custodial Shop, Physical Facilities Division, BYU, Provo, UT, May 2004-August 2005
- Student Custodian, Custodial Shop, Physical Facilities Division, BYU, Provo, UT, January 2001-April 2002

TEACHING:**Since Becoming a BYU Faculty Member:***Courses:*

- Lead Instructor, HLTH 322: Environmental Health, Department of Health Science, College of Life Sciences, BYU, Provo, UT, Fall 2017
- Lead Instructor, HLTH 491R: Mentored Research, Department of Health Science, College of Life Sciences, BYU, Provo, UT, Fall 2017, Winter 2018

- Lead Instructor, HLTH 606: Environmental Health Sciences, Department of Health Science, College of Life Sciences, BYU, Provo, UT, Winter 2018

Guest Lectures:

- Guest Instructor, HLTH 600: Foundations of Public Health and Health Promotion, Department of Health Science, College of Life Sciences, BYU, Provo, UT, Fall 2017 (October 25, 2017)
 - Topic: U.S. Public Health Service
- Guest Instructor, HLTH 619: Infections and Chronic Disease Prevention and Control, Department of Health Science, College of Life Sciences, BYU, Provo, UT, Fall 2017 (October 3, 2017)
 - Topic: Outbreak reporting: elements of outbreak investigations of an infectious nature and how an MPH graduate can contribute in identifying, reporting, responding, and controlling an outbreak

MPH Student Committees:

- Member, Taylor Hoj, Department of Health Science, 2017-Present
- Member, Rilee Smith, Department of Health Science, 2017-Present

ORCA Student Mentoring Grants

- Faculty Mentor, Erica Bennion, Department of Health Science, 2017
 - Proposal: Building Emergency Preparedness Capacity among Refugees in Salt Lake County (under review)
- Faculty Mentor, Brooke Carroll, Department of Health Science, 2017
 - Proposal: Measuring Water Quality and its Impacts on Health Status in Rural Brazzaville, Republic of the Congo (under review)

Undergraduate Honors Thesis Committee

- Faculty Reader, Mitchell Merrill, Department of Spanish and Portuguese, 2017
 - Thesis: Quality of Hispanic Oral Health in the U.S.: Perceptions of Dentists and a Call for Improvement

Mentored Research:

- Faculty Mentor, Douglas Shumway, Department of Health Science, 2017-Present
 - Project: The Impact of Air Pollution and Seasonal Inversion on Rates of Influenza-like Illness in Utah (in process)
- Faculty Mentor, Carson Telford, Department of Health Science, 2017-Present
 - Project: The Impact of Air Pollution and Seasonal Inversion on Rates of Influenza-like Illness in Utah (in process)

Other:*Courses:*

- Teaching Assistant, EPID 726: Epidemiologic Research Methods, Department of Epidemiology, Gillings School of Global Public Health, UNC-Chapel Hill, Chapel Hill, NC, Spring 2013, Spring 2014
- Teaching Assistant, EPID 725: Research Planning Workshop, Department of Epidemiology, Gillings School of Global Public Health, UNC-Chapel Hill, Chapel Hill, NC, Fall 2012, Fall 2013
- Teaching Assistant, STAT 466: Introduction to Reliability, Department of Statistics, College of Physical and Mathematical Sciences, BYU, Provo, UT, Winter 2008
- Teaching Assistant, STAT 221: Principles of Statistics, Department of Statistics, College of Physical and Mathematical Sciences, BYU, Provo, UT, Fall 2005, Summer 2006

CITIZENSHIP/SERVICE:**Since Becoming a BYU Faculty Member:***College Committees:*

- Member, Office of Research and Creative Activities (ORCA) Student Mentoring Grant/Widtsoe Review Committee, 2017-2018

Department Committees:

- Member, MPH Admissions Committee, 2017-2018
- Member, MPH Curriculum and Learning Committee, 2017-2018
- Member, Student Mentoring Lab (Ad-Hoc) Committee, 2017-2018
- Member, Environmental and Occupational Health Curriculum Committee, 2017-2018
- Member, Epidemiology Curriculum Committee, 2017-2018

Scientific Journal Manuscript Reviewer (number of reviews):

- American Journal of Epidemiology (AJE) (1), 2017
- Journal of Neurology (2), 2017

Other:*Professional Societies:*

- Member, Commissioned Officer Association, National and Cincinnati Branch, 2016-2017
 - Co-chair, Community Service Sub-committee, Cincinnati Branch, 2016-2017
- Member, Society for Epidemiologic Research (SER), 2014, 2016

- Member, International Society of Environmental Epidemiologists, 2012

Scientific Journal Manuscript Reviewer (number of reviews):

- American Journal of Epidemiology (4), 2014–2015
- Environmental Research (3), 2013–2015
- Neurotoxicology and Teratology (1), 2016
- Occupational and Environmental Medicine (7), 2013–2016
- Radiation Research (1), 2016

Other Professional Service:

