



## City of Seattle Boards & Commissions Notice of Appointment

<b>Appointee Name:</b> <i>Marissa G. Baker</i>		
<b>Board/Commission Name:</b> <i>Labor Standards Advisory Commission</i>		<b>Position Title:</b> Commissioner, Position 1.
<input type="checkbox"/> Appointment <b>OR</b> <input checked="" type="checkbox"/> Reappointment		<b>City Council Confirmation required?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Appointing Authority:</b> <input type="checkbox"/> City Council <input checked="" type="checkbox"/> Mayor <input type="checkbox"/> Other:		<b>Term of Position: *</b> 5/1/2025 to 4/30/2027  <input type="checkbox"/> <i>Serving remaining term of a vacant position</i>
<b>Residential Neighborhood:</b> <i>West Seattle</i>	<b>Zip Code:</b> <i>98126</i>	<b>Contact Phone No.:</b> [REDACTED]

*\*Term begin and end date is fixed and tied to the position and not the appointment date.*

**Background:**

Work and labor, whether compensated or uncompensated, is a universal part of the human experience. Having access to work that promotes health, safety, and wellbeing is a fundamental human right, and what I have dedicated my career to studying as a professor of occupational health at the University of Washington. Through my research, I have been able to work with a range of workers across Seattle, including but not limited to: welders, shipyard workers, construction workers, public transit operators, app-based drivers, EMTs, city and county workers, and maritime transportation workers. I have worked with employers and employees to understand physical and mental health hazards that workers encounter, as well as propose and evaluate interventions to improve worker wellbeing. The research and outreach I have done in the field of occupational health and safety not only demonstrates my interest in improving working conditions for all Seattle workers, but has also lead to positive programmatic and policy changes resulting in improved physical and mental health outcomes for workers in our city. Trained as an industrial hygienist, I have an understanding of health and safety needs across different industries and technical expertise in how to assess and control chemical, physical, and biological hazards. However, as a researcher my work most recently has focused on how work impacts mental health, stress, and ability to thrive—health impacts experienced by workers regardless of their industry. I also study the experiences and needs of women in the workplace, including in male-dominated industries such as construction and maritime. I have worked successfully with labor unions, employers, employees, and policymakers and will continue to do so in my research and outreach activities. All workers deserve a living wage, access to benefits, fair hours, clear grievance policies, the right to unionize, and a workplace free of harassment, bullying, or other forms of discrimination. These are all areas of interest of mine from a research and outreach perspective, and aspects that I emphasize in both the undergraduate and graduate level courses I teach at University of Washington. Work is a social determinant of health, and improving occupational equity is the motivating factor for why I'm excited by the opportunity to contribute to the LSAC.

I am proud to live in Seattle—a city that places an emphasis on progressive labor policies. I firmly believe that the most impactful changes to occupational health and safety regulations will be realized at the city level. Regulatory policies such as federal OSHA face considerable hurdles to meaningfully reform, making work at the city level as important as ever. Seattle has already expanded labor rights and coverages to groups such as gig workers or domestic workers who are often left out of traditional workplace safety and health regulatory frameworks, showing Seattle to be a leader in the nation for truly impactful labor policies that reach workers that may not otherwise be protected. I want to help contribute to LSAC to continue to meet the needs of a rapidly changing Seattle workforce.

In conclusion, I think I will serve a valuable role on the LSAC given my knowledge of workplace safety and health, my work in evaluation and implementation of workplace interventions, and the research I have done with diverse workers across a range of industries. I will continue to investigate problems using a public health lens, and work to improve the health, safety, and wellbeing for all workers in Seattle.

**Authorizing Signature (original signature):****Date Signed (appointed):**

May 13th, 2025

**Appointing Signatory:**

Bruce A. Harrell

Mayor of Seattle

## MARISSA G. BAKER

### **BIOGRAPHICAL INFORMATION**

University of Washington School of Public Health  
Department of Environmental & Occupational Health Sciences

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

### **EDUCATION**

PhD, Environmental & Occupational Hygiene, University of Washington, Seattle, WA USA	2017
MS, Exposure Sciences, University of Washington, Seattle, WA USA	2011
BA, Biological Sciences, Northwestern University, Evanston, IL USA	2007

### **PROFESSIONAL POSITIONS (All University of Washington unless noted)**

Assistant Professor, Department of Environmental & Occupational Health Sciences	2019—present
Program Director, Industrial Hygiene Training Program	
Affiliate Faculty, Bridges Center for Labor Studies	
Associate Editor, International Archives of Occupational & Environmental Health	2019—present
Acting Assistant Professor, Department of Environmental & Occupational Health Sciences	2018—2019
Acting Instructor, Department of Environmental & Occupational Health Sciences	2017—2018
NIH Ruth L. Kirschstein National Research Service Award (F31), Pre-Doctoral Fellow	2016—2017
Pre-Doctoral Biostatistics, Epidemiologic, and Bioinformatics Training in Environmental Health Fellow	2015—2016
Research Scientist, Department of Environmental & Occupational Health Sciences	2011—2015
Graduate Research Assistant, Department of Environmental & Occupational Health Sciences	2010—2011
Health and Safety Intern, Boeing Company, Renton WA	2010
NIOSH Education and Research Center (ERC) Trainee	2009—2010 (MS student) 2014—2015 (PhD student)

