

Trinity A. Johnson

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EDUCATION

Louisiana State University-Baton Rouge, LA

2025

Ph.D. in Environmental Sciences

Dissertation Title: Weathering the Risks: How Risk Communication Shapes Preparedness for Natural Hazards & Extreme Weather in Southeast Louisiana

Dissertation Chair: Dr. Margaret Reams

Committee Members: Dr. Ali Kazemian, Dr. Nina Lam and Dr. Brian Snyder

Purdue University-West Lafayette, IN

2018

M.S. in Youth Development & Agricultural Education

Southern University and Agricultural & Mechanical College-Baton Rouge, LA

2016

B.S. in Agricultural Sciences (Plant & Soil Sciences)

HONORS, AWARDS & FELLOWSHIPS

LSU Future Scholars Fellowship	2024-2025
Lt. General Julius Becton Jr. Memorial Scholarship Recipient	2024
National Science Foundation Bridge to Doctorate Fellowship	2022-2024
American Association for the Advancement of Science Emerging Researchers National Conference in STEM, 1 st Place Graduate Oral Presentation Winner in Ecology, Environmental and Earth Sciences	2024
NASA DEVELOP Developer of the Year-Langley Research Center	2023
NASA Lifelines Fellowship	2023
LSU College of the Coast and Environment Leadership in Diversity, Equity and Inclusion Award	2023
University of Illinois Extension Dig-In Award	2021
Purdue University Summer Research Opportunity Program, 1 st Place Poster Presentation Winner	2016
Purdue University Summer Research Opportunity Program, 1 st Place Oral Presentation Winner	2016

GRANTS

Coastal and Environmental Graduate Organization Travel Grant. (\$500).	2024
Compeer Financial. "The Food Action Academy: Creating Youth Advocates within the Food System." (\$50,000).	2021-2022
Archer Daniels Midland. "Ignite: Creating a Spark for Ag+STEM Careers in 4-H Youth." (\$20,000).	2020-2021
Archer Daniels Midland. "Finding Your Spark in 4-H: Enhancing Youth Interest in Ag+STEM." (\$20,000).	2019-2020
Archer Daniels Midland. "See Me in STEAM: Building Youth Interest in Ag+STEM Careers." (\$20,000).	2018-2019

ACADEMIC & PROFESSIONAL EXPERIENCES

Institute for Energy Innovation

August 2022 - July 2025

Louisiana State University-Baton Rouge, LA

- Assisted with the development, organization, and planning of research and evidence-based workshops and seminars.
- Organized civic engagement opportunities in collaboration with local community leaders and stakeholders to support the needs of local community members.
- Collaborated with team members to develop a Community Benefits Plan and community engagement resources in partnership with the Department of Energy, academic institutions, industry partners, grassroots organizations, and environmental justice leaders.
- Developed innovative and creative materials such as documents, presentations, reports, and other deliverables.
- Established relationships and partnerships with community partners, stakeholders, policymakers, professionals, and organizations to promote energy literacy and innovation.

NASA Lifelines Programs Fellow

November 2023 - May 2024

Remote

- Assist in outreach efforts to minority-serving institutions, tribal colleges, and historically Black colleges and universities.
- Co-design the Ready for Impact incubator program for humanitarian Earth Science teams looking to scale their proven innovations using satellite data and tools for humanitarian decision-making before, during, or after a crisis.
- Liaise with applicants, mentors, and funders to facilitate programming, support teams, and refine pitch development for the Ready for Impact humanitarian innovation showcase.

NASA DEVELOP-Geospatial Analyst Intern

June 2023 - August 2023

Langley Research Center-Hampton, VA

- Conducted in-depth spatial analyses using Geographic Information Systems to assess flood risk and environmental hazards in Richmond, Virginia, and surrounding areas.
- Collaborated with a diverse team of policymakers, scientists, stakeholders, and graduate students to produce and present a peer-reviewed technical report, poster, presentation, and ArcGIS Pro maps.
- Engaged with NASA leaders in science and technology to discuss their roles in advancing NASA's mission.
- Participated in weekly meetings with local community leaders and organizations to provide progress reports and discuss solutions to local environmental justice issues and challenges.

Global Network Coordinator

March 2022 - July 2022

Louisiana State University AgCenter-Baton Rouge, LA

- Fostered strategic international partnerships with universities by formalizing collaborations through Memoranda of Understanding (MOUs).
- Supported faculty-led research initiatives, academic exchanges, and the development of joint programs across diverse disciplines.
- Led global recruitment efforts for summer research internships and graduate programs at LSU, ensuring alignment with faculty research interests and institutional priorities to improve enrollment pipelines and enhance international engagement.

