

# Alexandra A. Taraboletti

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## PROFILE

A dedicated scientist and educator with excellent biochemical analytical skills and a demonstrated commitment to learning design. Strong organizational abilities with proven successes in managing multiple academic projects, courses, and volunteering events. Has 10+ years of research experience and scientific writing. Has research experience in liquid chromatography and mass spectrometry, metabolomics, metagenomics, neurobiology, and molecular/cell biology techniques. Highly organized and skilled in written, visual, and verbal communication. Has additional skills in website maintenance and graphic design.

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## EDUCATION

2017-2020 Postdoctoral Fellow in Tumor Biology, Georgetown University, Washington, DC  
2012-2017 Ph.D. in Chemistry (Bioanalytical concentration), University of Akron, Akron, OH  
2012 B.S. in Chemistry, Biology minor, University of Central Florida, Orlando, FL

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## RESEARCH EXPERIENCE

2019-ongoing **Assistant Professor**  
*Principal Investigator*  
*University of the District of Columbia*

**Research:** Designing undergraduate research projects that utilize metagenomics and metabolomics, specifically exploring cell responses to PFAS toxicity and environmental impacts on heterogeneous organism models (ie. sourdough starters).

**Proficiencies:** Designing metabolomics research utilizing LC-MS and H-NMR, analyzing metagenomic data, managing protocols and SOPs, mentoring undergraduate researchers, developing new learning material for students, working with a diverse student population, designing and implementing virtual educational content, communicating with industry/academic partners, and generating manuscripts, grant proposals, and scientific presentations.

2017 – 2020 **Research Assistant, Postdoctoral Fellow**  
*Advisor: Dr. Albert J. Fornace Jr.*  
*Georgetown University*

**Research:** Tumor Biology Program (T32). Applying metabolomics to assess biomarkers in easily accessible fluids following radiation injury, specifically exploring applications of new technology for metabolomic-based biodosimetry and exploring the effect of radiation in the CNS, and methods of drug protection.

**Proficiencies:** Designing metabolomics research utilizing LC-MS and LC-MS/MS, analyzing LC-MS results, maintaining cell lines, designing cell assays, cell models of radiation, mouse/animal husbandry, mouse models of radiation, sterile rodent surgery, rodent anesthesia, tissue histology, analyzing flow cytometry data, immunofluorescence, confocal microscopy, general biochemical assays, analyzing metagenomic data, managing protocols, and SOPs, mentoring undergraduate researchers, communicating with industry/academic partners, and generating manuscripts, grant proposals, and scientific presentation.

- 2012 – 2017     **Research Assistant, Graduate Student**  
*Advisor: Dr. Leah Shriver*  
*University of Akron*
- Thesis Project:** Global Metabolomics study relating the effects of cuprizone and rapamycin to the demyelination and remyelination processes in a murine model.
- Proficiencies:** Designing metabolomics research utilizing LC-ESI-MS, analyzing LC-MS results, maintaining cell lines, designing cell assays, mouse husbandry, animal models of multiple sclerosis, histology, protein expression, general biochemical assays, managing initial lab setup and all inventory, updating/caring for all instrumentation, managing protocols, and SOPs, mentoring undergraduate researchers, communicating with industry/academic partners, and generating manuscripts and scientific presentation.
- 2011 – 2012     **Research Assistant, Undergraduate Student**  
*Advisor: Dr. Richard Blair*  
*University of Central Florida*
- Research:** Applied a mechanochemical pathway to the synthesis of simple and isomorphous doped spinels. The emissive dopants incorporated successfully into the multiple synthesized spinels, matched via XRD, and revealed cathodoluminescent properties. This work culminated in a successful publication and the establishment of a small company.
- Proficiencies:** Mechanochemical synthesis of materials, powder XRD data analysis, lab maintenance, managing protocols and SOPs, and writing manuscripts.
- 2010 – 2012     **Research Assistant, Undergraduate Student**  
*Advisor: Dr. Wade Winterhalter*  
*University of Central Florida*
- Research:** Reviewed projections of temperature changes (warming) during the next 100 years, made by a coupled atmosphere-ocean general circulation model, linked to the optimal life-history strategy of *A. socius*.
- Proficiencies:** Cricket animal husbandry, insect breeding, hemolymph collection, microscopic implantation and surgery, data analysis, and manuscript writing.

