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| Kimberly K. Garrett  PhD, MPH | k.garrett@northeastern.edu  www.kkgarrett.com  (she/they) |

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| Education | |
| December 2021 | **Doctor of Philosophy in Environmental and Occupational Health** University of Pittsburgh, Pittsburgh, PA Advisor: Dr. Jim Peterson Dissertation: *Potential Antidotes to Phosphine Poisoning* |
| May 2017 | **Master of Public Health in Environmental and Occupational Health  with Certificate in Environmental Health Risk Assessment** University of Pittsburgh, Pittsburgh, PA Thesis: *The Effect of Climate Change on the Risk of Anthrax Infection in the Kobuk Valley, Alaska* |
| January 2015 | **Bachelor of Science in Environmental Science** Allegheny College, Meadville, PA Minor in Women’s Studies Senior Thesis: *A Quest for Estrogen: Searching for 17α-Ethinylestradiol in the French Creek Watershed* |

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| Professional & Research Experience | |
| March 2022 - Current | **Social Science Environmental Health Research Institute** PFAS Project Lab, Northeastern University, Boston, MA Postdoctoral Research Associate Supervisor: Dr. Phil Brown Works at the intersection of social and environmental science to assess and address PFAS contamination, studying multi-scalar governance, community activism, and environmental justice, and modeling exposures.   Contributes to NSF and NIEHS funded projects including PFAS-REACH in collaboration with the Silent Spring Institute  Organizes NIEHS funded webinar series to introduce researchers to applications and ethical considerations of emerging technology including artificial intelligence and machine learning. |
| October 2016 – September 2021 | **Department of Environmental and Occupational Health** University of Pittsburgh Graduate School of Public Health, Pittsburgh, PA Graduate Student Researcher Supervisor: Dr. Jim Peterson Identified transition-metal based candidate antidotes to mitochondrial inhibitors including phosphine, cyanide, and azide, designed inhalational exposure protocols for mice and insect models, and assessed the impacts of phosphine on hemoglobin  Methods: UV/VIS electronic absorption, stopped-flow, FTIR and, EPR spectroscopy, high-resolution respirometry, anaerobic environments  Completed summer research rotation studying the impacts of trivalent arsenic on myoblast formation and assessed an insect model for As(III) toxicity screening. |
| November 2016 – April 2017 | **Allegheny County Health Department** Department of Epidemiology and Biostatistics, Pittsburgh, PA Intern  Conducted county-wide Lyme disease surveillance, classified case reports, and maintained PA-NEDSS records. |
| August 2016 – March 2017 | **Department of Decision Science** Carnegie Mellon University, Pittsburgh, PA Research Assistant Prevention Options for Women Evaluation Research (POWER) Project  Designed and analyzed behavioral health surveys studying attitudes, behaviors, and knowledge of HIV prevention in young people in Kenya and South Africa. |
| January – August 2015 | **Meadville Community Wellness Initiative** Allegheny College, Meadville, PA Research AssistantDesigned and disseminated behavioral and environmental health surveys for seventh and fifth grade students, assessed community food, transportation, and recreation access based on results |
| May – September 2014 | **Shenango River Watchers** Sharon, PA Intern  Managed administrative office of conservation nonprofit, designed communication materials and organized fundraising events |

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| Publications | |
| Accepted | **Garrett, K. K.,** Brown, P., Varshavsky, J., & Cordner, A. (2022). Improving Governance of “Forever Chemicals” in the US and Beyond. *OneEarth*. |
| Published | Salvatore, D., Mok, K., **Garrett, K. K.,** Poudrier, G., Brown, P., Birnbaum, L., Goldenman, G., Miller, M., Patton, S., Poehlein, M., Varshavsky, J., & Cordner, A. (2022). Presumptive Contamination: A New Approach to PFAS Contamination Based on Likely Sources. *Environmental Science & Technology Letters.* |
| Published | **Garrett, K. K.,** Frawley, K. L., Totoni, S. C., Bae, Y., Peterson, J., & Pearce, L. L. (2019). The Antidotal Action of Some Gold (I) Complexes Toward Phosphine Toxicity. *Chemical Research in Toxicology* 32 (6), 1310-1316 |
| Published | Praekunatham, H., **Garrett, K. K.,** Bae, Y., Cronican, A. A., Frawley, K. L., Peterson, J., & Pearce, L. L. (2019). A Cobalt Schiff-Base Complex as a Putative Therapeutic for Azide Poisoning. *Chemical Research in Toxicology* 33 (2), 333-342 |