4-H Youth Development STEAM Specialist

June 2021 - March 2022

Southern University Ag Center-Baton Rouge, LA

- Curated innovative, hands-on STEAM-based youth development programs, with an emphasis on engaging underserved and underrepresented communities.
- Developed and delivered training sessions and workshops for 4-H agents, educators, and volunteers to build capacity in science and technology education statewide.
- Directed community outreach initiatives by collaborating with schools and local organizations to recruit youth and expand access to high-quality STEM learning opportunities.

4-H Youth Development Extension Educator

October 2018 - June 2021

University of Illinois Urbana-Champaign-Champaign, IL

- Collaborated with various international universities, organizations, and agencies to facilitate an innovative global Youth Food Action Academy to discuss problems within the food system and agricultural industry.
- Composed high-quality grant proposal narratives, applications, and supporting documents.
- Conducted needs assessments and developed strategic plans for local community organizations and stakeholders.
- Delivered culturally relevant high-impact programs utilizing innovative mechanisms to optimize reach and effectiveness.

RESEARCH PUBLICATIONS

Johnson, T., Esters, L.T., Knobloch, N.A., & Proctor, S.H. (2019). A follow-up study of underrepresented minority students' perceived value of a pre-graduate program experience in Ag+STEM disciplines. *North American Colleges and Teachers of Agriculture (NACTA) Journal*, 63(2).

PRESENTATIONS

Invited Talks

Johnson, T.A. (2025). National Wildlife Federation. American University Institute for Responsible Carbon Removal. Carbon Removal Justice Fellows Program. Baton Rouge, LA.

Johnson, T.A. (2025). Invited panelist: "Southeast & Caribbean Disaster Resilience Partnership Mentorship Panel, Wilmington, NC. February 2025.

Johnson, T.A. (2024). Co-Production and Community Engagement. Louisiana Sea Grant Science Communication Summit. New Orleans, LA.

Conference Presentations

Johnson, T.A., Tanner, K., Thiele, B., & Lincoln, M. (2024). Tracking and Assessing Stormwater Flooding in Richmond, Virginia, to Improve Water Quality Monitoring and Resource Management. American Association for the Advancement of Science Emerging Researchers National Conference in STEM. Washington, D.C.

Johnson, T.A. (2024). Tracking and Assessing Stormwater Flooding in Richmond, Virginia, to Improve Water Quality Monitoring and Resource Management. Louis Stokes Alliance for Minority Participation Conference. Baton Rouge, LA.

Johnson, T.A. (2024). Tracking and Assessing Stormwater Flooding in Richmond, Virginia, to Improve Water Quality Monitoring and Resource Management. National Science Foundation Building Future Faculty in STEM Conference. Baton Rouge, LA.

Clark, Q.M., Rehmat, A.P, Esters, L.T., Knobloch, N.A., **Johnson, T.A.** Vollmer, D., Alexander, E. & Hester, U. (2018). Developing community and culturally relevant connections through contextualized agricultural life science learning activities. 17th Annual Hawaii International Conference on Education, Honolulu, HI.

Knobloch, N.A., Esters, L.T., Diefes-Dux, H.A., Rehmat, A.P., **Johnson, T.A.**, Vollmer, D., Alexander, E. & Hester, U. (2018). Enhancing minority middle school students’ knowledge, literacy, and motivation in STEM using culturally relevant contexts. American Society of Engineering Education, Salt Lake City, UT.

Johnson, T.A. (2016). The Development of a Nitrogen Release Curve. Summer Research Opportunity Program Conference. West Lafayette, IN.

PROFESSIONAL ASSOCIATIONS & MEMBERSHIPS

American Association for the Advancement of Science	2022-Present
American Geophysical Union	2022-Present
American Meteorological Service	2022-Present
Coastal and Environmental Graduate Organization	2022-Present
Ecological Society of America	2016-Present
International Association of Emergency Managers	2023-Present
National Science Foundation Natural Hazards Engineering Research Infrastructure	2024-Present
Purdue Alumni Association	2018-Present
Southeast & Caribbean Disaster Resilience Partnership	2024-Present

SERVICE TO THE PROFESSION

Conference Steering & Planning Committee, Southeast & Caribbean Disaster Resilience Partnership Annual Meeting, Wilmington, NC. August 2024-February 2025.

Conference Steering & Planning Committee, Louisiana Sea Grant Science Communication Summit, New Orleans, LA. August 2024-November 2024.

NASA Lifelines Ready for Impact Innovation Showcase Planning Committee, Washington, D.C. November 2023-June 2024.