### **HONORS, AWARDS, SCHOLARSHIPS**

Bullard-Sherwood Award for Research to Practice (r2p) Honorable Mention (Intervention)	2022
Univ. of Wash. School of Public Health Communicating Public Health to the Public Award	2021
DEOHS Outstanding PhD Student	2017
International Society of Exposure Science IPA/DGUV Award for Young Exposure Scientists	2016
University of Washington Graduate Student Travel Award	2016
American Industrial Hygiene Foundation Award	2015
University of Washington Top Graduate Scholar Award	2014

### **PROFESSIONAL ACTIVITIES (UNIVERSITY OF WASHINGTON AFFILIATED)**

Chair, DEOHS Curriculum Committee	2022--
Member, SPH Curriculum Committee	2022--
Member, DEOHS Admissions Committee	2022--
Member, DEOHS Budget and Management Committee	2022--
Member, SPH Return to Classroom Task Force	2021--2022

Member, Work, Society, and Health Working Group	2018—
Member, UW MPH re-envisioning committee	2018—2019
Fellow, Consortium for the Advancement of Undergraduate STEM Education	2017—2019
School of Public Health Evidenced Based Teaching Fellow	2017—2019
Cascadia Symposium (Organizer and Chair of Scientific Committee)	2018
Institute for Health Metrics and Evaluation Global Burden of Disease-Population Health Initiative	2017
Future of Occupational Health Symposium (Organizer and Chair of Scientific Committee)	2015

### **PROFESSIONAL ACTIVITIES (OUTSIDE UNIVERSITY OF WASHINGTON)**

OSHA Advisory Committee on Construction Safety and Health	2023—
World Health Organization Technical Advisory Group on Occupational Burden of Disease	2022--
NIOSH Agriculture, Forestry, and Farming Sector Council	2022--
NIOSH Transportation Sector Council	2022—
Reviewer, NIOSH Alice Hamilton Awards	2022
U.S. EPA Science Advisory Committee on Chemicals	2021--
Grant Reviewer, Fogarty Program	2021--
Scientific Committee, EPICOH (Epidemiology in Occupational Health)	2019--
Course Director, AIHA Local Section Conference Short Course	2018, 2021
NIEHS Data Science Innovation Lab, Participant	2019
NIOSH Intramural Reviewer	2019, 2023
Grant Reviewer, Puerto Rico Idea Network of Biomedical Research Excellence	2018
Working Group Member, IARC Monograph 118: Welding and related chemicals	2017

### **PROFESSIONAL MEMBERSHIPS/AFFILIATIONS**

Member, American Conference of Governmental Industrial Hygienists	2023--
Member, ICOH (International Commission on Occupational Health)	2017--
Member, EPICOH (Chair of EPICOH Early Career Network)	2017--
Member, American Industrial Hygiene Association	2011--
Member, Pacific Northwest Chapter of American Industrial Hygiene Association	2011--

### **PEER REVIEW ACTIVITIES**

Annals of Work Exposures and Health; Journal of Exposure Science & Environmental Epidemiology; Environmental Science & Technology; International Archives of Occupational and Environmental Health  
PLoS ONE; Environmental Research; Biomarkers; Toxicology Letters; Environment International; Toxicological Sciences; BMC Biochemistry; BMJ Open; Scientific Reports; American Journal of Preventive Medicine; New England Journal of Medicine; American Journal of Public Health; American Journal of Industrial Medicine; Journal of Occupational and Environmental Medicine

### **BIBLIOGRAPHY**

#### **A. Refereed Research Articles: Published or Accepted**

1. **Baker, Marissa G.**, Christopher D. Simpson, Bert Stover, Lianne Sheppard, Harvey Checkoway, Brad A. Racette, and Noah S. Seixas. 2014. "Blood Manganese as an Exposure Biomarker: State of the Evidence." *Journal of Occupational and Environmental Hygiene* 11(4): 210-217.
2. **Baker, Marissa G.**, Christopher D. Simpson, Lianne Sheppard, Bert Stover, Jackie Morton, John Cocker, and Noah Seixas. 2015. "Variance components of short-term biomarkers of manganese exposure in an inception cohort of welding trainees." *Journal of Trace Elements in Medicine and Biology*, 29:123-129.
3. **Baker, Marissa G.**, Susan R. Criswell, Brad A. Racette, Christopher D. Simpson, Lianne Sheppard,

Harvey Checkoway, and Noah S. Seixas. 2015. "Neurological outcomes associated with low-level manganese exposure in an inception cohort of asymptomatic welding trainees." *Scandinavian Journal of Work, Environment & Health* 41(1): 94-101.

