

STEPHANIE E. CLELAND, PhD, MSPH

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Vancouver Coastal Health Research Institute
Vancouver, British Columbia

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RESEARCH FOCUS

Topic: Human health impacts of exposure to climate change-influenced environmental hazards

Tools: Environmental epidemiology, spatiotemporal exposure assessment, health impact assessment

PROFESSIONAL EXPERIENCE

Simon Fraser University – Burnaby, British Columbia

Faculty of Health Sciences

Assistant Professor, Legacy for Airway Health Chair in Promotion of Lung Health 2023 – present

Vancouver Coastal Health Research Institute – Vancouver, British Columbia

Legacy for Airway Health

Research Scientist 2023 – present

British Columbia Centre for Disease Control – Vancouver, British Columbia

Environmental Health Services

Affiliate Investigator 2024 – present

University of British Columbia – Vancouver, British Columbia

Faculty of Medicine, Division of Respiratory Medicine

Affiliate Assistant Professor 2024 – present

United States Environmental Protection Agency - Chapel Hill, North Carolina

Center for Public Health and Environmental Assessment

Oak Ridge Institute for Science and Education (ORISE) Research Fellow 2020 – 2023

University of North Carolina-Chapel Hill - Chapel Hill, North Carolina

The Climate Health and Air Quality Lab

Graduate Research Assistant 2018 – 2020

Department of Environmental Sciences and Engineering

Graduate Teaching Assistant 2018 – 2019

CleanAIRE NC – Durham, North Carolina

Advocacy & Education Intern 2020

athenahealth - Watertown, Massachusetts

athenaClinicals Performance & Analytics

Product Analytics Associate 2017 – 2018

athenaClinicals Task Awareness

Product Management Associate 2016 – 2017

EDUCATION

University of North Carolina-Chapel Hill – Chapel Hill, North Carolina

Gillings School of Global Public Health

Doctor of Philosophy, Environmental Sciences & Engineering

May 2023

Advisors: Dr. Ana Rappold and Dr. Jason West

Master of Science in Public Health, Environmental Sciences & Engineering

May 2020

Advisors: Dr. Marc Serre and Dr. Jason West

Graduate Certificate in Global Health

May 2020

Tufts University – Medford, Massachusetts

Bachelor of Science, Computer Science and Community Health, *cum laude*

May 2016

PEER-REVIEWED PUBLICATIONS

Coker, E.S., **Cleland**, S.E., McVea, D., Stafoggia, M., Henderson, S.B. (In press). The synergistic effects of PM_{2.5} and high temperature on community mortality in British Columbia. *npj Clean Air*.

Slavik, C.E., Chapman, D.A., **Cleland**, S.E., Peters, E. (2025). What drives parents' use of air quality indexes during wildfire smoke events: predictors of index knowledge, frequent checking, and following health guidance. *Population and Environment*. doi.org/10.1007/s11111-025-00491-w

Cleland, S.E., Paul, N., Coker, E.S., Henderson, S.B. (2025). The co-occurrence of wildfire smoke and extreme heat events in British Columbia, 2010-2022: Evaluating spatiotemporal trends and inequities in exposure burden. *Environmental Science and Technology Air*. doi.org/10.1021/acsestair.4c00219

Coker, E.S., Ho, W., Paul, N., Lee, M.J., Dickson, J.M., Greif, O., Nilson, B., **Cleland**, S.E., Henderson, S.B. (2024). Enhancing wildfire smoke exposure assessment: A machine learning approach to predict indoor PM_{2.5} in British Columbia, Canada. *Environmental Science and Technology Air*. doi.org/10.1021/acsestair.4c00204.

Keeler, C., **Cleland**, S.E., Hill, K.H., Mazzella, A.J., Cascio, W.E., Rappold, A.G., Rosman, L.A. (2024). Effects of extreme humidity and heat on ventricular arrhythmia risk in patients with cardiac devices. *Journal of the American College of Cardiology*. doi.org/10.1016/j.jacadv.2024.101463

O'Lenick, C.O., **Cleland**, S.E., Neas, L.M., Turner, M.W., McInroe, E.M., Lloyd, K.H., Ghio, A.J., Rebuli, M.E., Jaspers, I., Rappold, A.G. (2024). Impact of heat on respiratory hospitalizations among older adults in 120 large US urban areas. *Annals of the American Thoracic Society*. doi.org/10.1513/AnnalsATS.2024-05-470OC.