- NIOSH, CDC, representative, National Neurological Conditions Surveillance System meeting, U.S. Centers for Disease Control and Prevention, Atlanta, GA, May 4, 2017
- Internal peer-reviewer, one scientific journal article manuscript, Epidemiology Team, Industrywide Studies Branch, Division of Surveillance, Hazard Evaluations and Field Studies NIOSH, CDC, 2017
- Internal peer-reviewer, one large National Occupational Research Agenda grant proposal, Surveillance Branch, Division of Surveillance, Hazard Evaluations and Field Studies NIOSH, CDC, 2016
- Peer-reviewer, Exposure and Risk Assessment Category, Alice Hamilton Awards, NIOSH, CDC, 2016
- NIOSH, CDC, peer-reviewer for National Council on Radiation Protection and Measurements. Commentary No. 25 - Potential for Central Nervous System Effects from Radiation Exposure During Space Activities Phase I: Overview. Bethesda, MD: National Council on Radiation Protection and Measurements; 2016, 2015
- Internal peer-reviewer, three scientific journal article manuscripts, Epidemiology Branch, Division of Intramural Research, NIEHS, NIH, 2014-2015
- UDOH Environmental Epidemiology Program representative, Children's Environmental Health and Environmental Justice initiative community meetings, 2010

Civic, Community, and Volunteer Activities:

- Cub Scout Den Leader and Committee Member, Pack 151, Blue Jacket District, Dan Beard Council, Boy Scouts of America, Cincinnati, OH, September 2016–July 2017
- Cub Scout Den Leader and Committee Member, Pack 152, Blue Jacket District, Dan Beard Council, Boy Scouts of America, Cincinnati, OH, September 2016–March 2017

- Cub Scout Den Leader and Committee Member, Pack 631, Crosswinds District, Occoneechee Council, Boy Scouts of America, Morrisville, NC, May 2014–June 2015
- Participant, 12th Annual Health Education Advocacy Summit of the Coalition of National Health Education Organizations, Washington, DC, February 2009
- Volunteer Missionary (English speaking), Canada Vancouver Mission, The Church of Jesus Christ of Latter-day Saints, British Columbia, Canada, May 2002–May 2004

SCHOLARSHIP/RESEARCH:

Peer-Reviewed Publications:

1. **Beard JD**, Erdely A, Dahm MM, de Perio MA, Birch ME, Evans DE, Fernback JE, Eye T, Kodali V, Mercer RR, Bertke SJ, Schubauer-Berigan MK. Carbon nanotube and nanofiber exposure and sputum and blood biomarkers of early effect among U.S. workers. Submitted.
2. Schubauer-Berigan MK, Dahm MM, Erdely A, **Beard JD**, Birch ME, Evans DE, Fernback JE, Mercer RR, Bertke SJ, Eye T, de Perio MA. Association of pulmonary, cardiovascular, and hematologic metrics with carbon nanotube and nanofiber exposure among U.S. workers: a cross-sectional study. Submitted.
3. Dahm MM, Schubauer-Berigan MK, Evans DE, Birch ME, Bertke S, **Beard JD**, Erdely A, Fernback JE, Grinshpun SA. Exposure assessments for a cross-sectional epidemiologic study of US carbon nanotube and nanofiber workers. *Int J Hyg Environ Health*. In press.
4. Armstrong PA, **Beard JD**, Bonilla L, Arboleda N, Lindsley MD, Chae S, Castillo D, Nuñez R, Chiller T, de Perio MA, Pimentel R, Vallabhaneni S. Outbreak of severe histoplasmosis among tunnel workers — Dominican Republic, 2015. [published online ahead of print December 2, 2017]. *Clin Infect Dis*. (doi:10.1093/cid/cix1067).
5. Fang F, Peters TL, **Beard JD**, Umbach DM, Keller J, Mariosa D, Allen KD, Ye W, Sandler DP, Schmidt S, Kamel F. Blood lead, bone turnover, and survival in amyotrophic lateral sclerosis. *Am J Epidemiol*. 2017;186(9):1057-1064.
6. **Beard JD**, Engel LS, Richardson DB, Gammon MD, Baird C, Umbach DM, Allen KD, Stanwyck CL, Keller J, Sandler DP, Schmidt S, Kamel F. Military service, deployments, and exposures in relation to amyotrophic lateral sclerosis survival. *PLoS ONE*. 2017;12(10):e0185751.
7. Rinsky JL, Richardson DB, Wing S, **Beard JD**, Alavanja M, Beane Freeman LE, Chen H, Henneberger PK, Kamel F, Sandler DP, Hoppin JA. Assessing the potential for bias from non-response to a study follow-up interview: an example from the Agricultural Health Study. *Am J Epidemiol*. 2017;186(4):395-404.
8. **Beard JD**, Steege AL, Ju J, Lu J, Luckhaupt SE, Schubauer-Berigan MK. Mortality from amyotrophic lateral sclerosis and Parkinson's disease among different occupation groups — United States, 1985-2011. *MMWR Morb Mortal Wkly Rep*. 2017;66(27):718-722.