4. Reiss, Boris, Christopher D. Simpson, **Marissa G. Baker**, Bert Stover, Lianne Sheppard, and Noah S. Seixas. 2015. "Hair manganese as an exposure biomarker among welders." *Annals of Occupational Hygiene* 60(2): 139-149.
5. **Baker, Marissa G**, Bert Stover, Christopher D. Simpson, Lianne Sheppard, and Noah S. Seixas. 2016. "Using exposure windows to explore an elusive biomarker: blood manganese." *International Archives of Occupational and Environmental Health*, 89(4): 679-687.
6. Peckham, Trevor, **Marissa G. Baker**, Janice Camp, Joel Kaufman, Noah S. Seixas. 2017. "Creating a Future for Occupational Health." *Annals of Work Exposure and Health* 61(1): 3-15.
7. **Baker, Marissa G**, Christopher D. Simpson, Yvonne Lin, Laura Shireman, and Noah S. Seixas. 2017. "The use of metabolomics to identify biological signatures of manganese exposure." *Annals of Work Exposure and Health*. 61(4):406-415.
8. Guha, Neela; Loomis, Dana; Guyton, Kathryn Z.; Grosse, Yann; El Ghissassi, Fatiha; Bouvard, Véronique; Benbrahim-Tallaa, Lania; Vilahur, Nadia; Muller, Karen; Straif, Kurt; International Agency for Research on Cancer Monograph Working Group; Hansen, J.; Nersesyan, A. K.; Lavoué, J.; Luce, D.; Ahrens, W.; Fukushima, S.; Kromhout, J.; Peters, Susan; 't Mannetje, A.; Albin, M.; **Baker, M. G.**; Fritz, J. M.; Gwinn, W. M.; Lunn, R. M.; Tokar, E. J.; Zeidler-Erdely, P. C. 2017. "Carcinogenicity of welding, molybdenum trioxide, and indium tin oxide." *The Lancet Oncology* 18, no. 5 (2017): 581-582.
9. Doubleday, Annie\*, **Marissa G Baker**, Jérôme Lavoué, Jack Siemiatycki, and Noah S Seixas. 2018. Assessing the burden of occupational exposures in the Pacific Northwest region of the United States. *American Journal of Industrial Medicine*. <https://doi.org/10.1002/ajim.22931>
10. **Baker, Marissa G**, Yvonne S Lin, Christopher D Simpson, Laura M Shireman, Susan Searles Nielsen, Brad A Racette and Noah S Seixas. 2019. The reproducibility of global urinary metabolomics profiles in assessing manganese exposure. *Journal of Trace Elements in Medicine & Biology*. 51: 204-211.
11. Rachel M. Shaffer, Samuel P. Sellers, **Marissa G. Baker**, Rebeca de Buen Kalman, Joey Frostad, Megan K. Suter, Susan C. Anenberg, John Balbus, Niladri Basu, David C. Bellinger, Linda Birnbaum, Michael Brauer, Aaron Cohen, Kristie L. Ebi, Richard Fuller, Philippe Grandjean, Jeremy J. Hess, Pushpam Kumar, Philip J. Landrigan, Bruce Lanphear, Stephanie J. London, Andrew A. Rooney, Jeffrey D. Stanaway, Leonardo Trasande, Katherine Walker, Howard Hu. 2018. Improving and Expanding Estimates of the Global Burden of Disease Due to Environmental Health Risk Factors. *Environmental Health Perspectives*. 127(10)
12. **Marissa G. Baker**, Trevor K. Peckham, Noah S. Seixas. Estimating the burden of United States workers exposed to infection or disease: a key factor in containing risk of COVID-19 infection. *PLoS One*.
13. **Marissa G. Baker**. Characterizing occupations that cannot work from home: a means to identify susceptible worker groups during the COVID-19 pandemic. *American Journal of Public Health* 110 (8), 1126-1132. 2020.
14. **Marissa G. Baker**. Occupational Health Surveillance as a tool for COVID-19 prevention. *American Journal of Public Health* 2021 111 (6), 999-1001.