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| Presentations | |
| June 2022 Poster | “Presumptive Contamination: A New Approach to PFAS Contamination Based on Likely Sources” *Third National PFAS Meeting: Highly Fluorinated Compounds – Environmental Justice and Scientific Discovery* Wilmington, NC |
| October 2020 Talk | “Tear Gas is a Chemical Weapon: The Toxicology of State Violence”  *Pitt Graduate Student Organizing Committee Science and Society Lecture Series* University of Pittsburgh, Pittsburgh, PA |
| May 2019 Poster | “The Antidotal Action of Some Gold(I) Compounds against Phosphine Toxicity” *Annual Allegheny-Erie Society of Toxicology Meeting* Pittsburgh, PA |
| June 2017 Poster | “Cobalt Schiff-base Macrocycles as Antidotes to Azide Poisoning” *NIH Countermeasures Against Chemical Threats* Boston, MA |
| January 2015 Talk | “Assessing 7th Graders’ Knowledge, Behavior, and Attitudes toward Physical Activity, Nutrition, and Local Foods” *Penn State University Undergraduate Research Conference* Erie, PA Awarded Second Place in Session |
| October 2014 Poster | “Perceptions of Risk of *in Utero* Exposure to Bisphenol A” *Prenatal Programming and Toxicity IV* Boston, MA |
| March 2014 Talk | “Epigenetics: Policing the Pregnant in Fear of the Future” *Democracy Realized? The Legacy of the Civil Rights Movement* Meadville, PA |
| Additional Research Projects (Unpublished & In Progress) | |
| Pending Publication 2021 | **Silver (I) and Cobalt (II) Compounds as Phosphine Antidotes: Results from Mouse and Insect Models** University of Pittsburgh Department of Environmental and Occupational Health  Multifaceted investigation of phosphine’s impacts on cytochrome *c* oxidase, hemoglobin, and radical oxygen species production, and screening of transition-metal based candidate antidotes. |
| Pending Publication 2021 | **A Potential Antidote for Both Azide and Cyanide** University of Pittsburgh Department of Environmental and Occupational Health   Antidote screening and mechanistic investigation of a Co (II/III) compound found to ameliorate both azide and cyanide toxicity in mouse and insect models. |
| Thesis 2017 | **The Effect of Climate Change on Risk of Anthrax Infection in the Kobuk Valley, Alaska** University of Pittsburgh Department of Environmental and Occupational Health  Master’s thesis, environmental risk assessment of anthrax outbreaks mediated by permafrost melt and potential impacts on indigenous communities and subsistence farmers |
| Unpublished 2016 | **Environmental Risk Factors and Lyme Disease in Pennsylvania: A Geospatial Approach** University of Pittsburgh Department of Behavioral and Community Health Sciences  GIS-based risk assessment and identification of environmental influences on PA Lyme disease incidence including vector population management. |
| Thesis 2014 | **A Quest for Estrogen: Searching for 17α-Ethinylestradiol in the French Creek Watershed** Allegheny College  Senior undergraduate thesis, interdisciplinary research incorporating environmental science, toxicology, and gender studies. Surface water sampling for synthetic estrogens based on anticipated risk. |
| Service & Extracurriculars | |
| April 2022 | Three Rivers Outdoor Company Pittsburgh, PA Birdwatching guide |
| July 2021 | “Meet Pittsburgh’s pigeon whisperer: Kim Garrett” Feature by Dani Janae, Pittsburgh City Paper |
| October 2019 – March 2020 | The National Aviary Pittsburgh, PA Volunteer Docent |
| June 2018 – December 2021 | University of Pittsburgh Graduate Student Organizing Committee Pittsburgh, PA Student Organizer |

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| Skills Inventory | |
| Toxicology Research | Dose-response assessment Inhalational exposure modeling Environmental risk assessment |
| Spectroscopy | Electronic absorption (UV/VIS) Stopped flow Electronic paramagnetic resonance (EPR) Infrared (FTIR) |
| Assays | ELISA HRP/Amplex Red Total coliform assessments |
| Animal Models | Greater wax moth, *Galleria mellonella* African clawed frog, *Xenopus laevis* Mouse, *Mus musculus* |
| Cell Culture | C2C12 myoblasts |
| Other Laboratory | High-resolution respirometry (Orobros) Mitochondrial protein isolation Chemical synthesis Anaerobic atmospheres (glovebox, Schlenk line) Hazardous material handling, bloodborne pathogen and chemical safety |
| Field Research | Sampling design and collection (quadrating, surface water sampling, soil coring) Macroinvertebrate assessment |
| Computer Skills | Mapping: ArcGIS, QGIS, GeoDa Data anlaysis: STATA, Graph Pad Prism, Kaliedagraph, Excel Qualitative analysis: DeDoose Website management: Wordpress Microsoft Office and Google suite |
| Qualitative Methods | Survey design and analysis |