9. Mariosa D, **Beard JD**, Umbach DM, Bellocco R, Keller J, Peters TL, Allen KD, Ye W, Sandler DP, Schmidt S, Fang F, Kamel F. Body mass index and amyotrophic lateral sclerosis: a study of US military veterans. *Am J Epidemiol*. 2017;185(5):362-371.
10. Peters TL, **Beard JD**, Umbach DM, Allen K, Keller J, Mariosa D, Sandler DP, Schmidt S, Fang F, Ye W, Kamel F. Blood levels of trace metals and amyotrophic lateral sclerosis. *NeuroToxicology*. 2016;54:119-126.
11. **Beard JD**, Engel LS, Richardson DB, Gammon MD, Baird C, Umbach DM, Allen KD, Stanwyck CL, Keller J, Sandler DP, Schmidt S, Kamel F. Military service, deployments, and exposures in relation to amyotrophic lateral sclerosis etiology. *Environ Int*. 2016;91:104-115.
12. **Beard JD**, Kamel F. Military service, deployments, and exposures in relation to amyotrophic lateral sclerosis etiology and survival. *Epidemiol Rev*. 2015;37(1):55-70.
13. Dong J, **Beard JD**, Umbach DM, Park Y, Huang X, Blair A, Kamel F, Chen H. Dietary fat intake and risk for Parkinson's disease. *Mov Disord*. 2014;29(13):1623-1630.
14. **Beard JD**, Umbach DM, Hoppin JA, Richards M, Alavanja MCR, Blair A, Sandler DP, Kamel F. Pesticide exposure and depression among male private pesticide applicators in the Agricultural Health Study. *Environ Health Perspect*. 2014;122(9):984-991.
15. **Beard JD**, Hoppin JA, Richards M, Alavanja MCR, Blair A, Sandler DP, Kamel F. Pesticide exposure and self-reported incident depression among wives in the Agricultural Health Study. *Environ Res*. 2013;126:31-42.
16. **Beard JD**, Beck C, Graham R, Packham SC, Traphagan M, Giles RT, Morgan JG. Winter temperature inversions and emergency department visits for asthma in Salt Lake County, Utah, 2003-2008. *Environ Health Perspect*. 2012;120(10):1385-1390.
17. **Beard JD**, Umbach DM, Hoppin JA, Richards M, Alavanja MCR, Blair A, Sandler DP, Kamel F. Suicide and pesticide use among pesticide applicators and their spouses in the Agricultural Health Study. *Environ Health Perspect*. 2011;119(11):1610-1615.
18. Merrill RM, **Beard JD**. Influenza vaccination in the United States, 2005-2007. *Med Sci Monitor*. 2009;15(7):PH92-PH100.

Government Publications and Reports:

1. Babik KR, Schubauer-Berigan M, **Beard J**, Dunn KH, Garcia A. Industrial Hygiene Report for Carbon Nanotube and Nanofiber Surveys. Cincinnati, OH: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health; 2017. (File number 383.109). (On file).

2. Babik KR, Schubauer-Berigan M, **Beard J**, Glassford E. Industrial Hygiene Report for Carbon Nanotube and Nanofiber Surveys. Cincinnati, OH: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health; 2017. (File number 383.108). (On file).
3. Babik KR, Schubauer-Berigan M, **Beard J**, Dunn KH. Industrial Hygiene Report for Carbon Nanotube and Nanofiber Surveys. Cincinnati, OH: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health; 2017. (File number 383.107). (On file).
4. Babik KR, Schubauer-Berigan M, Dunn KL, **Beard J**, Dunn KH, Garcia A. Industrial Hygiene Report for Carbon Nanotube and Nanofiber Surveys. Cincinnati, OH: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health; 2017. (File number 383.105). (On file).
5. Babik KR, Schubauer-Berigan M, Dunn KL, **Beard J**, Dunn KH. Industrial Hygiene Report for Carbon Nanotube and Nanofiber Surveys. Cincinnati, OH: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health; 2017. (File number 383.106). (On file).
6. Epi-Aid 2015-39 Team. Outbreak of Histoplasmosis among Tunnel Workers, Sabana Iglesia, Dominican Republic, September 2015. Atlanta, GA: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Emerging and Zoonotic Infectious Diseases; 2015. (Epi-Aid number 2015-39). (On file).
7. Ball RW, Butala SJM, Chaudhuri SN, **Beard JD**, Luedtke PF. The Relationship between Lead and Mercury Levels in Dried Blood Spots from Newborns and Low Birth Weight. Salt Lake City, UT: Utah Department of Health, Division of Disease Control and Prevention, Bureau of Epidemiology, Environmental Epidemiology Program; 2010. (On file).

Published Abstracts:

1. Schubauer-Berigan MK, Dahm MM, Erdely A, **Beard JD**, Birch ME, Evans DE, Fernback JE, Mercer RR, Bertke SJ, de Perio MA. P92. Association of pulmonary and cardiovascular health metrics with carbon nanotube and nanofiber exposure among U.S. workers: a cross-sectional study [abstract]. *Ann Epidemiol.* 2017;27(8):530.
2. **Beard JD**, Erdely A, Dahm MM, de Perio MA, Birch ME, Evans DE, Fernback JE, Mercer RR, Bertke SJ, Schubauer-Berigan MK. P91. Carbon nanotube and nanofiber exposure and blood and sputum biomarkers of effect among U.S. workers. *Ann Epidemiol.* 2017;27(8):529.
3. Armstrong P, **Beard J**, Chae S-R, Bonilla L, Lindsley M, Castillo D, Nuñez R, Chiller T, Arboleda N, Pimental R, Vallabhaneni S. 79 - Severe and highly fatal outbreak of histoplasmosis among tunnel workers — Dominican Republic, 2015 [abstract]. *Am J Trop Med Hyg.* 2017;95(5 Suppl):27.