15. Kayla A. Carter\*, Simpson, Christopher D, Raftery Daniel, and **Marissa G. Baker**. Using targeted metabolomics to distinguish between manganese exposed and unexposed workers in a small occupational cohort. 2021. *Frontiers in Public Health* (9).
16. Kate M. Pedersen, Busch Isaksen Tania M., **Baker Marissa G.**, Seixas, N, and Nicole A. Errett. Climate change impacts and workforce development needs in Federal Region X: A qualitative study of occupational health and safety professionals' perceptions. 2021. *International Journal of Environmental Research and Public Health* 18 (4), 1513.
17. Kerry L. Beckman\*, Lily M. Monsey, Archer, Megan M, Errett, Nicole A, Bostrom A, and **Marissa G. Baker**. Health and safety risk perceptions and needs of app-based drivers during COVID-19. 2021. *American Journal of Industrial Medicine* 64 (11), 941-951.
18. Hannah Curtis, Lily Monsey, Hendrika Meischke, **Marissa G. Baker**, Sarah Laslett, Nancy Simcox and Noah Seixas. Working safely in the trades as women: a qualitative study. *Frontiers in Public Health*. doi: 10.3389/fpubh.2021.781572. 2021.
19. Chan, Allen\*, Pranav Srikanth\*, Nicole A. Errett, and **Marissa G. Baker**. Characterizing observable covid-19 controls in Pacific Northwest Grocery Stores. 2022, *Journal of Occupational & Environmental Hygiene*. 19(5), 237-245,
20. Tolentino, Lorenzo, Brandon Guthrie, **Marissa G. Baker**, Nicola Beck, Nadine Chan, Jeffrey Duchin, Anthony Gomez, Maayan Simckes, Cathy Wasserman, and Martin Cohen and Judith Wasserheit. Face covering usage trends in selected publicly accessible spaces—King County, Washington State, November 27, 2020 to May 11, 2021. 2022. *Public Health Reports*. 137(5), 841-848.
21. Srikanth, Pranav\*, Lily Monsey, Hendrika Meischke, **Marissa G. Baker**. Determinants of stress, depression, quality of life, and intent to leave in Washington State EMTs during COVID-19. 2022. *Journal of Occupational & Environmental Medicine*. 64(8), 642.
22. Harding, Barbara N\*, Debra J Skene, Ana Espinosa, Benita Middleton, Gemma Castaño-Vinyals, Kyriaki Papantoniou, José Maria Navarrete, Patricia Such, Antonio Torrejón, Manolis Kogevinas, and **Marissa G. Baker**. Metabolic profiling of night shift work—The HORMONIT study. 2022. *Chronobiology International*. DOI: 10.1080/07420528.2022.2131562
23. Yassin, Ahmad\*, June Spector, Luke Mease, Alice Shumate, Ryan Hill, Jennifer Lincoln and **Marissa G. Baker**. Exploring determinants of depression, stress, and anxiety in U.S. Mariners during the COVID-19 pandemic." *International Journal of Environmental Research & Public Health* 2022, 19(24), <https://doi.org/10.3390/ijerph192416628>
24. Monsey, Lily M, Kerry L Beckman\*, and **Marissa G. Baker**. How does gender and work location impact worker well-being during COVID-19? Findings from King County, WA. *Journal of Workplace Behavioral Health*.
25. Clonch, Allison\*, Marcy Harrington, June Spector, Lily Monsey, and **Marissa G. Baker**. Exploring environmental determinants of log truck accidents resulting in injury or fatality in the northwest United States using Motor Carrier Management Information System data: 2015-2019. *International Journal of Forest Engineering*.
26. Stephan-Recaido, Shelley\* Trevor K Peckham, Jérôme Lavoué, and Marissa G. Baker. Characterizing the burden and distribution of occupational exposures by sociodemographic groups in the United States: a novel application of job- exposure matrix (JEM) data. *Am J Pub Health*.

## **B. Research Articles: In review or preparation**

1. Srikanth, Pranav\*, Hendrika Meischke, Noah S. Seixas and **Marissa G. Baker**. Role of union women's committees in improving psychosocial outcomes among construction tradeswomen. *In Review (New Solutions)*
2. Mattison, Donald, Momoli, Franco, Alyanak, Cemil, Aschner, Michael, **Baker, Marissa G.**, Cashman, Neil, Dydak, Ulrike, Farhat, Nawal, Guilarte, Tomas, Karyakina, Nataliya, Ramoju, Siva, Natalia, Shilnikova, Taba, Pille, Krewski, Daniel. Diagnosis of manganism and manganese neurotoxicity: workshop report. *In review (Movement Disorders Clinical Practice)*
3. Cagliuso Nicholas V., Nicole A. Errett, Jennifer A. Horney, Megan Boland, Mitchel Rosen, **Marissa G. Baker**, Steven Ramsey, Joy Lee Pearson, Aubrey Miller, and Kevin Yeskey. Exploring gaps and opportunities in disaster researchers' health and safety. *In review. (International Journal of Environmental Research & Public Health)*
4. Monsey, Lily M, Meischke, Hendrika, Miller, Marcy, Seixas, Noah, and Marissa G. Baker. Mentoring SMART Women: Designing and Disseminating a Remote Mentorship Training Program. *In review.*
5. Stephan, Shelley\* Trevor K Peckham, Devan Hawkins, and **Marissa G. Baker**. Characterizing the burden and distribution of occupational psychosocial exposures by sociodemographic groups in the United States using O\*NET data. *In preparation.*
6. Monsey, Lily, Marcy Harrington, Allison Clonch\*, June Spector, and **Marissa G. Baker**. Workscheduling, fatigue, and health and safety needs of Northwest loggers. *In preparation.*