Cleland, S.E., Steinhardt, W., Neas, L.M., West, J.J., Rappold, A.G. (2023). Urban heat island impacts on heat-related cardiovascular morbidity: A time series analysis of older adults in US metropolitan areas. *Environment International*, 178. doi.org/10.1016/j.envint.2023.108005.

Interactive dashboard: shiny.epa.gov/Heat_CVD_UHI_Dashboard/

Wyatt, L.H., **Cleland**, S.E., Wei, L., Paul, N., Patil, A., Ward-Caviness, C., Henderson, S.B., Rappold, A.G. (2023). Long-term exposure to ambient O₃ and PM_{2.5} is associated with reduced cognitive performance in young adults: A retrospective longitudinal repeated measures study in adults aged 18–90 years. *Environmental Pollution*, 320. doi.org/10.1016/j.envpol.2023.121085.

Cleland, S.E., Wyatt, L.H., Wei, L., Paul, N., Serre, M.L., West, J.J., Henderson, S.B., Rappold, A.G. (2022). Short-term exposure to wildfire smoke and PM_{2.5} and cognitive performance in a brain-training game: A longitudinal study of US adults. *Environmental Health Perspectives*, 130(6). doi.org/10.1289/EHP10498.

Interactive dashboard: ehs-bccdc.shinyapps.io/PMSmoke_Attention_Dashboard/

☆ Selected for *EHP's* Editor's Choice Collection 2022 [[link](#)]

Cleland, S.E., Serre, M.L., Rappold, A.G., West, J.J. (2021). Estimating the acute health impacts of fire-originated PM_{2.5} exposure during the 2017 California wildfires: Sensitivity to choices of inputs.

GeoHealth, 5(7). doi.org/10.1029/2021GH000414

Delang, M.N., Becker, J.S., Chang, K.L., Serre, M.L., Cooper, O.R., Schultz, M.G., Schröder, S., Lu, X., Zhang, L., Deushi, M., Josse, B., Keller, C.A., Lamarque, J., Lin, M., Liu, J., Marécal, V., Strode, S.A., Sudo, K., Tilmes, S., Zhang, L., **Cleland, S.E.**, Collins, E.L., Brauer, M., West, J.J. (2021). Mapping yearly fine resolution global surface ozone through the Bayesian Maximum Entropy data fusion of observations and model output for 1990-2017. *Environmental Science and Technology*, 55.

doi.org/10.1021/acs.est.0c07742

Cleland, S.E., West, J.J., Jia, Y., Reid, S., Raffuse, S., O'Neill, S., Rappold, A.G., Serre, M.L. (2020). Estimating wildfire smoke concentrations during the October 2017 California fires through BME space/time data fusion of observed, modeled, and satellite-derived PM_{2.5}. *Environmental Science and Technology*, 54 (21).

doi.org/10.1021/acs.est.0c03761

Brugge, D., Simon, M.C., Hudda, N., Zellmer, M., Corlin, L., **Cleland, S.E.**, Liu, E.Y., Rivera, S., Byrne, M., Chung, M., Durant, J.L. (2017). Lessons from in-home air filtration intervention trials to reduce urban ultrafine particle number concentrations. *Building and Environment*, 126.

doi.org/10.1016/j.buildenv.2017.10.007

RESEARCH FUNDING

Genome British Columbia – Sector Innovation Program

Prenatal Exposure to Wildfire Disasters and their Association with Early Childhood Health, Development, Epigenomics, and Inflammation

Role: Co-Investigator

Amount: \$500,000

Principal Investigator: M. Kobor

Co-Investigators: S. Henderson, J. LeMoult, S. Turvey

Genome British Columbia – Sector Innovation Program

COPD-Induced Innate Immune Memory: An Amplifier of Inflammatory Responses to Wildfire Smoke in BC

Role: Co-Investigator

Amount: \$499,533

Principal Investigators: G. Koelwyn, D. Sin

Co-Investigators: R. Allen, X. Zhang

Canadian Institutes of Health Research - Project Grant

Early Life Exposures to Wildfire Smoke and Respiratory Health Outcomes During Childhood