4. **Beard JD**, Steege AL, Ju J, Lu J, Luckhaupt SE, Schubauer-Berigan MK. 0321-S/P: Broad occupation category and mortality from amyotrophic lateral sclerosis or Parkinson's disease, National Occupational Mortality Surveillance, 1985-2010 [abstract]. The 2016 Epidemiology Congress of the Americas, Miami, FL, June 21-24, 2016. <https://epiresearch.org/wp-content/uploads/2016/06/2016-Abstract-Book-Final1.pdf>. Accessed June 20, 2016.
5. Armstrong PA, **Beard J**, Chae S-R, Bonilla L, Lindsley M, Castillo D, Nuñez R, Chiller T, Arboleda N, Pimental R, Vallabhaneni S. Severe and highly fatal outbreak of histoplasmosis among tunnel workers — Dominican Republic, 2015 [abstract]. The 65th Annual Epidemic Intelligence Service Conference, Atlanta, GA, May 2-5, 2016. <http://www.cdc.gov/eis/downloads/eis-conference-2016.pdf>. Accessed May 9, 2016.
6. **Beard JD**, Steege A, Ju J, Lu J, Luckhaupt S, Schubauer-Berigan M. Mortality from amyotrophic lateral sclerosis or Parkinson's disease by usual occupation — National Occupational Mortality Surveillance, United States, 1985–2010 [abstract]. The 65th Annual Epidemic Intelligence Service Conference, Atlanta, GA, May 2-5, 2016. <http://www.cdc.gov/eis/downloads/eis-conference-2016.pdf>. Accessed May 9, 2016.
7. **Beard JD**, Erdely A, Schubauer-Berigan MK. 38: Update on cross-sectional epidemiological analysis of associations between carbon nanotube and nanofiber exposure and blood biomarkers of effect [abstract]. The Nanotechnology Research Center Bi-Annual Science Exchange Meeting, National Institute for Occupational Safety and Health, Morgantown, WV, April 13-15, 2016.
8. **Beard JD**, Umbach D, Allen K, Keller J, Sandler D, Schmidt S, Engel LS, Kamel F. P4.138: Association of amyotrophic lateral sclerosis (ALS) with solvent and chemical exposure during military deployment [abstract]. The American Academy of Neurology 67th Annual Meeting, Washington, DC, April 18-25, 2015. http://www.abstracts2view.com/aan/view.php?nu=AAN15L1_P4.138. Accessed April 15, 2015.
9. Fang F, Peters TL, **Beard JD**, Umbach D, Keller J, Mariosa D, Allen K, Oddone E, Ye W, Sandler DP, Schmidt S, Kamel F. P142: Blood lead, bone turnover, and survival in amyotrophic lateral sclerosis [abstract]. *Amyotroph Lateral Scler Frontotemporal Degener.* 2014;15(Suppl S1):132-133.
10. Peters TL, **Beard JD**, Umbach DM, Allen K, Keller J, Mariosa D, Sandler DP, Schmidt S, Fang F, Ye W, Kamel F. P155: Blood levels of trace metals and amyotrophic lateral sclerosis (ALS) in US military veterans [abstract]. *Amyotroph Lateral Scler Frontotemporal Degener.* 2014;15(Suppl S1):139.
11. **Beard JD**, Umbach DM, Allen KD, Keller J, Sandler DP, Schmidt S, Kamel F. Poster Presentation 4: Association of amyotrophic lateral sclerosis with solvent and chemical exposure during military deployment [abstract]. The National Institute of Environmental Health Sciences 12th Annual Science Days, Research Triangle Park, NC, November 6-7, 2014.

12. **Beard JD**, Umbach DM, Allen KD, Keller J, Oddone EZ, Sandler DP, Schmidt S, Kamel F. 650-S: Association of amyotrophic lateral sclerosis with pesticide exposure during military service or deployment [abstract]. The 47th Annual Meeting of the Society for Epidemiologic Research, Seattle, WA, June 24-27, 2014. <http://epiresearch.org/wp-content/uploads/2014/08/abstract-book-printed.pdf>. Accessed November 13, 2015.
13. **Beard JD**, Hoppin JA, Richards M, Alavanja MCR, Blair A, Sandler DP, Kamel F. P-065: Organophosphate insecticide use and self-reported incident depression among male private pesticide applicators in the Agricultural Health Study [abstract]. *Epidemiology*. 2012;23(Suppl 5S):S475.
14. Suker AA, Hunter MT, Stewart A, **Beard JD**, Morey E, Reichman P, Arnell E. 205154 Nurse Family Partnership: policy analysis, examination, and recommendations [abstract]. The 137th American Public Health Association Annual Meeting and Exposition, Philadelphia, PA, November 7-11, 2009. <https://apha.confex.com/apha/137am/webprogram/Paper205154.html>. Accessed June 7, 2014.
15. **Beard JD**. Cluster analysis to find “voting twins” [abstract]. The Brigham Young University College of Physical and Mathematical Sciences 21st Annual Spring Research Conference, Provo, UT, March 17, 2007. <http://cpms.byu.edu/springresearch/abstract-entry?id=1027>. Accessed February 17, 2015.

