



Bailey McCarthy Riley (she/her)

Contact information on request

EDUCATION

Wayne State University Detroit, MI
PhD, Analytical Chemistry 2016 – Present
Anticipated Graduation date: November 2022
Thesis Title: *Advancements in Microfluidic Digital PCR and Single Target Analysis*

Saginaw Valley State University Saginaw, MI
B.S., Chemistry with Environmental Emphasis, Art Minor (*cum laude*) 2012-2016

Study Abroad:

Summer Art History and Design Program	2014	Florence, Italy
Research Fellowship - University of Notre Dame	2015	South Bend, IN
Summer Intensive Chinese Language Program	2016	Taipei, Taiwan

EXPERIENCE

House of Reps Committee on Science, Space and Technology, Subcommittee on Environment

Knauss Legislative Fellow Feb 2022-Present Washington, DC

- Establish working relationships with stakeholders, Federal agencies, and professional staff members who hold varying views and interests to develop legislation that best represent the viewpoints of their members and constituents; prepare and hold televised hearings on topics of public interest
- Collaborate directly with committee Press team to develop and execute communications releases regarding hearings, events, and social media campaigns
- Lead hearing coordination - including witness interviews, leading charter development, writing the Chair’s opening statement, and assisting the Chair at the Dias - for the hearing [Now or Never: The Urgent Need for Ambitious Climate Action](#)
- Assisted in charter development - documents communicating complex topics in a distilled manner – and in hearing coordination for the following hearings:
 - [From Gray to Green: Advancing the Science of Nature-Based Infrastructure](#)
 - [What’s the Forecast: A Look at the Future of Weather Research](#)
 - [Assessing Federal Programs for Measuring Greenhouse Gas Sources and Sinks](#)

Annual Reviews

Science Policy Communicator Oct 2020- May 2021 Remote – San Mateo, CA

- Reported to Director of Marketing Communications and Strategic Development, as well as Director of Development, for a non-profit international academic publishing company publishing 51 different review journals
 - Researched and recommended strategies to improve communications on policy to stakeholders from academic backgrounds

- Established a style for concise policy briefing materials on complex scientific subjects, analyzing materials from Annual Reviews’ library of review journals from expert authors
 - Distilled complex subjects to 1–2-page fact sheets intended to communicate scientific policy topics to broad communities of stakeholders
- Created informational materials on science policy options distilled from reviews, co-led conceptual development for “Research-to-Policy” product

National Science Policy Network

Bootcamp Instructor and Editor Apr 2021-Nov 2021 Remote – San Francisco, CA

- Led cohort of 13 students in national graduate programs in a reverse-classroom style bootcamp to learn the foundational concepts of science policy communication
 - Developed educational plans on using students’ specialized knowledge to enhance public understanding of the policy implications of their research
- Worked with students to develop video scripts of each student’s research, which were then broadcast at a virtual event hosted at the closure of bootcamp, and edited science policy communication briefs on a topic of their choice

PUBLICATIONS

Microfluidic Digital Quantitative PCR to Measure Internal Cargo of Individual Liposomes, Bailey McCarthy Riley, Hao Mai, Thomas Linz. *Analytical Chemistry*, 94, 20, 2022.

Phytoremediation Strategies for United Kingdom River Health in the Flood of Climate Change, Bailey McCarthy Riley, John Malloy, Stephanie Piper, Theresa La. *Journal of Science Policy and Governance*, 18, 2, 2021.

Influence of Microfabrication on Digital PCR Performance in Bead-Based Microwell Array Assays, Bailey McCarthy Riley, Cassandra Ward, Thomas Linz. *Analytical and Bioanalytical Chemistry*, 2020, 412.

SELECTED ADDITIONAL ACTIVITIES

Journal of Science Policy and Governance

Associate Editor June 2022-Present Remote, Washington DC

National Science Policy Network

Panel Moderator Dec 2021 Remote, Washington DC

- Moderated panel [Managing Resources and Knowledge in a Changing Climate](#)

SciPol Detroit

Water Injustices Action Group Summer 2021 Detroit, MI

- Worked with a team of other graduate students from Detroit area to develop the policy brief *Permanent Water Shutoff Moratorium and Long-Term Water Affordability Planning*
 - Brief provided four bill recommendations that could be supported to avoid water shutoffs to residents of Detroit and Metro Detroit

REFERENCES

Upon Request