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## TEACHING EXPERIENCE

- 2020-Present     **Assistant Professor**  
*University of the District of Columbia*  
Biochemistry I/II – Undergraduate upper-level courses plus lab focusing on core qualitative techniques in biochemistry, and general assays used in a health setting. Lectured, guided, and prepared lab experiments for undergraduate students. Created and instructed virtual/hybrid content.  
Organic Chemistry I/II - Undergraduate-level course plus lab focusing on core qualitative techniques in organic chemistry. Lectured, guided, and prepared lab space for undergraduate students. Created and instructed virtual/hybrid content.
- 2021-2022     **Myrtilla Minor Fellow**  
*University of the District of Columbia*  
 Focused on enhancing teaching and learning practices at the university. Through this faculty fellowship, I improved my own teaching methodologies while also assisting others in course creation and the translation of materials to an online learning environment. Gained valuable experience in educational research and provided a platform to support and collaborate with instructors in developing high-quality courses. Transitioned six courses onto a digital platform and developed one master course (template) for online use.

- 2018            **Guest Lecturer**  
*Georgetown University*  
Core Methods for Biochemistry - Graduate-level course designed to cover advanced biochemistry techniques. Designed course lectures and test material on the topic of mass spectrometry-based metabolomics.
- 2012-2017    **Teaching Assistant**  
*University of Akron*  
Chemistry for Everyone Laboratory - Basic chemistry course designed for non-science majors. Designed course rubric, lectures, presentation material, laboratory manual, lectured, and evaluated material. Trained students having a large range of capabilities and diverse backgrounds.  
Qualitative Analysis Laboratory - Undergraduate-level course focusing on core qualitative techniques in chemistry. Lectured, guided, and prepared lab space for undergraduate students.  
General, Organic, and Biochemistry (GOBC) Laboratory - Undergraduate-level course focusing on core qualitative techniques in biochemistry, and general assays used in a health setting. Lectured, guided, and prepared lab space for undergraduate nursing students.
- 2017            **Guest Lecturer**  
*University of Akron*  
Biochemistry II - Designed course lecture, and test material on the topic lipid metabolism for undergraduate students.
- 2012            **Teaching Assistant**  
*University of Central Florida*  
Physical Chemistry Laboratory - Undergraduate-level upper-level course designed to teach general properties of thermodynamics and quantum mechanics. Designed course lecture and test material, guided students, and prepared the lab space.
- 2012            **“Mad Science” After School Educator**  
*Akron, OH*  
 After school chemistry courses implemented in disadvantaged school districts.
- 2011-2017    **Chemistry/Biochemistry Tutor**  
*Various Locations*  
 Private tutoring for students ranging from high school to college level.
- 2010-2012    **Camp Leader and Educator, Chemistry in the Kitchen Summer Camp**  
*The University of Florida/IFAS Extension*  
 Summer camp course designed to teach chemistry and nutrition information, paired with general cooking skills. Co-designed course structure, lecture, and lab layout and led group instruction to K-12 children. This event partnered with Florida 4-H.
- 2009-2011    **Science Center Educator**  
*Orlando Science Center*  
 Volunteer educator for the exhibit hall [“Dr. Dares Lab”](#). Designed experiments and led hand-on classes for kids (and adults) to grasp basic chemistry concepts.

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## SCIENCE COMMUNICATION AND DESIGN EXPERIENCE

- 2022-Present    **Science Writer**  
*WBDynamics (NHLBI Contract)*  
 Working closely with the NHLBI Conference Workshop Support Contract to provide technical notes and executive summaries for various workshops and conferences. Responsible for capturing the key findings, insights, and outcomes of the workshops and conferences in a concise and informative manner - this includes summarizing the discussions, presentations, and research shared during these events. Collaborates with subject matter experts, researchers, and stakeholders to ensure accurate and effective communication of scientific information.