Technical Reports and Other Publications:

1. Fields P, **Beard J**. Using Spreadsheet-based Simulation to Forecast Error: A Comparison of Crystal Ball and @RISK. Provo, UT: Brigham Young University, College of Physical and Mathematical Sciences, Department of Statistics; 2007. (On file).
2. Fields PJ, **Beard JD**. Cluster Analysis to Find "Voting Twins". Provo, UT: Brigham Young University, College of Physical and Mathematical Sciences, Department of Statistics; 2007. (On file).
3. Analysis Team. Early voters leave their print on Utah. In: Lillegren J, ed. 2006 Utah Colleges Exit Poll Report. Provo, UT: Brigham Young University, College of Family, Home and Social Sciences, Department of Political Science, Center for the Study of Elections and Democracy and College of Physical and Mathematical Sciences, Department of Statistics; 2007:14-16.
4. Analysis Team. Rejected. In: Lillegren J, ed. 2006 Utah Colleges Exit Poll Report. Provo, UT: Brigham Young University, College of Family, Home and Social Sciences, Department of Political Science, Center for the Study of Elections and Democracy and College of Physical and Mathematical Sciences, Department of Statistics; 2007:17-18.

Publications in Process:

1. **Beard JD**, Steege AL, Ju J, Lu J, Luckhaupt SE, Schubauer-Berigan MK. Occupational factors and mortality from neurological diseases — National Occupational Mortality Surveillance, 1985-2011.
2. Telford CT, Shumway DG, Sloan CD, Johnston JD, **Beard JD**. The impact of air pollution and seasonal inversion on rates of influenza-like illness in Utah.

Conference Presentations:

1. Schubauer-Berigan MK, Dahm MM, Erdely A, **Beard JD**, Birch ME, Evans DE, Fernback JE, Mercer RR, Bertke SJ, de Perio MA. Association of pulmonary and cardiovascular metrics with carbon nanotube and nanofiber exposure among U.S. workers: a cross-sectional study. Poster presentation at the American College of Epidemiology 2017 Annual Meeting, New Orleans, LA, September 24-26, 2017.
2. **Beard JD**, Erdely A, Dahm MM, de Perio MA, Birch ME, Evans DE, Fernback JE, Eye T, Kodali V, Mercer RR, Bertke SJ, Schubauer-Berigan MK. Carbon nanotube and nanofiber exposure and sputum and blood biomarkers of early effect among U.S. workers. Poster presentation at the American College of Epidemiology 2017 Annual Meeting, New Orleans, LA, September 24-26, 2017.
3. Armstrong P, **Beard J**, Chae S-R, Bonilla L, Lindsley M, Castillo D, Nuñez R, Chiller T, Arboleda N, Pimental R, Vallabhaneni S. Severe and highly fatal outbreak of histoplasmosis among tunnel workers — Dominican Republic, 2015. Oral presentation at the American Society of Tropical Medicine and Hygiene 65th Annual Meeting, Atlanta, GA, November 13-17, 2016.
4. **Beard JD**, Steege AL, Ju J, Lu J, Luckhaupt SE, Schubauer-Berigan MK. Broad occupation category and mortality from amyotrophic lateral sclerosis or Parkinson's disease, National Occupational Mortality Surveillance, 1985-2010. Poster presentation at the 2016 Epidemiology Congress of the Americas, Miami, FL, June 21-24, 2016.
5. Armstrong PA, **Beard J**, Chae S-R, Bonilla L, Lindsley M, Castillo D, Nuñez R, Chiller T, Arboleda N, Pimental R, Vallabhaneni S. Severe and highly fatal outbreak of histoplasmosis among tunnel workers — Dominican Republic, 2015. Oral presentation at the 65th Annual Epidemic Intelligence Service Conference, Atlanta, GA, May 2-5, 2016.
6. **Beard JD**, Steege A, Ju J, Lu J, Luckhaupt S, Schubauer-Berigan M. Mortality from amyotrophic lateral sclerosis or Parkinson's disease by usual occupation — National Occupational Mortality Surveillance, United States, 1985–2010. Oral presentation at the 65th Annual Epidemic Intelligence Service Conference, Atlanta, GA, May 2-5, 2016.
7. **Beard JD**, Umbach DM, Allen KD, Keller J, Sandler DP, Schmidt S, Engel LS, Kamel F. Association of amyotrophic lateral sclerosis (ALS) with solvent and chemical exposure during military deployment. Poster presentation at the American Academy of Neurology 67th Annual Meeting, Washington, DC, April 18-25, 2015.

