

Jada R. Hoyle-Gardner, Ph.D.

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PROFESSIONAL SUMMARY

Public health professional who bridges the gap between complex health information and real-world solutions by translating data into actionable insights and fostering culturally responsive strategies that meet the needs of diverse populations. Proven ability to work across academic, policy, and healthcare settings to implement inclusive, community-informed initiatives. Skilled in stakeholder engagement, program design, and performance assessment, with a track record of improving outcomes through collaboration, compelling visuals, and attention to detail. Known for building trust across teams and communities by approaching each project with cultural humility, adaptability, and a commitment to equitable systems change. What sets me apart is my ability to combine rigorous analysis with creative communication, ensuring that vital health information doesn't just reach people - it moves them to action.

CORE COMPETENCIES & TECHNICAL SKILLS

Leadership & Project Execution
Healthcare Administration
Science Communication
Stakeholder Management
Qualitative Research and Data Collection
Microsoft Office Suite

Software: R, Canva, Digital Platforms
Technical Experience: Maternal Health, Health Policy,
Training & Curriculum Development, Early Career
Success Initiatives, Educational Technology
Advanced Excel: Data Transformation,
Presentations/Debriefings

FELLOWSHIPS

2024	NASHP ELC (Emerging Leaders of Color) 2024 Fellow
2023- <i>curr.</i>	NIH IRACDA FIRST Postdoctoral Fellow, Emory University (K12GM000680)
2021-2023	NIEHS Graduate and Postdoctoral Training in Environmental Health Sciences and Technology, Emory University (T32ES012870)

EDUCATION

2021	Florida A&M University, Doctor of Philosophy, Environmental Sciences (Biomolecular Sciences)
2017	Spelman College, Bachelor of Science, Chemistry

PROFESSIONAL EXPERIENCE

NASHP (National Academy for State Health Policy) , Atlanta, GA, USA <i>ELC (Emerging Leaders of Color) Fellow</i>	February 2024- December 2024
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Mentor: Ana Novais, Assistant Secretary, Rhode Island Executive Office of Health and Human Services
10 Hours/Week

- Led strategic healthcare initiative in partnership with senior state policy director, developing a comprehensive framework to address substance exposure in newborns across Rhode Island
- Analyzed complex healthcare data sets and synthesized findings to identify key intervention points in maternal substance use treatment, resulting in actionable recommendations for program improvement
- Supervised stakeholder relationships across multiple sectors, including healthcare providers, community leaders, and government officials, to align objectives and build consensus on policy initiatives
- Streamlined reporting processes for postpartum depression and substance rehabilitation programs, improving data accuracy and accessibility for decision-makers

Emory University, Atlanta, GA, USA
NIH IRACDA FIRST Postdoctoral Fellow

Mentor: Ethel Vereen, Ph.D., Professor, Department of Biology, Morehouse College
40 Hours/Week

August 2023- August 2025

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- Led cross-institutional collaboration initiatives between research institution and Minority Serving Institution (MSI), demonstrating ability to build strategic partnerships
 - Developed and implemented innovative educational programs, resulting in successful transition from observer to Adjunct Faculty position
 - Successfully completed advanced leadership training in administrative operations and organizational management
 - Drove student success initiatives through targeted intervention strategies and performance metrics
 - Demonstrated adaptability by effectively transitioning between research and instructional roles

Emory University, Atlanta, GA, USA

November 2021-August 2023

Postdoctoral Research Fellow, Rollins School of Public Health

Mentor: Sheela Sinharoy, Ph.D.

40 Hours/Week

- Led cross-functional research project analyzing complex biological data sets, delivering actionable insights on environmental health impacts between air pollution and maternal and infant health outcomes
- Directed end-to-end data analysis workflow using R programming, processing and analyzing large-scale metabolomics datasets to identify key patterns and trends
- Developed and implemented data visualization strategies to effectively communicate technical findings to diverse audiences
- Simplified data collection and organization processes, resulting in 30% faster analysis completion and improved team collaboration

Florida A&M University, Tallahassee, FL, USA

August 2017-December 2021

Graduate Assistant, School of the Environment

Mentor: Victor Ibeanusi Ph.D., Ashvini Chauhan., Ph.D.

40 Hours/Week

- Led analytical testing program utilizing advanced spectroscopy techniques (ICP-OES), delivering precise measurements of uranium concentrations across 100+ samples with 99% accuracy
- Designed and executed multi-phase optimization study to enhance bioremediation efficiency utilizing microorganisms
- Led data analysis project using specialized software (Scaffold) to identify key protein biomarkers
- Demonstrated knowledge in analytical chemistry, process optimization, and data analysis while maintaining detailed documentation and adhering to strict laboratory safety protocols

NASA Ames Research Center, Virtual

January 2021-May 2021

Research Assistant, Space Biosciences Division

Mentor: Jonathan Galazka Ph.D.