Role: Principal Investigator

Amount: \$294,526

Co-Principal Investigator: S.B. Henderson

Co-Investigators: E.P. Brigham, E. Lavigne, A-M. Nicol, T. To

Canadian Institutes of Health Research - Team Grant in Lung Health

Lungs on Fire: Wildfire Smoke, Incident Diseases, Susceptible Populations, and Community Values in Canada

Role: Co-Principal Investigator

Amount: \$1,999,990

Principal Investigator: C. Carlsten

April 2025 –
March 2028

April 2025 –
March 2028

October 2024 –
September 2027

April 2024 –
March 2029

Co-Principal Investigators: N. Bansback, M. Brauer, E.P. Brigham, P. Camp, S.B. Henderson, N. Mookherjee

CONFERENCE PRESENTATIONS

Chen, C., He, R., Lee, N., **Cleland**, S.E., Turvey, S., Dennis, J., Brigham, E. (2025 May). Genetic Susceptibility to PM_{2.5} Exposure and Respiratory and Neurobehavioural Health in Children: A Systematic Review. American Thoracic Society 2025 International Conference, San Francisco, CA, United States of America.

Adibi, A., Brigham, E.P., **Cleland**, S.E., Johnson, K.M. Camp, P.G., Carlsten, C. (2025 May). Mapping Disparities in Access to Spirometry. [Poster presentation]. American Thoracic Society 2025 International Conference, San Francisco, CA, United States of America.

Cleland, S.E., Hamilton, O.Q.*, Henderson, S.B. (2025 January). Developing Robust Metrics to Characterize Prolonged, Episodic Exposure to Wildfire Smoke for Studies on Chronic Health Outcomes [Oral presentation]. Annual Cascadia Symposium on Environmental, Occupational, and Population Health, Blaine, WA, United States of America.

Chen, C., Hirsch, A., Paul, N., Cooke, J., Winsor, G., Brook, J., Subbarao, P., Turvey, S., **Cleland**, S.E., Dennis, J., Brigham, E. The Wildfire Age: Genetic Susceptibility to Air Pollution Health Effects in Children. [Poster presentation]. Annual Cascadia Symposium on Environmental, Occupational, and Population Health, Blaine, WA, United States of America.

Cleland, S.E., Paul, N., Coker, E., Henderson, S.B. (2024 December). Trends and disparities in community-level exposure to concurrent wildfire smoke and extreme heat events in British Columbia, 2010-2022 [Oral presentation]. American Geophysical Union Annual Meeting 2024, Washington, DC, United States of America.

Paul, N., Nilson, B., **Cleland**, S.E., Coker, E.S., Henderson, S.B. (2024 November). Evaluation of markers for communities impacted by biomass smoke and re-calibrating FireWork using CanOSSEM [Oral presentation]. 2024 Wildland Fire Canada Conference, Fredericton, NB, Canada.

Cleland, S.E., Paul, N., Coker, E., Henderson, S.B. (2024 October). Spatiotemporal trends in co-occurring wildfire smoke and extreme heat events in British Columbia, 2010-2022: Evaluating inequities in exposure burden [Oral presentation]. International Society of Exposure Science 2024 Annual Meeting, Montreal, QC, Canada.

Coker, E.S., Paul, N., **Cleland**, S.E. (2024 October). Advancing wildfire smoke exposure research in North America: A machine learning indoor PM_{2.5} model [Poster presentation]. International Society of Exposure Science 2024 Annual Meeting, Montreal, QC, Canada.

Cleland, S.E., Paul, N., Coker, E., Henderson, S.B. (2024 August). The co-occurrence of wildfire smoke and extreme heat events in British Columbia, 2010-2022: Spatiotemporal patterns in population-level exposure [Oral presentation]. 36th Annual Conference of the International Society for Environmental Epidemiology, Santiago, Chile.

Tsai, W-L., Mcinroe, M., **Cleland**, S.E., O'Lenick, C.R., Turner, M., Spero, T., Rai, M., Schneider, A., Keeler, C., Hill, K.L., Neas, L.M., Rappold, A.G. (2024 August). Characterizing vulnerability for the future heat-related cardiovascular morbidity burden in U.S. metropolitan areas [Oral presentation]. 36th Annual Conference of the International Society for Environmental Epidemiology, Santiago, Chile.