8. Fang F, Peters TL, **Beard JD**, Umbach D, Keller J, Mariosa D, Allen K, Oddone E, Ye W, Sandler DP, Schmidt S, Kamel F. Blood lead, bone turnover, and survival in amyotrophic lateral sclerosis. Poster presentation at the 25th International Symposium on ALS/MND, Brussels, Belgium, December 5-7, 2014.
9. Peters TL, **Beard JD**, Umbach DM, Allen K, Keller J, Mariosa D, Sandler DP, Schmidt S, Fang F, Ye W, Kamel F. Blood levels of trace metals and amyotrophic lateral sclerosis (ALS) in US military veterans. Poster presentation at the 25th International Symposium on ALS/MND, Brussels, Belgium, December 5-7, 2014.
10. **Beard JD**, Umbach DM, Allen KD, Keller J, Sandler DP, Schmidt S, Kamel F. Association of amyotrophic lateral sclerosis with solvent and chemical exposure during military deployment. Poster presentation at the National Institute of Environmental Health Sciences 12th Annual Science Days, Research Triangle Park, NC, November 6-7, 2014.
11. **Beard JD**, Umbach DM, Allen KD, Keller J, Oddone EZ, Sandler DP, Schmidt S, Kamel F. Association of amyotrophic lateral sclerosis with pesticide exposure during military service or deployment. Poster presentation at the 47th Annual Meeting of the Society for Epidemiologic Research, Seattle, WA, June 24-27, 2014.
12. **Beard JD**, Hoppin JA, Richards M, Alavanja MCR, Blair A, Sandler DP, Kamel F. Organophosphate insecticide use and self-reported incident depression among male private pesticide applicators in the Agricultural Health Study. Poster presentation at the 24th Annual Conference of the International Society of Environmental Epidemiology, Columbia, SC, August 26-30, 2012.
13. Beck C, **Beard JD**, Packham S, Giles R, Traphagan M, Graham R. Asthma and air pollution: associations between asthma emergency department visits, PM_{2.5} levels, and temperature inversions in Salt Lake County, Utah. Poster presentation at the 2011 Council of State and Territorial Epidemiologists Annual Conference, Pittsburgh, PA, June 12-16, 2011.
14. **Beard JD**, Beck C, Packham S, Giles R, Traphagan M, Graham R, Morgan J. Temperature inversions, associated PM_{2.5} levels, and emergency department visits for asthma. Poster presentation at the September 2010 Environmental Public Health Tracking Workshop, Salt Lake City, UT, September 13-16, 2010.
15. Suker AA, Hunter MT, Stewart A, **Beard JD**, Morey E, Reichman P, Arnell E. Nurse Family Partnership: policy analysis, examination, and recommendations. Poster presentation at the 137th American Public Health Association Annual Meeting and Exposition, Philadelphia, PA, November 7-11, 2009.
16. **Beard JD**. Cluster analysis to find “voting twins”. Oral presentation at the Brigham Young University College of Physical and Mathematical Sciences 21st Annual Spring Research Conference, Provo, UT, March 17, 2007.

Invited Presentations:

1. **Beard JD.** Carbon nanotube and nanofiber exposure and blood and sputum biomarkers of early effect among U.S. workers. Oral presentation at the Division of Surveillance, Hazard Evaluations and Field Studies Scientists' Seminar, National Institute for Occupational Safety and Health, Cincinnati, OH, May 22, 2017.
2. **Beard JD.** ALS among veterans: is there a common military exposure? Oral presentation at the Public Health Student Seminar Series, Brigham Young University, Provo, UT, April 13, 2017.
3. Schubauer-Berigan MK, Babik KR, **Beard JD.** Nanomaterials. Oral presentation at the Industrywide Studies Branch Program Review, National Institute for Occupational Safety and Health, Cincinnati, OH, November 7, 2016.
4. **Beard JD.** Covariates and biomarkers. Oral presentation at the Industrywide Carbon Nanotube and Nanofiber Cross-Sectional Epidemiological Study Collaborators Meeting, National Institute for Occupational Safety and Health, Cincinnati, OH, July 19, 2016.
5. **Beard JD,** Erdely A, Schubauer-Berigan MK. Update on cross-sectional epidemiological analysis of associations between carbon nanotube and nanofiber exposure and blood biomarkers of effect. Poster presentation at the Nanotechnology Research Center Bi-Annual Science Exchange Meeting, National Institute for Occupational Safety and Health, Morgantown, WV, April 13-14, 2016.
6. **Beard JD.** Outbreak of histoplasmosis among tunnel cleaning workers, Sabana Iglesia, Dominican Republic, September 2015. Oral presentation at the Division of Surveillance, Hazard Evaluations and Field Studies All-Hands Meeting, National Institute for Occupational Safety and Health, Cincinnati, OH, February 10, 2016.
7. **Beard JD.** National occupational mortality surveillance for neurological diseases. Oral presentation at the Epidemic Intelligence Service 2015 First Year Fall Course, U.S. Centers for Disease Control and Prevention, Atlanta, GA, December 7, 2015.
8. Armstrong P, Bonilla L, **Beard J.** Outbreak of histoplasmosis in Sabana Iglesia, Dominican Republic. Oral presentation at the U.S. Embassy, Santo Domingo, Dominican Republic, October 29, 2015.
9. Armstrong P, Chae S-R, **Beard J,** Vallabhaneni S, Bonilla L, Pimentel R, Castillo D, Nuñez R, Castro B, Cruz R. [Histoplasmosis outbreak in Sabana Iglesia, Dominican Republic]. [Presentation in Spanish]. Oral presentation at the República Dominicana Ministerio de Salud Pública, Santo Domingo, Dominican Republic, September 29, 2015.
10. **Beard JD.** Military service, deployments, and exposures in relation to amyotrophic lateral sclerosis etiology and survival. Oral presentation at the Epidemiology Branch Meeting, National Institute of Environmental Health Sciences, Research Triangle Park, NC, March 9, 2015.