- 2018-2020 **Graphical Illustrator and Associate Editor**  
*National Postdoctoral Society's monthly newsletter - [The POSTDOCK](#)*  
 Researching, developing and drafting articles, tweets, and web content, for scientific and lay audiences in a timely manner. Pulling digital content, managing image Copywrite, and illustrating images while working with each article's author for the final newsletter production
- 2017-2018 **Graphical Illustrator and Associate Editor**  
*Broadmoor Coop's trimonthly newsletter - [The Broadmoor Bulletin](#)*  
 Developing newsletter layout and design, copyediting, and proofreading articles. Web content maintenance and design.
- 2017 **Guest Writer**  
*Georgetown College of Sciences Editorial Board*  
 Provided clear and concise write-ups for technical and scientific lectures
- 2014 **Pamphlet design**  
*Chemistry Department at the University of Akron*  
 Development and design of the University of Akron's Chemistry graduate program brochure and mailer.
- 2013-2014 **Pamphlet cover design**  
*University of Akron Innovation Symposium*

## JOURNAL PUBLICATIONS

- 2023 **Taraboletti, A.;** Sourdough as a Model Organism for Facilitating Undergraduate Biochemistry and Biology Education in At-Home and In-Person Learning Environments, (In Press) ACS Chemical Education
- 2021 Monessa Jayabalan, Madeline E. Caballero, Alyssa D. Cordero, Brandyn M. White, Kathryn C. Asalone, Madison M. Moore, Esohe G. Irabor, Shari E. Watkins, Kathryn B. Walters-Conte, **Alexandra Taraboletti**, Matthew R. Hartings, Brenda Y. Chow, Bushra A. Saeed, Kathryn A. Bracht, John R. Bracht, [Unrealized potential from smaller institutions: Four strategies for advancing STEM diversity](#), Cell, Volume 184, Issue 24, 2021, Pages 5845-5850, <https://doi.org/10.1016/j.cell.2021.10.030>.
- 2021 Bilinovich, S.M.; Morris, D.L.; Prokop, J.W.; Caporoso, J.A.; **Taraboletti, A.;** Duangjumba, N.; Panzner, M.J.; Shriver, L.P.; Leeper, T.C. [Silver Binding to Bacterial Glutaredoxins Observed by NMR](#). Biophysica 2021, 1, 359-376.  
<https://doi.org/10.3390/biophysica1040027>
- 2020 Ray, L. A.; Pacheco, G.; Taraboletti, A.; Konopka, M. C.; Shriver, L. P. [Imaging Cuprizone-Induced Mitochondrial Dysfunction](#); bioRxiv; p 2020.12.18.423512.
- 2019 Taraboletti, A., Goudarzi, M., Kabir, A., Moon, B., Laiakis, EC., Lacombe, J., Ake, P., Shoishiro, S., Brenner, D., Fornace, AJ., Zenhausem, F. Fabric Phase Sorptive Extraction - [A metabolomic pre-processing approach for ionizing radiation exposure assessment](#). Journal of Proteome Research, 18, 8, 3020–3031
- 2017 Morris, D., Zampino, A., **Taraboletti, A.**, Shriver, L., Leeper, T., Ziegler, C. [Lysozyme-Catalyzed Formation of Conjugated Polyacetylene](#). Polymer Chemistry, 8, 6344-6348.
- 2017 **Taraboletti, A.**, Walker, T., Avila, R., Huang, H., Caporoso, J., Manandhar, E., Leeper, T.C., Modarelli, D., Medicetty, S., Shriver, L. [Cuprizone intoxication induces cell intrinsic alterations in oligodendrocyte metabolism independent of copper chelation](#). ACS Biochemistry, 56(10), 1518-1528.
- 2016 McDonald, L., Liu, B., **Taraboletti, A.**, Whiddon, K., Shriver, L., Konopka, M., & Pang, Y. [Fluorescent Flavonoids for Endoplasmic Reticulum Cell Imaging](#). Journal of Materials. Chemistry B, 4(0), 7902-7908.

