

Evan Routhier

PhD Student - Environmental Science
and Engineering, Harvard University

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My research interests include understanding how environmental contaminants, mainly mercury, released cycle in the environment and affect organisms. I have a breadth of skills applicable to this field of research through my education and various research and career positions

Work Experience

Physical Scientist

May 2020 - May 2022

USGS Mercury Research Laboratory

Performed various methods for collecting, preparing and analyzing environmental samples.

- Trace metal clean sampling techniques for soils, sediments, waters and biota.
- Total mercury analysis (GS-MS), methyl mercury analysis (GC-MS, ICP-MS) and mercury isotope analysis (MC-ICP-MC) plus required sample preparation for each analysis.
- Manuscript and report preparation and reviewing.

Student Trainee

May 2020 - May 2022

USGS Mercury Research Laboratory

Learned methods and techniques used by the mercury research laboratory during undergraduate studies in preparation for full time employment.

Research Experience

Aquatic Toxicology

February 2017 - May, 2019

Karasov group; UW - Madison

Lethal and sublethal effects of the herbicide 2,4-Dichloropheoxycetic acid on model organisms and native Wisconsin fish species

- Animal husbandry (tanked fish)
- Enzyme linked immunosorbent assays for cortisol concentrations
- Data analysis and statistics

Publications

Routhier, E.J., Janssen, S.E., Tate, M.T., Ogorek, J.M., DeWild, J.F., and Krabbenhoft, D.P., 2022, Assessment of mercury in sediments and waters of Grubers Grove Bay, Wisconsin: U.S. Geological Survey Open-File Report 2022-1051, 20 p., <https://doi.org/10.3133/ofr20221051>.

Education

BS Biochemistry

BS Environmental Sciences

University of Wisconsin - Madison | 2020

Ph.D. student in Environmental
Science and Engineering

Harvard University | Cambridge, MA

Awards and Honors

Holstrom Environmental Research Fellowship (2018)

NSF GRFP Honorable Mention (2022)

Eagle Scout (2016)

Affiliations

National Eagle Scout Association

2016-2020

UW - Madison CALS Health and
Research Society

2016-2020

UW - Madison Society for
Biochemistry and Molecular Biology

2017-2020

UW - Madison Environmental
Sciences Organization

2016-2019

Slow Food UW

2016-2019

References

Elsie Sunderland

Harvard University

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Sarah Janssen PhD

United States Geological Survey

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