11. **Beard JD.** Amyotrophic lateral sclerosis etiology and military service, deployments, and exposures. Oral presentation at the Occupational and Environmental Epidemiology Branch Meeting, National Cancer Institute, Rockville, MD, November 10, 2014.
12. **Beard JD.** Amyotrophic lateral sclerosis etiology and military service, deployments, and exposures. Oral presentation at the Division of Surveillance, Hazard Evaluations and Field Studies, National Institute for Occupational Safety and Health, Cincinnati, OH, October 28, 2014.
13. **Beard JD.** Amyotrophic lateral sclerosis etiology and military service, deployments, and exposures. Oral presentation at the Neuroepidemiological Journal Club/Interest Group Meeting, National Institute of Environmental Health Sciences, Research Triangle Park, NC, October 2, 2014.
14. **Beard JD.** Amyotrophic lateral sclerosis etiology and military service, deployments, and exposures. Oral presentation at the Neuroepidemiological Workshop, Karolinska Institutet, Stockholm, Sweden, July 16, 2014.
15. **Beard JD.** Military service, deployments, and exposures in relation to amyotrophic lateral sclerosis etiology and survival. Oral presentation at the Environmental/Occupational Epidemiology Seminar, University of North Carolina at Chapel Hill, Chapel Hill, NC, November 22, 2013.
16. **Beard JD.** Military service, deployments, and exposures in relation to amyotrophic lateral sclerosis etiology and survival. Oral presentation at the Epidemiology Branch Meeting, National Institute of Environmental Health Sciences, Research Triangle Park, NC, November 18, 2013.
17. **Beard JD, Umbach DM, Hoppin JA, Richards M, Alavanja MCR, Blair A, Sandler DP, Kamel F.** Suicide and pesticide use in the Agricultural Health Study. Poster presentation at the Division of Intramural Research Board of Scientific Counselors Review of the Epidemiology Branch, National Institute of Environmental Health Sciences, Research Triangle Park, NC, June 3, 2013.
18. **Beard JD.** Pesticide exposure and self-reported depression among male private pesticide applicators in the Agricultural Health Study. Oral presentation at the Environmental Epidemiology Seminar, University of North Carolina at Chapel Hill, Chapel Hill, NC, September 28, 2012.
19. **Beard JD.** Pesticide exposure and self-reported incident depression among wives in the Agricultural Health Study. Oral presentation at the Epidemiology Branch Meeting, National Institute of Environmental Health Sciences, Research Triangle Park, NC, August 6, 2012.
20. **Beard JD.** Occupational lead exposure and amyotrophic lateral sclerosis in U.S. military veterans. Oral presentation at the Environmental Epidemiology Seminar, University of North Carolina at Chapel Hill, Chapel Hill, NC, October 14, 2011.

21. **Beard JD.** Suicide and pesticide use among pesticide applicators and their spouses in the Agricultural Health Study. Oral presentation at the Environmental Epidemiology Seminar, University of North Carolina at Chapel Hill, Chapel Hill, NC, November 19, 2010.
22. Utah Asthma Program, Utah Department of Environmental Quality, National Weather Service, UDOH Environmental Epidemiology Program, UDOH Environmental Public Health Tracking Network, UDOH Office of Health Care Statistics. Asthma and air pollution: associations between asthma emergency department visits, PM_{2.5} levels, and temperature inversions in Utah. Oral presentation at the Utah Department of Health, Salt Lake City, UT, November 16, 2010.
23. **Beard JD.** May 2010 data submission: process and debrief; APEX studies. Oral presentation at the Utah Environmental Public Health Tracking Network's Tracking Network Advisory Committee Meeting (held during the West Virginia Bureau for Public Health's visit to the Utah Department of Health as part of the Association of State and Territorial Health Officers' State-to-State Peer Fellowship Program), Utah Department of Health, Salt Lake City, UT, May 26, 2010.
24. **Beard JD.** Data-partners and warehouse: how to set them up. Oral presentation during the West Virginia Bureau for Public Health's visit to the Utah Department of Health as part of the Association of State and Territorial Health Officers' State-to-State Peer Fellowship Program, Utah Department of Health, Salt Lake City, UT, May 25, 2010.
25. **Beard JD.** Geocoding/Georeferencing 101: UDOH available GIS tools for you! Oral presentation at the 24th e-Health = Utah Public Health Informatics Brown Bag, Utah Department of Health, Salt Lake City, UT, February 24, 2010.
26. UDOH Environmental Epidemiology Program. An assessment of child health in west and central city Salt Lake City. Oral presentation at a Children's Environmental Health and Environmental Justice initiative community meeting, Salt Lake City, UT, February, 2010.
27. **Beard JD.** Suicide and pesticide exposures among pesticide applicators and their spouses in the Agricultural Health Study. Oral presentation at the Epidemiology Branch Meeting, National Institute of Environmental Health Sciences, Research Triangle Park, NC, July 20, 2009.