5 Hours/Week

- Managed development of innovative metabolic framework for space manufacturing applications, resulting in novel solutions for resource-limited environments
- Managed end-to-end research project analyzing bacterial energy utilization
- Spearheaded development of predictive modeling system to simulate bacterial growth patterns, enabling rapid testing of multiple scenarios with 90% accuracy to experimental data
- Orchestrated a comprehensive technical analysis through extensive literature review

Oak Ridge National Laboratory (ORNL), Oak Ridge, TN, USA

May 2018- August 2018

Research Assistant, Environmental Sciences Division

Mentor: Scott Brooks, Ph.D.

40 Hours/Week

- Coordinated environmental monitoring project analyzing methylmercury transport patterns in soil slurry

environments

- Oversaw end-to-end laboratory operations including experimental design, quality control protocols, and data validation for time-sensitive mercury transport studies
- Executed complex analytical procedures using advanced instrumentation (Lumex) to track concentration variations, processing 50+ samples weekly while maintaining strict quality standards
- Collaborated cross-functionally with multidisciplinary research teams to troubleshoot technical challenges and present findings in weekly strategy sessions

Georgia State University, Atlanta, GA, USA

May 2016-August 2016

Research Assistant, Chemistry Department

Mentor: Binghe Wang, Ph.D.

40 Hours/Week

- Under minimal supervision, facilitated cross-functional laboratory collaborations in developing innovative pharmaceutical delivery systems for cancer research
- Monitored experimental protocols for controlled H₂S production and product quality
- Coordinated with laboratory leaders across chemistry, biology, and engineering departments to align project objectives and deliverables

Spelman College, Atlanta, GA, USA

May 2015-May 2016

NSF STEM Undergraduate Research Educator (SURE)

Mentor: Viveka Borum, Ph.D., Shannon Sung, Ph.D.

20 hours/Week

- Created research initiatives analyzing student engagement patterns across high school summer school classes, resulting in data-driven recommendations that increased classroom participation and completion
- Designed and implemented multi-phase assessment strategy, managing 3 distinct evaluation methods (collaborative projects, interactive learning modules, and performance metrics) to optimize knowledge retention
- Developed and executed comprehensive data collection system, including stakeholder surveys and analytical tools, reaching 1000+ students and 50+ administrators across metropolitan school district
- Leveraged quantitative and qualitative analysis to produce actionable insights, resulting in revised, adaptable teaching methodologies

Spelman College, Atlanta, GA, USA

January 2014-May 2017

Undergraduate Research Assistant, Chemistry and Biochemistry Department

Mentor: Lisa Hibbard, Ph.D.

20 Hours/Week

- Led cross-functional research initiative to evaluate chemical compound interactions, managing end-to-end project timeline and delivering results within specified parameters
- Facilitated the investigation of novel chemical applications, analyzing market research and existing data to identify potential breakthrough solutions for vision health products (cataracts)
- Implemented quality control measures and standardized procedures for UV radiation studies, ensuring consistent and reproducible results
- Developed and optimized testing methodologies for protein structure analysis, reducing analysis time by utilizing fluorescence spectroscopy techniques
- Coordinated multiple simultaneous experiments while maintaining detailed documentation

TEACHING EXPERIENCE

Academic Appointments

2025-2026	Lecturer, Biology Department, Spelman College
Fall 2025	Adjunct, Biology 114L: Populations, Community, and Biosphere, Morehouse College
Summer 2025	Emory University Pre-College “Clinical Trials: Think Like a Medical Researcher” Instructor
Summer 2025	Morehouse Accelerated Academic Program (MAAP) Biology Instructor
Summer 2025	TRIO Instructor, Morehouse College
Spring 2025	Adjunct, BIO112L General Biology Laboratory (Science Majors) Morehouse College
Spring 2025	Instructor, Biology 142L: Foundations of Modern Biology I Lab Emory University
Fall 2024	Instructor, Biology 141L: Foundations of Modern Biology I Lab Emory University
Fall 2024	Adjunct, Biology 114L: Populations, Community, and Biosphere, Morehouse College
Summer 2024	TRIO Instructor, Morehouse College
Spring 2024	Instructor, Biology 142L: Foundations of Modern Biology I Lab Emory University
Spring 2024	Adjunct, Biology 114L: Populations, Community, and Biosphere, Morehouse College
Fall 2023	Instructor, Biology 141L: Foundations of Modern Biology I Lab Emory University
Fall 2023	Co-Instructor, Biology 306L 01: General Microbiology Lab (for Science Majors), Morehouse College

Administrative Appointments/Leadership Roles

2023	Chris Fan, Undergraduate Honors Thesis Committee Member
2023	FIRST Executive Committee Member
2023	Community Clinical Liaison, OB-GYN, Grady Hospital
2021	E-Board, Postdoctoral Council on Diversity, Emory University
2020-2022	PE-STEM: After School Facilitator