- 2016 Shelton, K. L., DeBord, M. A., Wagers, P. O., Southerland, M. R., **Taraboletti, A.**, Robishaw, N. K., ... Youngs, W. J. [Synthesis, anti-proliferative activity, and toxicity of C4\(C5\) substituted N,N'-bis\(arylmethyl\)imidazolium salts.](#) *Tetrahedron*, 72(38), 5729–5743.
- 2015 Huang, H., **Taraboletti, A.**, & Shriver, L. P. [Dimethyl fumarate modulates antioxidant and lipid metabolism in oligodendrocytes.](#) *Redox Biology*, 5(0), 169–175.
- 2014 Chen, Y.-J., Hill, S., Huang, H., **Taraboletti, A.**, Cho, K., Gallo, R., ... Patti, G. J. [Inflammation triggers production of dimethylsphingosine from oligodendrocytes.](#) *Neuroscience*, 279, 113–121.
- 2014 Blair, R. G., Chagoya, K., Biltek, S., Jackson, S., Sinclair, A., **Taraboletti, A.**, & Restrepo, D. T. [The scalability in the mechanochemical syntheses of edge functionalized graphene materials and biomass-derived chemicals.](#) *Faraday Discussions*, 170, 223-233.

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## BOOKS, AND BOOK CHAPTERS

- 2023 Co-Editor, PFAS in the Water and Wastewater Sectors: Fundamentals, Management and Treatment, Water Environment Federation (WEF) (Book complete, pending print/publication).
- 2023 Co-Author, Chapter 03- PFAS Toxicology for Water and Wastewater, WEF PFAS BOOK on “PFAS in the Water and Wastewater Sectors: Fundamentals, Management and Treatment” (Book complete, pending print/publication).
- 2017 **Taraboletti, A. A.** [Chemical and Metabolomic Analyses of Cuprizone-Induced Demyelination and Remyelination](#) [Doctoral dissertation, University of Akron]. OhioLINK Electronic Theses and Dissertations Center.
- 2017 Chemistry for Everyone Lab Manual, University of Akron Chemistry Department, Hayden-McNeil, 2017 edition.

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## PRESS/MEDIA COVERAGE

- 2019 [Meet Alexandra Taraboletti](#), PhD | Postdoc Appreciation Week
- 2019 [Nerd Night DC9](#) "Spaced Out: The Consequences of Cosmic Radiation on the Brain"

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## CONFERENCE PRESENTATIONS

- 2023 **Taraboletti, A.** “Embracing New Technology – How A.I. Fits in the Classroom” **Oral Presentation.** [All-UDC-College of Arts and Sciences Teaching Learning Roundtable](#), University of the District of Columbia, DC, 2023
- 2022 **Taraboletti, A.**, "An Investigation of Per- and Polyfluoroalkyl Substances (PFAS) Toxicity and Metabolic Impacts In Vitro" **Oral Presentation.** [UDC College of Arts and Sciences Fluid and Dynamics Speaker Series](#), University of the District of Columbia, DC, 2022
- 2022 **Taraboletti, A.**, "Applying Metagenomics to Undergraduate Research - through Course-Based Undergraduate Research Experiences (CUREs)" **Oral Presentation.** [All-UDC-College of Arts and Sciences Teaching Learning Roundtable](#), University of the District of Columbia, DC, 2022
- 2021 **Taraboletti, A** "Sourdough Cultures as a Means to Facilitate At-Home Biochemical Research Skills During the COVID-19 Pandemic" **Oral Presentation.** [STEM Education, NOBCCHE](#) 2021
- 2021 **Taraboletti, A.**, Kalunga, R., Levere, M., "Are You Teaching Content, or Just Covering Material" **Oral Presentation.** [All-UDC-College of Arts and Sciences Teaching Learning Roundtable](#), University of the District of Columbia, DC, 2021