Cleland, S.E., Paul, N., Coker, E., Henderson, S.B. (2024 January). Population-level exposure to co-occurring wildfire smoke and extreme heat events in British Columbia, 2010 – 2022 [Oral presentation].

Annual Cascadia Symposium on Environmental, Occupational, and Population Health, Blaine, WA, United States of America.

Cleland, S.E., Rosman, L., Hill, K.L., Mazzella, A.J., Ward-Caviness, C., Rappold, A.G. (2023 September). The impact of temperature and relative humidity on ventricular arrhythmias in patients with implanted cardiac devices in North Carolina, 2010-2021 [Oral presentation]. 35th Annual Conference of the International Society for Environmental Epidemiology, Kaohsiung, Taiwan.

O'Lenick, C.R., Turner, M., Steinhardt, W., **Cleland, S.E.**, Hill, K.L., Neas, L.M., Rebuli, M.E., Jaspers, I., Rappold, A.G. (2023 September). Geographical variation in the impact of extreme heat events on respiratory hospitalizations among older adults in 120 U.S. metropolitan areas [Oral presentation]. 35th Annual Conference of the International Society for Environmental Epidemiology, Kaohsiung, Taiwan.

Cleland, S.E., Wyatt, L.H., Wei, L., Paul, N., Serre, M.L., West, J.J., Henderson, S.B., Rappold, A.G. (2022 November). Daily and hourly exposure to wildfire smoke and PM_{2.5} and cognitive performance in a brain-training game: A longitudinal study of US adults [Oral presentation]. 2022 Wildland Fire Canada Conference, Edmonton, AB, Canada.

Cleland, S.E., Steinhardt, W., Neas, L., Rappold, A.G. (2022 September). Urban heat islands and heat-related cardiovascular morbidity in older adults: A time series study of US metropolitan areas [Poster presentation]. 34th Annual Conference of the International Society for Environmental Epidemiology, Athens, Greece.

Cleland, S.E., Wyatt, L.H., Wei, L., Paul, N., Patil, A., Henderson, S.B., Rappold, A.G. (2021 December). The cognitive performance effects of short-term PM_{2.5} and wildfire smoke exposure [Oral presentation]. American Geophysical Union Fall Meeting 2021, New Orleans, LA, United States of America.

Cleland, S.E., West, J.J., Jia, Y., Reid, S., Raffuse, S., O'Neill, S., Serre, M.L. (2021 September). Fusing observed, modeled, and satellite-derived concentrations to produce fine-resolution estimates of PM_{2.5} during the 2017 California wildfires [Invited oral presentation]. 2021 Meteorology and Climate - Modeling for Air Quality Conference, Virtual.

Cleland, S.E., Wyatt, L.H., Wei, L., Paul, N., Patil, A., Henderson, S.B., Rappold, A.G. (2021 August). Short-term PM_{2.5} exposure impacts cognitive performance: A longitudinal repeated measures study of the Western US 2017-2018 [Lightning talk presentation]. 33rd Annual Conference of the International Society for Environmental Epidemiology, Virtual.

Cleland, S.E., West, J.J., Jia, Y., Reid, S., Raffuse, S., O'Neill, S., Rappold, A.G., Serre, M.L. (2020 September). A data fusion approach for evaluating smoke exposure: Estimating PM_{2.5} during the 2017 California wildfires [Oral presentation]. International Society of Exposure Science 2020 Annual Meeting, Virtual.

Cleland, S.E., West, J.J., Jia, Y., Reid, S., Raffuse, S., O'Neill, S., Serre, M.L. (2020 August). A space/time data fusion method for estimating smoke concentrations during the October 2017 California fires to inform population-level exposure [Oral presentation]. 32nd Annual Conference of the International Society for Environmental Epidemiology, Virtual.

Cleland, S.E., West, J.J., Serre, M.L. (2020 April). Evaluating the acute health impact of PM_{2.5} exposure during the October 2017 California wildfires [Oral presentation]. 3rd International Smoke Symposium, Virtual.