\*Student or post-doc for whom I was primary mentor

## **C. Other Scholarly or Related Publications**

1. Mike Mulcahy, David West, and **Marissa Baker**. Essential, Precarious, and at Risk: Washington Workers in High Hazard, Low-Reward Jobs. A publication of the Washington State Labor Education and Research Center.  
<https://georgetown.southseattle.edu/sites/georgetown.southseattle.edu/files/inline-files/Essential-Precarious-and-At-Risk-Washington-Workers-in-High-Hazard-Low-Reward-Jobs.pdf>
2. Marissa Baker. U.S. Mariner mental health & wellbeing during COVID-19 and beyond.  
<https://deohs.washington.edu/sites/default/files/2021-11/mariner%20final%20report%2011192021.pdf>
3. U.S. Occupational Exposure Burden Estimates Database: <https://shiny.deohs.washington.edu/app/us-exposures-app>
4. Marissa Baker, Noah Seixas, and Trevor Peckham. Human error? Stop blaming workers for their own deaths. Op-Ed, Seattle Times. May 9, 2019.
5. Marissa Baker, Marc Beaudreau, Christopher Zuidema. Assessing fentanyl and methamphetamine in the air and on surfaces of transit vehicles.  
[https://deohs.washington.edu/sites/default/files/2023-09/UW%20exposure%20assessment%20final%20report%20Sept%202023\\_authors.pdf](https://deohs.washington.edu/sites/default/files/2023-09/UW%20exposure%20assessment%20final%20report%20Sept%202023_authors.pdf)

## **D. Books and Book Chapters**

1. IARC Working Group on the Evaluation of Carcinogenic Risks to Humans. 2018. "IARC

Monographs on the Evaluation of Carcinogenic Risks to Humans, Volume 118: Welding, Molybdenum Trioxide, and Indium Tin Oxide.” World Health Organization, IARC Press.

2. Kate Jones, Marissa G. Baker, Tiina Santonen, Noah Seixas. Principles and information sources for occupational biomonitoring. Patty’s Industrial Hygiene & Toxicology: 7th Edition.

## **CONFERENCES & SYMPOSIA PRESENTATIONS**

\*Seixas N and **Baker MG**. Overview on exposure to welding fumes—information from welding databases and scientific studies. Oral presentation. International Symposium on Exposure to Manganese and Neurotoxicity in Welders, Institute for Prevention and Occupational Medicine of the German Social Accident Insurance Institute of the Ruhr-Universität Bochum, May 9, 2012, Bochum Germany.

**Baker MG**, Seixas N, Simpson C, Sheppard L, Stover B, Eisen M. Manganese in blood as an exposure biomarker among newly exposed welders. Oral presentation. X2012 Conference, July 5, 2012, Edinburgh, Scotland.

Reiss B, Seixas N, Simpson C, **Baker MG**, Warner C. Hair as a biomarker for welder’s exposure to manganese. Oral presentation. X2012 Conference, July 5, 2012, Edinburgh, Scotland.

**Baker MG**, Seixas N, Simpson C. Manganese in blood as an exposure biomarker among newly exposed welders. Oral presentation. ISES Conference, November 1, 2012, Seattle, WA.

Reiss B, Seixas N, Simpson C, **Baker MG**, Sheppard L. Hair as a biomarker for welder’s exposure to manganese. Poster presentation. AIHce, May 18-23, 2013, Montreal, Canada.

Seixas N, **Baker MG**, Reiss B, Sheppard L, Stover B, Simpson C. Use of exposure windows for biomarker assessment. Oral presentation. EPICOH Conference, June 18-21, 2013, Utrecht, The Netherlands.

Reiss B, **Baker MG**, Simpson C, Seixas N. Hair as a biomarker for welder’s exposure to manganese. Poster presentation. 9<sup>th</sup> International Symposium on Biological Monitoring in Occupational and Environmental Health, September 11-13, 2013, Manchester, United Kingdom.

**Baker MG**, Seixas N, Simpson C, Morton J, Cocker J. Plasma and urine manganese as short-term biomarkers of exposure. Poster presentation. 9th International Symposium on Biological Monitoring in Occupational and Environmental Health, September 11-13, 2013, Manchester, United Kingdom.

**Baker MG**, Simpson C, Sheppard L, Stover B, Morton J, Cocker J, Seixas NS. Variance components of short-term biomarkers of manganese exposure in an inception cohort of welder trainees. Oral presentation. Airmon Conference, June 18, 2014, Marseille, France.

\***Baker MG**. The utility of biomarkers in environmental and occupational health research. Oral presentation. Pacific Northwest Section of AIHA Spring Symposium. April 9, 2015, Lacey, WA.

\***Baker MG**. The Future of Occupational Health. Oral Presentation. 2015 Puget Sound Association of Safety Engineers Professional Development Conference. June 5, 2015, Ellensburg, WA.

\***Baker MG**. The Future of Occupational Health: How research can inform practice. Oral Presentation. 2016 Spring Conference of the Oregon State Association of Occupational Health Nurses. April 1, 2016, Woodburn, OR.



**Baker MG**, Simpson C, Lin Y, Shireman L, Seixas N. Use of metabolomics in characterizing occupational exposures to manganese in metalworkers. Oral presentation. EPICOH/X2016 Joint Conference, Sept 7, 2016, Barcelona, Spain.

**\*Baker MG**. The Future of Occupational Health: How research can inform practice. Oral Presentation. Oregon Governor's Conference on Occupational Health. March 9, 2017, Portland, OR.