TRAININGS, LICENSES, & CERTIFICATIONS

American Chemical Society’s 2023 Postdoc to Faculty (P2F) Workshop
 American Public Health Association (APHA) Policy Action Institute (PAI)
 Frontiers in Environmental Science and Human Health (FrESH) Training Program
 Alda Center’s Women in STEM Leadership Program
 Scientists Teaching Science Online Asynchronous Course
 Inclusive STEM Teaching Workshop
 Responsible Conduct of Research for Postdocs, Medical Research Fellows and Early Career Researchers
 Infectious Disease Transmission Models for Decision-Makers (Coursera)
 Columbia University’s Microbiome Data Analytics Boot Camp: Planning, Generating, and Analyzing 16S rRNA Gene Sequencing Surveys
 NIH Resilience Training Program (RTP)
 Leadership Certificate Program (Emory University School of Medicine)
 Human Subject Research Track (RCR) (CITI Program)
 Essential Epidemiologic Tools for Public Health Practice Essential Epidemiologic Tools for Public Health Practice (Coursera)

VOLUNTEER EXPERIENCES

Morehouse College Biology Club Research and Professional Development Advisor (2024-2025 academic year)
STEM Penpal, Letters to a Pre-Scientist (September 2023-March 2024)
Science Mentor, CuriOdyssey (September 2020- April 2024)
Sister Song, Inc Conferemce Facilitator and Session Manager (2022, 2024)
Laboratory Demonstrator (You Are Your Environment) Day, FAMU School of the Environment February 2020
Youth Mentor, Dreamers Inc, Tallahassee, FL. August 2019-December 2021

PEER-REVIEWED PUBLICATIONS

- 1) **Hoyle-Gardner, J.**, Liang, D., Tang, Z., Sivalogan, K., Diaz-Artiga, A., McCracken, J., Mollinedo, E., Tran, V., Wang, J., Ramakrishnan, U., Clasen, T., Thompson, L., and S. Sinharoy. "Household Air Pollution Exposure is Associated with Perturbations in Metabolic Pathways in Human Milk: An Untargeted Metabolomics Analysis from Guatemala." *In progress*.
 - 2) **Hoyle-Gardner, J.**, Badisa, V.LD, Shahid, S., Li, R., Ibeanusi, V., and B. Mwashote. 2023. "*Bacillus sp.* strain MRS-1: A potential candidate for uranyl biosorption from uranyl polluted sites." *Saudi Journal of Biological Sciences.* 30 (12).
 - 3) **Hoyle-Gardner, J.**, Badisa, V.LD, Ibeanusi, V., Jones, W., Gaines, T., Lowenthal, H., Tucker, L. and B. Mwashote. 2021. Lead metal biosorption and isotherms studies by metal resistant *Bacillus* strain MRS-2 bacterium. *Journal of Basic Microbiology.* 1-12.
 - 4) **Hoyle-Gardner, J.**, Badisa, V.LD, Ibeanusi, V., Mwashote, B., Jones, W., and A. Brown. 2020. Application of Innovative Bioremediation Technique using Bacteria for Sustainable Environmental Restoration of Soils from Heavy Metals Pollution: A Review. *Journal of Bioremediation & Biodegradation.* 11:3.
 - 5) Chen, G., Li, R., Ibeanusi, V., **Hoyle-Gardner, J.**, Crandall, C., Seaman, J., and A. Anandhi. 2019. Bacterial-Facilitated Uranium Transport in the Presence of Phytate at Savannah River Site. *Chemosphere.* 223, 351-357. doi.org/10.1016/j.chemosphere.2019.02.064.
 - 6) Ibeanusi, V., Pathak, A., Chauhan, A., **Hoyle-Gardner, J.**, Cooper, T., Turker, L., Howard, H., Obinegbo, O., and J. Seaman. 2018. Genome-Centric Evaluation of *Bacillus sp.* strain – ATCC55673 and Response to Uranium Biomineralization. *Significances Bioeng. Biosci.*2(3). doi: 10.31031/SBB.2018.02.000539.
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HONORS & AWARDS