Cleland, S.E., Serre, M.L., Becker, J., DeLang, M., West, J.J. (2019 October). Fusing CMAQ with observations to estimate the air quality and health impacts of the October 2017 California wildfires

[Poster presentation]. 18th Annual Community Modeling and Analysis System Conference, Chapel Hill, NC, United States of America.

Cleland, S.E., Serre, M.L., Becker, J., DeLang, M., West, J.J. (2019 October). Estimating the hospital admissions attributable to the 2017 California wildfires [Poster presentation]. 2019 Triangle Global Health Annual Conference, Durham, NC, United States of America.

INVITED TALKS & WORKSHOPS

Cleland, S.E. (2025 April). Hot & Smoky: Compound Wildfire Smoke and Extreme Heat Events in British Columbia, 2010-2022. 2025 AGU-AMS Climate & Health Showcase. Virtual.

Cleland, S.E. (2025 April). Pay Attention: The Cognitive Effects of Short-Term Exposure to Wildfire Smoke. BC Lung Air Quality and Health Workshop. Vancouver, BC, Canada.

Cleland, S.E. (2025 March). The Health Risks of Wildfire Smoke in a Changing Climate. Nerd Nite Vancouver. Vancouver, BC, Canada.

Cleland, S.E. (2025 February). Workshop on Mapping the Environment: Wrangling, Plotting, and Analyzing Spatial Environmental Data in R. Love Data Week 2025. Virtual.

Cleland, S.E. (2025 January). Childhood in a Changing Climate: The Health Effects of Early Life Exposure to Heat and Smoke. Annual Cascadia Symposium on Environmental, Occupational, and Population Health, Blaine, WA, United States of America.

Cleland, S.E. (2024 November). Workshop on Mapping Environmental Exposures: Spatial Analysis of Environmental Data in R. SFU GIS Day 2024, Burnaby, BC, Canada.

Cleland, S.E. (2024 October). Breathing Fire: The Health Risks of Wildfire Smoke in a Changing Climate. Vancouver Island University Climate Change Symposium, Nanaimo, BC, Canada.

Cleland, S.E. (2024 October). Seize the Data: Using Data Fusion to Estimate Air Pollution Exposure for Health Studies. SFU Statistics and Actuarial Science Seminar Series, Burnaby, BC, Canada.

Cleland S.E., Wilkinson, S., Murphy, B., Govorchin, A., Clatworthy, Y. (2024 September) SFU Wildfire Research. Wildfire Resilience and Climate Action on Burnaby Mountain, Burnaby, BC, Canada.

Cleland, S.E. (2024 September). Wildfire Smoke and Lung Health: Knowns, Unknowns and Future Directions. BC Lung Foundation Webinar, Virtual.

Cleland, S.E., Wilkinson, S., Murphy, B., Nelson, A. (2024 September). Megafires in BC: Impacts, Strategies, and Future Outlook. Vancouver Climate Day, Vancouver, BC, Canada.

Cleland, S.E. (2024 July). The Air Quality & Health Impacts of Wildfire Smoke. United States Earth Science Organization LEES Program, Virtual.

Cleland, S.E. (2024 June). The health impacts of wildfire smoke and exposure mitigation strategies. BC Municipal Safety Association Regular General Meeting, Virtual.

Cleland, S.E., Whitehead, J., Nelson, A., Freeman, R. (2024 May). The wildfire crisis. SFU Vancouver Lunch 'n' Learn, Vancouver, BC, Canada.

Cleland, S.E., Yao, A., Barn, P., Coker, E., Brigham, E., Pawlovich, J., Newton, C. (2024 May). Protecting patients through wildfire Season: What you need to know. University of British Columbia Continuing Professional Development Webinar, Virtual.

Cleland, S.E. (2024 April). The impacts of wildfire smoke exposure on cognitive health. Oregon Smoke Ready Communities Group Meeting, Virtual.

Cleland, S.E. (2024 January). The cognitive and mental health impacts of wildfire smoke exposure. Annual Cascadia Symposium on Environmental, Occupational, and Population Health, Blaine, WA, United States of America.

Cleland, S.E., Lan, J., Brauer, M., Henderson, S.B. (2023 October). Diverse health impacts of wildfire smoke [Webinar]. Cascadia Wildfire Webinar, Virtual.