HONORS AND AWARDS:

Research Support:

- Pre-Doctoral Intramural Research Training Award Fellow (\$34,050 annual stipend, 100% of tuition and fees, supplemental health insurance), Chronic Disease Epidemiology Group, Epidemiology Branch, Division of Intramural Research, NIEHS, NIH, Supervisor: Dr. Freya Kamel, 2014-2015

- Pre-Doctoral Fellow (\$22,032 annual stipend, 100% of tuition and fees, supplemental health insurance), NIOSH T42OH00867302: North Carolina Occupational Safety and Health Education and Research Center, NIOSH, CDC, Principal Investigator: Dr. Bonnie Rogers, 2013-2014
- Pre-Doctoral Fellow (\$21,180-\$22,032 annual stipend, 60% of tuition and fees, supplemental health insurance), NIEHS T32ES07018: Biostatistics for Research in Environmental Health, NIEHS, NIH, Principal Investigator: Dr. Amy Herring, 2010-2013
- Intramural Research Training Award (\$5,673), Chronic Disease Epidemiology Group, Epidemiology Branch, Division of Intramural Research, NIEHS, NIH, Supervisor: Dr. Freya Kamel, 2009
- Fulton Award (\$1,500), Mary Lou Fulton Chair, College of Health and Human Performance, BYU, Faculty Sponsor: Dr. Ray Merrill, 2009

Academic Awards:

- In-state Tuition Award (\$3,614.50), Department of Epidemiology, Gillings School of Global Public Health, UNC-Chapel Hill, 2011
- In-state Tuition Award (\$3,614.50), Department of Epidemiology, Gillings School of Global Public Health, UNC-Chapel Hill, 2010
- MPH Scholarship Award (\$1,054), Department of Health Science, College of Life Sciences, BYU, 2010
- 12th Annual Health Education Advocacy Summit of the Coalition of National Health Education Organizations Fellowship (\$350), Department of Health Science, College of Health and Human Performance, BYU, 2009
- MPH Scholarship Award (\$2,500), Department of Health Science, College of Health and Human Performance, BYU, 2009
- National Science and Mathematics Access to Retain Talent (SMART) Grant (\$2,000), U.S. Department of Education, 2008
- Mangum-Lewis Scholarship (8 semesters, full tuition plus \$200-\$300 for books), Jennie Knight-Mangum and Bert A. Lewis Families, 2001-2002, 2004-2007
- Member, Mu Sigma Rho (National Statistical Honor Society), 2006
- Dean's List, College of Engineering and Technology, BYU, 2001

USPHS Commissioned Corps Awards:*Individual Honor and Unit Awards:*

- PHS Unit Commendation for superior performance responding to an outbreak of severe *Histoplasma capsulatum* infections in an occupational setting in the Dominican Republic between August 2015 and January 2016, 2016

PHS Service and Training Awards:

- PHS Regular Corps Ribbon, 2016
- PHS Commissioned Corps Training Ribbon, 2016
- Challenge Coin (1 of 3 out of 28 officers), Commissioned Officers Training Academy, 2016

Other Awards:

- Finalist, Mitch Singal Award for Excellence in Occupational and Environmental Health, 65th Annual Epidemic Intelligence Service Conference, for abstract and oral presentation “Mortality from amyotrophic lateral sclerosis or Parkinson’s disease by usual occupation — National Occupational Mortality Surveillance, United States, 1985–2010”, 2016
- 2014 AJE Reviewer of the Year, AJE and SER, 2015
 - Editors, The. 2014 articles of the year, reviewers of the year, and figure of the year. *Am J Epidemiol.* 2015;181(4):221-222.
- Intramural Paper of the Month (November), NIEHS, NIH, for Beard JD, Umbach DM, Hoppin JA, Richards M, Alavanja MCR, Blair A, Sandler DP, Kamel F. Pesticide exposure and depression among male private pesticide applicators in the Agricultural Health Study. *Environ Health Perspect.* 2014;122(9):984-991, 2014
 - <http://www.niehs.nih.gov/news/newsletter/2014/11/dir/index.htm>. Accessed November 4, 2014.
- 63rd Annual Epidemic Intelligence Service Conference David J. Sencer Memorial Scholarship (\$800), EIS Alumni Association, 2014
- Eagle Scout, Boy Scouts of America, 1999

ADDITIONAL TRAININGS AND SKILLS:**Emergency Response Trainings:**

- Basic Life Support for Healthcare Professionals (CPR and AED), American Heart Association, July 2015–July 2017
- Introduction to Incident Command System ICS-100 (IS-00100.b), Federal Emergency Management Agency (FEMA), August 2015
- ICS for Single Resources and Initial Action Incident, ICS-200 (IS-00200.b), FEMA, August 2015

- National Incident Management System (NIMS) An Introduction (IS-00700.a), FEMA, August 2015
- National Response Framework, An Introduction (IS-00800.b), FEMA, September 2015

Computer Proficiencies:

- Advanced proficiency in SAS programming language, Microsoft Office (especially Word, Excel, PowerPoint)
- Basic proficiency in Structured Query Language (SQL) programming language, ArcInfo GIS software, R programming language