**Baker MG**, Simpson C, Lin Y, Shireman L, Seixas N. Investigating the reproducibility of metabolomics profiles of Washington State metal workers. Oral presentation. EPICOH 2017, August 29, 2017, Edinburgh, Scotland.

**\*Baker MG**. The Future of Occupational Health: New directions, new challenges. Oral Presentation. Northwest Occupational Health Conference. October 26, 2017, Spokane, WA.

**\*Baker MG**. A look inside the International Agency for Research on Cancer (IARC) Monograph process for welding fumes. Oral Presentation. UW DEOHS Department Seminar. December 7, 2017, Seattle, WA.

**\*Baker MG**. The use of metabolomics for exposure assessment in occupational health: linking to the exposome. Oral Presentation. University of British Columbia Department Seminar. April 6, 2018, Vancouver, BC, Canada.

**Baker, MG**. The changing burden of occupational exposures in the Pacific Northwest. Oral Presentation Western States Occupational Network (WestON) Annual Meeting. September 13, 2018, Denver, CO.

**Baker MG**, Simpson C, Lin Y, Shireman L, Seixas N. The use of NMR for targeted metabolomics in manganese exposure studies. Oral Presentation. X2018, September 25, 2018, Manchester, UK.

Doubleday A, **Baker MG**, Lavoue J, Siemiatycki J, Seixas NS. Assessing the burden of occupational exposures in the Pacific Northwest Region of the United States. Poster Presentation. X2018, September 25, 2018, Manchester, UK.

**\*Baker MG**. The use of existing data sources for occupational exposure surveillance: from global to local. Oral presentation. Northwest Occupational Health Conference (AIHA Local Section meeting). October 10, 2018, Bremerton, WA.

**\*Baker MG**. Assessing the burden of occupational exposures in Idaho. Keynote presentation. Idaho AIHA Local Section Meeting. November 29, 2018, Boise, ID.

**\*Baker MG**. "Applying the hierarchy of controls to reduce COVID-19 transmission in healthcare settings." Oral presentation. International COVID-19 & Diabetes Summit. August 26, 2020.

**\*Baker MG**. "COVID Impacts on Women: Essential, precarious, and at risk." Oral Presentation. Washington State Labor Council Convention. September 23, 2020

**\*Baker MG**. Worker risk for COVID-19: More than just your occupation. Oral presentation. Northwest Occupational Health Conference (AIHA Local Section Meeting). October 22, 2020.

**\*Baker MG**. The use of metabolomics for Mn exposure assessment. Oral Presentation. Conference of the International Working Group for Diagnostic Criteria of Manganism. November 12, 2020.

**\*Baker MG**. Women helping women: improving conditions in the construction industry through mentorship.

NIOSH Women's History Month Speaker Series. March 30, 2021.

**\*Baker MG.** "Mariner Mental Health Outcomes and Needs During COVID-19." DEOHS Department Seminar. September 30, 2021.

**\*Baker MG.** "Mariner Mental Health Outcomes and Needs During COVID-19." American Waterways Operators Convention. October 27, 2021.

**\*Baker MG.** "Mariner mental health and wellbeing during COVID-19 and beyond." NIOSH Transportation Research Board. January 10, 2022.

**\*Baker MG.** "Mariner mental health and wellbeing during COVID-19 and beyond: What's DEI got to do with it?" National Academies of Sciences Spring Meeting. April 5, 2022.

**\*Baker MG.** "Mariner mental health and well-being during COVID-19 and beyond." NIEHS Early-Stage Investigator Spotlight Webinar. May 11, 2022.

**Baker MG, LM Monsey, H Meischke, NS Seixas.** "Promoting safety and well-being among sheet metal worker women through mentoring." National Occupational Injury Research Symposium. May 12, 2022.

**\*Baker MG.** "Practical applications to address mental health and wellbeing in the maritime industry." American Waterway Operators Summer Safety Summit. August 18, 2022.

**\*Baker MG.** "Improving the mental health of mariners (and other Washington workers!)" Governor's Industrial Safety and Health Conference. September 29, 2022.

**\*Baker MG.** "Improving the mental health of mariners (and other workers!)" Northwest Occupational Health Conference. October 13, 2022.

**\*Baker MG.** Monsey L. "Mentoring SMART Women: A coordinated approach to support safety, health, and wellbeing of female construction apprentices." Trades Women Build Nations Conference. October 30, 2022. Las Vegas, NV.

**Baker MG.** "Worker exposures to chemicals: data sources, needs, limitations" EPA Workshop on Environmental Justice and Effects from Ubiquitous Chemicals, December 1, 2022.

**\*Baker MG.** "Thinking about mental health in the trucking industry." Washington Trucking Association Safety Meeting, December 14, 2022.