Cleland, S.E. (2022 July). Daily and hourly exposure to PM_{2.5} and wildfire smoke and cognitive performance in a brain-training game: A longitudinal study of US adults. National Collaborating Centre for Environmental Health: Environmental Health Seminar Series, Virtual.

Cleland, S.E. & Wyatt, L.H. (2021 September). The impacts of short and long-term exposure to air pollution on cognitive performance. UBC Occupational and Environmental Hygiene Friday Seminars, Virtual.

MENTORSHIP EXPERIENCE

Primary Supervisor:

Olivia Qiong Hamilton (Research Assistant, University of British Columbia)	2024 - present
<i>Co-Supervisor:</i> Sarah B. Henderson	

Committee Member:

Christine Chen (PhD Student, University of British Columbia)	2024 - present
<i>Primary Supervisor:</i> Emily P. Brigham	

Sabreen Samra (BSc Honours Student, Simon Fraser University)	2024 - 2025
<i>Primary Supervisor:</i> Maya Gislason	

TEACHING EXPERIENCE

Instructor:

<i>Senior Seminar in Environmental Health</i>	Spring 2025
HSCI 483, Simon Fraser University (Enrollment: 18)	

<i>Environmental Health Exposure Assessment and Analysis</i>	Spring 2024
HSCI 471/846, Simon Fraser University (Enrollment: 22)	

Teaching Assistant:

<i>Space/Time Exposure Mapping and Risk Assessment</i>	Spring 2019
ENVR 765, University of North Carolina-Chapel Hill	

<i>Temporal GIS and Space/Time Geostatistics for the Environment and Public Health</i>	Fall 2018
ENVR 468, University of North Carolina-Chapel Hill	

KNOWLEDGE TRANSLATION

The Conversation: “Wildfire smoke and extreme heat can occur together: Preparing for the combined health effects of a hot, smoky future.” **Stephanie Cleland**, May 4, 2025. [\[link\]](#)

The Conversation: “As wildfires become more frequent and intense, how will persistent smoke exposure affect long-term health?” **Stephanie Cleland** and Ryan Allen, July 26, 2024. [\[link\]](#)

The Conversation: “These tips can help keep you safe during a potentially severe 2024 wildfire season.” **Stephanie Cleland**, May 23, 2024. [\[link\]](#)

The Conversation: “Wildfire smoke is an increasing threat to Canadians’ health.” Ryan Allen and Stephanie Cleland, August 27, 2023. [\[link\]](#)

MEDIA OUTLET INTERVIEWS

Mind Over Matter Magazine: “Wildfire Smoke: A Greater Impact on Brain Health than Previously Understood.” Jane Langille. Spring 2025. [\[link\]](#)

The New York Times: “How Wildfire Smoke Threatens Health.” Jane C. Hu. August 28, 2024. [\[link\]](#)

The Weather Channel: “Wildfire Smoke: New Research Links to Brain and Mental Health.” August 23, 2024. [\[link\]](#)

CBC Radio: “A B.C. program is helping vulnerable residents breathe easier with homemade air cleaners.” August 16, 2024. [\[link\]](#)

NBC News: “Wildfire smoke is probably harming your brain.” Aria Bendix. July 30, 2024. [\[link\]](#)

Healthline: “Long-Term Exposure to Wildfire Smoke May Raise Your Risk of Dementia.” Shawn Radcliffe. July 30, 2024. [\[link\]](#)

Science News: “Wildfire smoke may cause tens of thousands of premature deaths.” Aimee Cunningham. June 7, 2024. [\[link\]](#)

SFU Engage Magazine: “Addressing the urgent human health impacts of B.C. wildfires.” Summer 2024. [\[link\]](#)

CFNR Network: “Expert advises precautions as wildfire season begins in BC.” Sabrina Spencer. May 17, 2024. [\[link\]](#)

CKPG Today: “Prince George Emergency Operation Centre in need of a permanent facility says city official.” Chris Koo. April 29, 2024. [\[link\]](#)

SFU Faculty of Health Sciences: “New assistant professor brings creative, collaborative quantitative approaches to planetary health research.” Sharon Mah. November 6, 2023. [\[link\]](#)

