

VINCENT T. DIPIETRI

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Education

- PhD** **Civil and Environmental Engineering** (Projected graduation 2029)
Stanford University
Advisor: Dr. William Mitch
- M. S.** **Environmental Science** (2024)
Towson University
Thesis: *Toilet Bowl Cleaning Tablets as Sources of Chlorine, Bromine, and Disinfection Byproducts in Wastewater Systems*

Advisor: Dr. John D. Sivey
- B. S.** **Double Major** (2022)
- **Chemistry**
 - **Molecular Biology, Biochemistry, and Bioinformatics**, with Biochemistry concentration
- Minor: Public Health**
Towson University

Awards and Scholarships

11. EDGE Fellow (2024)
10. Nominated for the ACS ENVIS Graduate Student Award (2023)
9. Gordon Research Conference on Water Disinfection, Byproducts, and Health Best Poster Runner-up (2023)
8. Nominated for the Eastern Analytical Symposium Graduate Researcher Award (2023)
7. Travel Grant, Towson University Graduate Student Association [Submission of poster abstract and summary of how this presentation will assist your career development] (2023)
6. Graduate Research Assistantship in Environmental Science [Sponsored by the United States Environmental Protection Agency] (2023)
5. National Science Foundation Graduate Research Fellowship Applicant [Awarded to students at Towson University who applied for the NSF-GRFP and demonstrate a sustained interest in academics, research, and outreach] (2023)
4. Fisher College of Science and Mathematics Undergraduate Research Grant [Submission of original research proposal and follow-up scientific paper sharing results] (2022)
3. Floyd Blankenship Memorial Award in Physical Chemistry [Awarded to students for their outstanding performance in Physical Chemistry lecture and laboratory] (2021)
2. Towson University merit-based Provost Scholarship [Awarded to the top 10% of incoming students] (2018 – 2022)
1. Calvert Cliff's Women in Nuclear Scholarship [Awarded to one college freshman per year in Calvert County, MD] (2018)

Professional Appointments

Towson University

- **Lead Researcher**, for Towson's efforts on an EPA grant project (2023 – current)
 - This EPA project aims to investigate the tradeoffs between opportunistic pathogens and disinfection byproducts (DBPs).
 - My role in this project includes (1) develop, implement, and validate methods of analysis for DBPs in finished drinking water, (2) draft procedural documents for solution preparation and data analysis, (3) delegate research tasks and guide two undergraduate researchers, (4) coordinate sample collecting from ~25 utility partners, (5) analyze data, and (6) interpret and disseminate results.
- **Research Mentor**, to undergraduate and high-school student (2022 – current)
 - Enhance mentee's knowledge on real-world application of environmental and analytical chemistry techniques relevant to future laboratory work
 - Train mentee on various instruments to be used for potential research application in addition to common troubleshooting techniques:
 - High-performance liquid chromatography
 - Gas chromatography-electron capture detector
 - Gas chromatography-mass spectrometry
 - Provide student with opportunities for publication through delegation of research tasks
 - Developing experimental methods based on pertinent research questions
 - Guidance on how to prepare and deliver a presentation to a scientific audience
- **Teaching Assistant**, Chemistry (2023 – 2024)
 - Analytical Chemistry [lecture]
- **Adjunct Faculty (Instructor of Record)**, Chemistry (2022 – 2023)
 - General Chemistry 1 [laboratory]
- **Graduate Research Assistant**, Environmental Science (2022 – current)
- **Undergraduate Researcher**, Chemistry (2021 – 2022)

Peer-Reviewed Publications

2. DiPietri, V.; Grady, Z.; Frost, A.; Sivey, J. D. Toilet Bowl Disinfecting Tablets as Sources of Chlorine, Bromine, and Disinfection Byproducts in Wastewater. In preparation.
1. Szczuka, A.; Horton, J.; Evans, K. J.; DiPietri, V. T.; Sivey, J. D.; Wigginton, K. R. * Chloride enhances DNA reactivity with chlorine at conditions relevant to water treatment. *Environ. Sci. Technol.* 2022, 56, 13347–13356. ([Link](#))

Professional Presentations

1. DiPietri, V.; Grady, Z.; Frost, A.; Sivey, J. D. Toilet Bowl Disinfecting Tablets as Sources of Chlorine, Bromine, and Disinfection Byproducts in Wastewater. Gordon Research Conference on Water Disinfection, Byproducts, and Health, South Hadley, MA (2023).

Outreach/Volunteering

Volunteer Graduate Student Representative, Towson University Graduate Student Orientation, discuss the Environmental Science and Studies M.S. program at Towson University to incoming graduate students, answer questions about research opportunities and the program's curriculum (Aug 2023).

Educational Outreach Assistant, *Environmental Aquatic Chemistry*, Topic – Utilizing UV-Vis Spectroscopy to Analyze Environmental Experimental Samples, interactive lecture/lab, two in-person events held at Towson University, assist with delivering a presentation to high-school students in addition to helping with the lab, preparation of experimental samples for students to analyze (Fall 2022)

Volunteer Undergraduate Student Representative, Towson University Freshman Orientation, distribute information about Towson University's chemistry program to prospective students, discuss what the Department of Chemistry can offer to students in terms of research opportunities and education, as well as represent the student body (Apr 2022).