**\*denotes invited presentations**

## **FUNDING HISTORY**

### ***A. Currently Funded Projects (Total costs)***

\$1,000,000	NIOSH/CPWR “Promoting safety and well-being among sheet metal worker women through mentoring”. M. Baker, PI Role: PI (10% FTE) 09/2019 – 08/2024
\$130,000	Sound Transit “Characterizing transit operator exposure to illicit drug use and communicating best practices for operator well-being” M. Baker, PI Role: PI (10% FTE) 11/2022—10/2023
\$9,000,000	NIOSH/CDC Education & Research Center. C. Simpson, PI Role: Co-investigator & Industrial Hygiene Program Director (10% FTE) 07/2020 – 06/2025
\$120,000	NIOSH/CDC Intergovernmental Personnel Agreement. M. Baker, PI. (20% FTE) 09/2020 – 09/2023
\$3,200,000	NIEHS “Imaging biomarkers of neurotoxicity in welders” B. Racette, PI Role: Key Personnel (5% FTE) 07/2021 – 06/2026
\$3,200,000	NIEHS “Novel PET Markers of Mn neurotoxicity in age-related cognitive impairment.” S. Criswell, PI Role: Co-investigator (10% FTE) 09/2019 – 08/2024
\$7,775,000	NIEHS “Interdisciplinary Center for Exposures, Disease, Genomics, and Environment.” J. Kaufman, PI Role: Co-investigator (10% FTE) 09/2021-08/2026
\$4,036,700	NIMH “When are in-person HIV services worth the risk of COVID-19 and other communicable illnesses? Optimizing choices when virtual services are less effective.” A. Bershteyn, PI Role: Co-investigator (5% FTE) 09/2022—08/2027

### ***B. Recently Completed Support (last 3 years)***

\$40,000	NIOSH/PNASH “Investigating determinants of sleep & fatigue in log truck drivers.” M. Baker, PI Role: PI (5% FTE) 09/2021 – 08/2022
\$25,000	Harry Bridges Center for Labor Studies at UW. “EMT Well-being During COVID-19” M. Baker, PI. Role: PI (no FTE) 09/2021-05/2022
\$40,000	UW Population Health Initiative. Experiences of app-based drivers during COVID-19. M. Baker, PI. Role: PI (5% FTE) 06/2020-11/2020
\$40,000	UW Population Health Initiative. A dashboard of workers experiences during COVID-19. M. Baker & B. Zhao co-PIs . Role: Co-PI (5% FTE) 06/2020-11/2020

## **TEACHING HISTORY**

### **A. Teaching Development**

School of Public Health Evidence-based Teaching Fellow 2017—2019  
University of Washington, Seattle, WA

Fellow, Consortium for evidence-based undergraduate STEM education (CAUSE) 2017—2019  
University of Washington, Seattle, WA

### **B. Formal Course Instruction**

#### **Course Design and Instruction—undergraduate students**

SPH 381: Science in Public Health, 140 students, 5 credits

Lead Instructor	Winter, 2018
Lead Instructor	Spring, 2018
Lead Instructor	Winter, 2019
Lead Instructor	Spring 2019

EnvH 472: Environment, Risk, and Society, 75 students, 3 credits

Instructor	Autumn 2019
Instructor	Autumn 2020
Instructor	Autumn 2021
Instructor	Autumn 2022

#### **Course Design and Instruction—graduate students**

EnvH 592: Work & Health in the 21<sup>st</sup> Century, 10 students, 2 credits

Co-instructor	Winter, 2016
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EnvH 572: Environment, Risk, and Society, 5 students, 3 credits

Instructor	Autumn 2019
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EnvH 511: Intro to Environmental & Occupational Health, 25 students, 3 credits

*Course offered as a hybrid online and in-person course*

Co-instructor	Spring 2016
Co-instructor	Winter 2017
Lead instructor	Winter 2018
Lead instructor	Winter 2019

EnvH 502: Environmental & Occupational Exposure Assessment, 35 students, 4 credits

Co-instructor	Winter 2022
Lead Instructor	Winter 2023

### **C. Course Development**

PHI 514: From Evidence to Action and Back: Implementing Public Health Interventions, 4 credits

Worked on a team to develop learning objectives for the course and individual sessions, develop content for each module, integrate environmental & occupational health content, define assessment methods, and map the class to CEPH competencies as part of the University of Washington MPH re-envisioning process

### **D. Reoccurring Guest Teaching**

EnvH 311: Intro to Environmental & Occupational Health, 100 students, 3 credits

Guest Lecturer, "Occupational Health & Safety"

### **ADVISING & FORMAL MENTORING**

Annie Doubleday, Graduate Student Research Assistant (2018)  
Kayla Carter, Graduate Student Research Assistant (2019-2020)  
Kerry Beckman, Graduate Student Research Assistant (2021)

#### **Preceptor (current):**

Pranav Srikanth (PhD Occupational Hygiene)  
Christopher Barnes (MPH Environmental Health)  
Allison Clonch (PhD Occupational Hygiene)  
Kyle Evans (MS Applied Occupational Hygiene)  
Johanna Wood (MS Applied Occupational Hygiene)  
Nathan Winward (MS Applied Occupational Hygiene)