- 2021 **Taraboletti, A.,** Kalunga, R., Fredericks, A., Waters, S., Wendt, J., Levere, M., "Are You Teaching Content, or Just Covering Material" **Oral Presentation.** All-College Opening Professional Development Sessions, University of the District of Columbia, DC, 2021
- 2019 **Taraboletti, A.,** Bayduk, M., Teik, D., Laiakis, E., Huang, H., Riggins, R., Huang, J., Fornace, A., "Repurposing the Nrf2-driven Neuroprotective Agent, Dimethyl Fumarate, Against Oligodendrocyte Damage Following Radiation Therapy" **Poster Presentation.** Radiation Research, San Diego, CA, 2019
- 2019 **Taraboletti, A.,** Laiakis, E., Pannkuk, E., Nishita, D., Bujold, K., Bakke, J., Gahagen, J., Authier, S., Chang, P., Bansal, S., Legishetty, V., Braun, J., Green, S., Brenner, D., Fornace, A., "Multi-Omic temporal analysis of total body irradiation impacts on the gut microbiome in Rhesus macaques" **Poster Presentation.** Radiation Research, San Diego, CA, 2019
- 2019 **Taraboletti, A.** "Utilizing Improve for Science Communication" **Oral Presentation.** Scholars in Training Meeting, Radiation Research, San Diego, CA, 2019
- 2019 **Taraboletti, A.,** Bayduk, M., Teik, D., Laiakis, E., Huang, H., Riggins, R., Huang, J., Fornace, A., "Repurposing the Nrf2-driven Neuroprotective Agent, Dimethyl Fumarate, Against Oligodendrocyte Damage Following Radiation Therapy" **Poster Presentation.** International Congress for Radiation Research, Manchester, EN, 2019
- 2019 **Taraboletti, A.,** Laiakis, E., Pannkuk, E., Nishita, D., Bujold, K., Bakke, J., Gahagen, J., Authier, S., Chang, P., Bansal, S., Legishetty, V., Braun, J., Green, S., Brenner, D., Fornace, A., "Multi-Omic temporal analysis of total body irradiation impacts on the gut microbiome in Rhesus macaques" **Poster Presentation.** International Congress for Radiation Research, Manchester, EN, 2019
- 2019 **Taraboletti, A.,** Laiakis, E.C., Fornace Jr., A.J., "Repurposing the neuroprotective agent dimethyl fumarate against white matter damage and cognitive decline after radiotherapy." **Poster Presentation.** AACR, Atlanta, GA, 2019
- 2018 **Taraboletti, A.,** Laiakis, E., C., Song, L., Ake, P., Angdisen, J., Brenner, D., Fornace, A., "Metabolomic Predictors of Radiation Injury Distinguishable in the Proinflammatory Gadd45a-/- Murine Model." **Poster Presentation.** Radiation Research, Chicago, IL, 2018
- 2018 **Taraboletti, A.,** Goudarzi, M., Kabir, A., Moon, B., Laiakis, E., C., Lacombe, J., Ake, P., Brenner, D., Fornace, A., Zenhausem, F. "Fabric Phase Sorptive Extraction - a metabolomic pre-processing approach for ionizing radiation injury." **Poster Presentation.** Radiation Research, Chicago, IL, 2018
- 2018 **Taraboletti, A.,** Goudarzi, M., Kabir, A., Moon, B., Laiakis, E., C., Lacombe, J., Ake, P., Brenner, D., Fornace, A., Zenhausem, F. "Fabric Phase Sorptive Extraction - a metabolomic pre-processing approach for ionizing radiation injury." **Poster Presentation.** Metabolomics, Seattle, WA, 2018
- 2016 **Taraboletti, A.** Huang, H., Shriver, L. "Cuprizone intoxication perturbs central nervous system metabolism." **Poster Presentation.** NEOMED Mass Spectrometry Workshop, Rootstown, OH, 2016
- 2016 Baumann, H., **Taraboletti, A.,** Shriver, L. "Identification of Ketone Body Induced Metabolic Changes in Neural Cells Using Global Metabolomics." **Poster Presentation.** NEOMED Mass Spectrometry Workshop, Rootstown, OH, May 27, 2016
- 2015 **Taraboletti, A.** "Cuprizone intoxication perturbs central nervous system metabolism." **Poster Presentation.** Great Lakes Bioinformatics Conference, West Lafayette, IN, May 19, 2015
- 2014 Huang, H., **Taraboletti, A.,** Shriver, L. "Metabolomic analysis of pathology associated with altered cerebrospinal fluid flow." **Poster Presentation.** Conquer Chiari Research Conference: Advancing Diagnosis, Management & Understanding, Akron, OH, November 7, 2014