Daybreak North with Carolina de Ryk. Radio interview about how wildfire smoke affects human health. September 8, 2023. [\[link\]](#)

Freetrail: “Running Through Smoke.” Keegan Sentner, September 7, 2023. [\[link\]](#)

National Geographic: “How wildfire smoke can permanently damage your brain and body.” Tara Haelle, August 14, 2023. [\[link\]](#)

UNC Gillings School of Global Public Health: “New research finds risk from hot weather depends partly on where you live.” July 31, 2023. [\[link\]](#)

EPA Science Matters: “Fighting the Haze: Effects of Wildfire Smoke and Particulate Matter on Brain Function.” May 4, 2023. [\[link\]](#)

Press Democrat: “Concerns about long-term health effects grow since 2017 North Bay wildfires.” Martin Espinoza, October 17, 2022. [\[link\]](#)

UNC Gillings School of Global Public Health: “Could an app help scientists understand wildfire smoke’s impact on cognition?” August 16, 2022. [\[link\]](#)

EHP Science Selection: “Well Played: Using Game App Data to Assess Wildfire Smoke and Cognitive Performance.” Charles Schmidt, July 13, 2022. [\[link\]](#)

AWARDS & HONORS

Gillings School Academic Excellence Award [UNC-Chapel Hill]	2023
Gary G. Koch and Carolyn J. Koch Student Travel Award [UNC-Chapel Hill]	2021
UNC-Chapel Hill's Three Minute Thesis Competition Finalist	2021
National Institute for Occupational Safety and Health (NIOSH) Training Grant	2020
Department of Environmental Sciences & Engineering's Environmental Sciences Achievement Award [UNC-Chapel Hill]	2020
Best Student Poster at the 18 th Annual Community Modeling and Analysis System Conference	2019
Triangle Global Health Annual Conference Student Scholarship	2019
Weiss Urban Livability Fellowship [UNC-Chapel Hill]	2018
B.B. Parker Fellowship [UNC-Chapel Hill]	2018
Alan and Linda Rimer Endowed Scholarship in Environmental Science [UNC-Chapel Hill]	2018
Gillings Merit Scholarship [UNC-Chapel Hill]	2018

PROFESSIONAL & VOLUNTEER SERVICE

Professional:

<i>Member of PH3 Peer Review Committee</i>	Spring 2025
Canadian Institutes of Health Research Project Grant Program	
<i>Member of Network Advisory Committee</i>	2024 - present
BC Respiratory Health Network (RespNetBC)	
<i>Member of Faculty Hiring Search Committee</i>	2024 - present
Simon Fraser University, Faculty of Health Sciences	
<i>Member of the Tenure and Promotion Committee</i>	2024 - 2025
Simon Fraser University, Faculty of Health Sciences	
<i>Member of PH1 Peer Review Committee (Reviewer in Training)</i>	Fall 2024
Canadian Institutes of Health Research Project Grant Program	
<i>Graduate Student Representative at Faculty Meetings</i>	2019 - 2020
UNC-Chapel Hill, Department of Environmental Sciences & Engineering	

Ad Hoc Reviews:

<i>Journals:</i> GeoHealth, Nature Climate Change, Scientific Reports, Environmental Research, Lancet Planetary Health, International Journal of Environmental Research & Public Health, PLOS Climate, Environmental Research Letters	2023 - present
<i>Grants:</i> SSHRC Insight Grants	2024 - present
<i>Other:</i> MPH Program Applications (SFU), Trainee Salary Stipend Awards (RespNetBC), Outstanding Student Presentation Awards (AGU24)	2024 - present

Volunteer:

<i>The BREATHE Project</i> , Co-lead DIY air cleaner workshops for communities in BC	2024 - present
<i>Skype a Scientist</i> , Science communication outreach to K-12 classrooms	2023 - present
<i>CleanAIRE NC</i> , Member of planning committee for NC BREATHE Conference	2020 – 2023

Science Club for Girls, Mentor for after-school science club for elementary school girls 2017 – 2018

RELEVANT SKILLS & MEMBERSHIPS

Programming Languages & Software: R / RStudio, Python / Jupyter, MATLAB, ArcGIS, STATA, SQL

Memberships: International Society of Environmental Epidemiology, International Society of Exposure Science