#### **Preceptor (former):**

Vindy Garcha (MPH, Health Services, 2020)  
Allen Chan (MS Occupational Hygiene, 2021)  
Shelley Stephan (MS Occupational Hygiene, 2022)  
Ahmad Yassin (MPH, Occupational & Environmental Medicine, 2022)  
Pranav Srikanth (MS, Occupational Hygiene, 2022)  
Abhyjot Pandher (MS Applied Occupational Hygiene, 2022)  
Renea Ramaman (MS Applied Occupational Hygiene, 2022)  
Diana Marquez (MS, Applied Occupational Hygiene, 2023)  
Karla Vega Colon (MPH, Occupational & Environmental Medicine, 2023)

#### **Committee Member (current)**

Katie Blanchard (PhD, Occupational Health Nursing)  
Sarina Tran (MS, Applied Occupational Hygiene)  
Mariam Assad (MPH, Environmental Health Sciences)

#### **Committee Member (former)**

David Ung, (PhD, Chemistry, 2018)  
Braden Zahora, (PhD, Chemistry, 2019)  
M.C. Nachtigal, (MPH One Health, 2019)  
Ryan Babadi, (PhD, Environmental Toxicology 2020)  
Brianna Willis, (MPH, One Health, 2020)  
Kaitlyn Kelly, (MPH, Environmental Health, 2020)  
Natalie Thiel, (MPH, One Health, 2021)  
James Skuckas, (MS, Applied Occupational Hygiene, 2021)  
Katy Burr (MPH, One Health, 2022)  
Kayla Carter (PhD, Epidemiology, 2022)  
Inna Antonchuk (MPH, Environmental Health, 2022)  
McKay Reed (MS, Occupational Hygiene, 2022)  
Allyson O'Connor (PhD, Health Services, 2022)  
Raymond Ruiz (PhD, Health Services)  
Asheton Gilbertson (MS, Occupational Hygiene)  
Mae Coker (MS, Occupational Hygiene)  
Muna Hassan (MPH, Epidemiology)

#### **Undergraduate Students (former)**

Josephine Yen (research assistant)

Megan Allen (research assistant)  
Divya Puvvadi (Ad-Hoc Honors program)  
Laurn Staford (Ad-Hoc Honors program)  
Kendal Bishop (Ad-Hoc Honors program)  
Bridget Ury (research assistant)  
Greta Gunning (research assistant)

# Labor Standards Advisory Commission

15 Members: Pursuant to *Ord. 124643*, all members subject to City Council confirmation, 2-year terms:

- 7 City Council-appointed
- 7 Mayor-appointed
- 1 Other Appointing Authority-appointed (specify): Commission-appointed

## Roster:

*D	**G	RD	Position No.	Position Title	Name	Member Representation	Term Begin Date	Term End Date	Term #	Appointed By
6	F	1	1.	Commissioner	Marissa G. Baker	Community; Researcher	5/1/25	4/30/27	1	Mayor
6	F	N/A	2.	Commissioner	Alexis Rodich	Worker Organization	5/1/22	4/30/24	2	Mayor
			3.	Commissioner	Patrice Tisdale	Worker Organization	5/1/25	4/30/27	1	Mayor
			4.	Commissioner	Silvia Gonzalez	Community Organization	5/1/24	4/30/26	1	Mayor
3	M	1	5.	Commissioner	Greg P. Ramirez	Worker Organization	5/1/25	4/30/27	2	Mayor
			6.	Commissioner	Corina Yballa	Worker Organization	5/1/24	4/30/26	1	Mayor
			7.	Commissioner	Vacant		5/1/25	4/30/27		Mayor
9	F	2	8.	Commissioner	Danielle Alvarado	Worker Organization	5/1/24	4/30/26	2	City Council
6	F	6	9.	Commissioner	Amanda Powter	Business Owner	5/1/25	4/30/27	1	City Council
			10.	Commissioner	Tom Lambro	Worker Organization	5/1/24	4/30/26	2	City Council
			11.	Commissioner	Samuel Hilbert	Business Owner	5/1/25	4/30/27	1	City Council
6	F	NA	12.	Commissioner	Ilona Lohrey	Business Association or Chamber	5/1/22	4/30/24	2	City Council
6	M	NA	13.	Commissioner	Billy Hetherington	Worker Organization	5/1/23	4/30/25	2	City Council
			14.	Commissioner	Vacant		5/1/24	4/30/26		City Council
			15.	Commissioner	Vacant		5/1/25	4/30/27		Commission

## SELF-IDENTIFIED DIVERSITY CHART

					(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Male	Female	Transgender	NB/ O/ U	Asian	Black/ African American	Hispanic/ Latino	American Indian/ Alaska Native	Other	Caucasian/ Non-Hispanic	Pacific Islander	Middle Eastern	Multiracial
Mayor	1	2					1			2			
Council	1	4			1					3			1
Other													
Total	2	6			1		1			5			1

## Key:

\*D List the corresponding *Diversity Chart* number (1 through 9)

\*\*G List *gender*, M= Male, F= Female, T= Transgender, NB= Non-Binary O= Other U= Unknown

RD Residential Council District number 1 through 7 or N/A

*Diversity information is self-identified and is voluntary.*