- 2014 **Taraboletti, A.**, Caporoso, J., Huang, H., Walker, T., Taschner, M., Ziegler, C., Shriver, L. "Spectroscopic determination of chelating properties and uptake in the cuprizone multiple sclerosis model." **Poster Presentation.** Joint ACTRIMS-ECTRIMS International Meeting, Boston MA, September 12, 2014
- 2014 **Taraboletti, A.**, Huang, H., Avila, R., Bai, C.B., Medicetty, S., Shriver, L. "Global Metabolomic Analysis of Cuprizone Toxicity." **Poster Presentation.** Joint ACTRIMS-ECTRIMS International Meeting, Boston MA, September 12, 2014
- 2014 **Taraboletti, A.** "Global Metabolomic Profiling of Cuprizone-Induced Oligodendrocyte Degeneration." **Poster Presentation.** Great Lakes Bioinformatics Conference, Cincinnati, OH, May 17, 2014
- 2014 **Taraboletti, A.** "Global Metabolomic Profiling of Cuprizone-Induced Oligodendrocyte Degeneration." **Oral Presenter.** University of Akron Student Innovation Symposium, Akron, OH, April 10, 2014
- 2013 **Taraboletti, A.** "Global Metabolomic Profiling of Cuprizone-Induced Oligodendrocyte Degeneration." **Oral Presenter.** Graduate Student Interdisciplinary Research Conference, Cleveland, OH, October 5, 2013
- 2012 Restrepo, D., **Taraboletti, A.** "Mechanochemical Synthesis of Isomorphously Substituted Spinels." **Poster Presentation.** 88th ACS Annual Florida Meeting and Exposition, Tampa, FL, United States, May 19, 2012
- 2012 **Taraboletti, A.**, Sullivan, S., Strohecker, D. "American Chemical Society at the University of Central Florida: Outreach and innovation for undergraduate chapters Abstracts of Papers." **Poster Presentation.** 243rd ACS National Meeting & Exposition, San Deigo, CA, March 25, 2012

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## GRANT AWARDS

- Current: MRI: Acquisition of a New X-Ray Diffractometer to Advance Research and Education in Primarily Undergraduate/Minority Serving Institutions within the District of Columbia; **Alexandra Taraboletti (Co-PI)**, Sponsor: National Science Foundation  
7/28/21-7/31/24
- Current: DoD (HBCU/MI-Equipment/Instrumentation)-Acquisition of HPLC-MS/MS to Accelerate Multidisciplinary Research, Education and Training Capabilities at UDC; **Alexandra Taraboletti (Co-PI)**, Sponsor: Department of Defense  
7/19/22-7/18/25
- Past: A Metabolomic Investigation of Per- and Polyfluoroalkyl Substances (PFAS) Neurotoxicity in Zebrafish (*Danio rerio*); **Alexandra Taraboletti (PI)**, Sponsor: Water Resources Institute  
8/20/21-1/20/23

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## HONORS, AWARDS, AND FELLOWSHIPS