Edward A. Bouchet Graduate Honor Society (Emory University Chapter) Inductee (2024)
SisterSong "Let's Talk About Sex" Travel Scholarship Recipient (2022, 2024)
Faculty Women of Color in the Academy Conference Travel Scholarship Recipient (2024)
American Public Health Association (APHA) Policy Action Institute (PAI) Scholarship Recipient (2023)
1st Place, Colgate Smile with Science Symposium Presenter (2022)
1st Place, (Showcase & Research Contest), Alpha Kappa Mu Honor Society 2021 Convention (2021)
2020 David Cooper Scholarship Recipient (Florida Section-Air and Waste Management Association)
DOW 2020 Diamond Symposium Attendee (2020)
NOBCChE (The National Organization for the Professional Advancement of Black Chemists and Chemical Engineers)
Colgate-Palmolive Poster Session Award Recipient (2019)
FAMU School of Graduate Studies and Research Travel Grant (2019)
NOBCChE Advancing Science Conference Grant (ASCG) (2018, 2019, 2022)
Department of Energy Office of Environmental Management MSIPP (Minority Serving Institutions Partnership Program) Grant Funding Recipient (2017-2022)
ACS (American Chemical Society) Certification (2017)
Spelman College's Departmental Service Award (2017)
1st Place, Spelman College's Annual Research Day (2017)
1st Place, Spelman College's Annual Research Day (2014)

LEADERSHIP & VOLUNTEER EXPERIENCE

Summer Undergraduate Research Experience (SURE) Program Reviewer (February 2023, 2024)
Letters to a Pre-Scientist Penpal Mentor (2023-2024)
FIRST Recruitment Representative (2023)
STEMGems Summit: Women Empowering Girls Guest Speaker (March 2023)
CuriOdyssey STEMCorps Program (2022-2023)
Georgia State REU Symposium Judge (August 2022)
Greater Opportunities Advancing Leadership and Science (GOALS) Guest Speaker (Summer 2021)
HBCU Virtual College Tour Speaker (Spring 2021)
School of the Environment, CORE Laboratory Mentor (2018-2021)
Famu Dreamers, Inc (2019-2020)
Undergraduate Laboratory Mentor, Spelman College (2016-2017)

PRESENTATIONS

- “Delivering Your Best Self: Summer Internship”
Spelman College RISE Program Series, Atlanta, GA, USA
- “Resume and CV Writing: A ticket to a chance at a fulfilling career”
Morehouse College Biology Club, Atlanta, GA, USA
- “Household Air Pollution Associated with Perturbations in Breastmilk Metabolome in Guatemalan Mothers Participating in the HAPIN Trial”
ISES Conference 2024, Montreal, Canada
- “Re-thinking science: understanding the impact of inclusive strategies in undergraduate science laboratories”
ESA Conference 2024, California, USA
- “Changing the World of Science”
Morehouse College and Spelman College McNair Scholars, Environmental Justice Scholars, and Morehouse College Public Health Sciences Institute Scholars Seminar, Atlanta, GA, USA
- “STEM QUEENS: Changing The World of Science”
Spelman College RISE Program Series, Atlanta, GA, USA
- “Associations Between Household Air Pollution and the Breastmilk Metabolome of Guatemalan Mothers participating in the HAPIN trial”
APHA Conference 2023, Atlanta, GA, USA
- “Strategies, Promises and Pitfalls to Embracing Culturally Relevant Science Education in an Undergraduate Teaching Laboratory.”
Oral, Black Doctoral Network Conference, 202, Atlanta, GA, USA
- “Uranium Removal From Contaminated Environments Using Bacillus Species.”
Poster, Colgate’s Smile with Science Symposium, 2022, Orlando, FL, USA
- “Application of Microbes for Bioremediation of Contaminated Environments.”
Virtual, Colgate’s Smile with Science Symposium, 2022.
- “Bacteria: Friendly Neighborhood Cleaner.”
Virtual, Dow Diamond Symposium, 2020.
- “Reveal of Uranium Bioremediation Mechanisms by Bacillus Species through Proteomics Studies.”
Poster, Waste Management Symposium, 2020, Phoenix, AZ, USA
- “Investigation of Pathways to Predict Bioremediation of Uranium at Nuclear Sites.”
Poster, NOBCCHE 46th Annual National Conference, 2019, St. Louis, MO, USA
- “Analysis of Growth Dynamics and Protein Expressions of Microbial Mediated Biomineralization of Uranium Contaminated Soils at Savannah River Site, Aiken, SC.”

Poster, NOBCCChE 45th Annual National Conference 2018, Orlando, FL, USA

- “Analysis of Growth Dynamics and Protein Expressions of Microbial-Mediated Biomineralization of Uranium Contaminated Soils at Savannah River Site, Aiken, SC”
Poster, 19th International Conference on Heavy Metals in the Environment; University of Georgia, 2018, Athens, GA, USA
- “Investigation of the Effects of Lanosterol on the Aggregation of B_L-Crystallin.”
Spelman College Research Day 2017, Atlanta, GA, USA
- “UV Radiation and CaCl₂ Effects on the Chaperone Behavior of α -Crystallin.”
Poster, Emory University-Laney Graduate School STEM Research and Career Symposium at Emory Conference Center; 2016, Atlanta, GA, USA
- “Hydrogen Sulfide (H₂S)- The Third Gasotransmitter”
Poster, Georgia State University, 2016, Atlanta, GA, USA