- 2023 **Leader of Promise Award**  
*University of the District of Columbia*
- 2022 **Teaching Excellence Award**  
*University of the District of Columbia*
- 2021 **Leader of Promise Award**  
*University of the District of Columbia*
- 2021 **Program Scholarship**  
*Younger Chemists Leadership Program  
American Chemical Society's Leadership Institute*

- 2018-2020 **Teaching Award**  
*Center for Innovation and Leadership in Education (CENTILE) Teaching Academy for the Health Sciences, Georgetown University*
- 2019 **Outreach Award**  
*National Postdoc Association  
Outstanding Volunteer*
- 2017-2020 **Fellowship**  
*T32 Postdoctoral Fellowship in Tumor Biology  
Georgetown University*
- 2017 **Scholarship**  
*Dr. Franklin Strain Graduate Scholarship in Chemistry  
University of Akron*
- 2013-2016 **Scholarship**  
*Choose Ohio First Bioinformatics Scholarship  
University of Akron*
- 2014 **Presentation Award**  
*University of Akron Student Innovation Symposium  
1st Place Oral Presentation (Biological)*
- 2013 **Presentation Award**  
*Graduate Student Interdisciplinary Research Conference  
2nd Place Oral Presentation (All)*
- 2015 **Presentation Award**  
*Ada Lovelace Symposium  
1st Place Poster Presentation (Physical Sciences)*
- 2013 **Teaching Award**  
*Outstanding Teaching Assistant  
University of Akron*
- 2011 **Outreach Award**  
*Outstanding ACS Undergraduate Section  
University of Central Florida*
- 2007-2012 **Scholarship**  
*Florida Bright Futures Academic Scholars Award*

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## OUTREACH EXPERIENCE

- 2020-Present **Event Supervisor/Coordinator, ACS Project SEED**  
*University of the District of Columbia*  
Project SEED (Summer Experiences for the Economically Disadvantaged) is a paid summer internship program for high school students. For 8 to 10 weeks during the summer, SEED students work in real laboratories, with real scientists serving as their mentors. Students learn about careers in chemistry and receive mentoring in college preparation and professional development.
- 2020-Present **Event Supervisor/Coordinator, You Be the Chemist**  
*University of the District of Columbia*  
Event supervisor for the You Be the Chemist annual regional event for middle school students. The role involves designing an event (within the parameters), coordinating participants and event space, obtaining all materials, coordinating volunteers, judging, and leading the participants on the event day.



- 2017-2020 **Georgetown University Postdoctoral Association Co-Chair**  
*Georgetown University*  
 A postdoc-led organization that supports and builds community. The PDA leadership team welcomes postdocs at monthly meetings and regular events and encourages them to get involved. Co-chairs are in charge of social media contact through various platforms, HTML/email communications, workshop, and event organization, and addressing the university regarding policy changes.
- 2018-2020 **Postdoctoral Representative, Tumor Biology T32 Oversight Committee**  
*Georgetown University*  
 Student and faculty committee to organize and develop the Tumor Biology T32 program directives at Georgetown University. The board organizes all aspects of the graduate program (boards, classes, rotation, defense, etc.) as well as a yearly retreat/symposium, a weekly data meeting, and speaker invitations. The postdoctoral representative's tasks include the organization of the annual retreat, the organization of monthly student journal club meetings, and voicing general concerns of the postdoctoral community.
- 2017-2020 **Research Judge, Biomedical Graduate Education Student Research Day**  
*Georgetown University*  
 Research judge of oral presentations from all disciplines during the Biomedical Graduate Education Student Research Day
- 2014-2017 **Event Supervisor/Coordinator, Ohio Science Olympiad**  
*University of Akron*  
 Event supervisor for the Ohio Science Olympiad, for the following events: Inorganic Chemistry, Polymer Science, Density Lab, and Wright Stuff. The role involved designing an event (within the parameters), obtaining all materials, rubric design, coordinating volunteers, judging, and leading the participants on the event day.
- 2013- Present **Science Fair Judge (Middle School-High School)**
- 2010-2012 **Surgery Floor Assistant, Orlando Health**

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## ADVISORY AND SUPERVISORY RESPONSIBILITIES

2022-Present	Yolanda Torres	Undergraduate (Chemistry)	University of the District of Columbia
2021-2022	Jade Whitter	Undergraduate (Chemistry)	University of the District of Columbia
2021	Chevell Parnell	Undergraduate (Biology)	University of the District of Columbia
2021	Ohane Orr	Undergraduate (Biology)	University of the District of Columbia
2021	Yasheka Dixon	Undergraduate (Biology)	University of the District of Columbia
2020	Yasheika Watson	Undergraduate (Biology)	University of the District of Columbia
2019	Diamond Davis	Undergraduate (Chemistry)	University of the District of Columbia
2019	Tasneem Abdus-Shakur	Undergraduate (Chemistry)	University of the District of Columbia
2017	Jill Kodger	Graduate (Chemistry)	University of Akron
2016-2017	Nino Kovaljesko	Graduate (Biochemistry)	University of Akron
2016-2017	Hannah Baumann	Graduate (Chemistry)	University of Akron
2015-2017	Celina Cahalene	Graduate (Chemistry)	University of Akron
2015-2016	Radisa Tosanovic	Undergraduate (Biology)	University of Akron
2015-2017	Spencer Wheeler	Undergraduate (Chemistry)	University of Akron
2015	Colin Haben	Undergraduate (Biochemistry)	University of Akron
2014-2017	Sterling Shribner	Undergraduate (Biology)	University of Akron

2014-2015	Randall Kennedy	Undergraduate (Biochemistry)	University of Akron
2013-2014	Rashmi Binjawadagi	Graduate (Chemistry)	University of Akron
2013-2014	Bavamiv Rajah	BS/MD program	University of Akron
2013-2014	Sarah Hill	BS/MD program	University of Akron

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## CERTIFICATIONS

2022	<b>Multi-Modal Educator (HyFlex) Training Certification</b> <i>Learning Resources Division, Center for the Advancement of Learning University of the District of Columbia</i>
2021	<b>Online Course Design Certification</b> <i>Learning Resources Division, Center for the Advancement of Learning University of the District of Columbia</i>
2021	<b>Online Teaching Only Certification</b> <i>Learning Resources Division, Center for the Advancement of Learning University of the District of Columbia</i>
2021	<b>Responsible Conduct of Research</b> <i>Protecting Human Research Participants - Online Training</i>
2020	<b>MRF Startup Collaboration</b> <i>Momental (formally Mistletoe) Foundation</i>
2020	<b>Open Water Diver</b> <i>PADI</i>

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## PROFESSIONAL SOCIETIES

2020-Present	NOBCCChE Faculty mentor of UDC chapter (2021-ongoing)
2010-Present	ACS (American Chemical Society) President of UCF undergraduate chapter of ACS (2010-2012); Faculty mentor of UDC chapter (2021-ongoing)
2018-2021	Radiation Research Society
2018-2020	Metabolomics Society
2017-2020	National Postdoctoral Association
2017-2020	Georgetown University Postdoctoral Association (GU PDA)
2015-Present	Golden Key International Honors Society
2014-2017	MSNO (Microscopy Society of Northeastern Ohio)
2013-2017	ISCB (International Society for Computational Biology)
2013-2017	ASMS (American Society for Mass Spectrometry)

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## TECHNICAL SKILLS

Platforms: Windows, macOS, and Linux (Ubuntu and CentOS)

Languages: Familiarity - Python, R, HTML, and CSS

Software: Office Suite (Word, Excel, PowerPoint), Adobe Suite (Illustrator, Photoshop, Lightbox), GraphPad Prism, Origin, ChatGPT

Soft Skills: Strong communication skills, both oral and written.  
Excellent analytical, organizational, and time-management skills.  
Experienced educator and mentor.