

TRINITY A. JOHNSON

EDUCATION

DOCTORATE OF PHILOSOPHY, ENVIRONMENTAL SCIENCES

Louisiana State University | 2022 - 2026

MASTER OF SCIENCE, YOUTH DEVELOPMENT & AGRICULTURAL EDUCATION

Purdue University | 2016 - 2018

BACHELOR OF SCIENCE, AGRICULTURAL SCIENCES

Southern University and A&M College | 2013 - 2016

ACADEMIC & PROFESSIONAL EXPERIENCES

NATIONAL SCIENCE FOUNDATION BRIDGE TO THE DOCTORATE FELLOW

Louisiana State University | August 2022 - Present

- Assisted with the development, organization, and planning of research and evidence-based workshops, trainings, 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 STEM integrated curriculum to engage K-12 students in culturally relevant learning experiences.
- Developed innovative and creative materials such as documents, presentations, reports, and other deliverables.
- Established and maintained relationships and partnerships with community partners, STEM professionals, and organizations to promote career exploration via culturally relevant mentoring experiences.

CONTACT INFORMATION

Email Address:

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HONORS & AWARDS

- 2024 AAAS Emerging Researchers National Conference in STEM (1st Place) Graduate Oral Presentation Winner in Ecology, Environmental, and Earth Sciences
- 2023 NASA DEVELOP DEVELOPER of the Year Langley Research Center
- 2022-2023 LSU College of the Coast and Environment Leadership in Diversity, Equity, and Inclusion Award
- 2021 University of Illinois Extension Dig-In Award
- Purdue University Summer Research Opportunity Program Poster Presentation Competition (1st Place)
- Purdue University Summer Research Opportunity Program Oral Presentation Competition (1st Place)

PROFESSIONAL ASSOCIATIONS & MEMBERSHIPS

- American Association for the Advancement of Science
- Alpha Kappa Alpha Sorority, Incorporated
- American Geophysical Union
- American Meteorological Service
- Coastal and Environmental Graduate Organization
- Ecological Society of America
- Minorities in Agriculture, Natural Resources, and Related Sciences
- Purdue Alumni Association

NASA LIFELINES PROGRAMS FELLOW

NASA Lifelines Remote | November 2023 - Present

- 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 utilizing 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 - LANGLEY RESEARCH CENTER GEOSPATIAL ANALYST INTERN

NASA Langley | June 2023 - August 2023

- 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 scientists, stakeholders, and 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 the mission of NASA.
- Participated in weekly meetings with local community leaders and organizations to provide progress reports and discuss solutions to local environmental challenges.

UNIVERSITY OF ILLINOIS EXTENSION

4-H YOUTH DEVELOPMENT EXTENSION EDUCATOR

University of Illinois Urbana-Champaign | Oct. 2018 - June 2021

- 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 high-impact programs and events to diverse audiences utilizing innovative mechanisms to optimize reach and effectiveness.

ACADEMIC & PROFESSIONAL PRESENTATIONS

- Tanner, K., **Johnson, T.A.**, Thiele, B., & Lincoln, M. 2023. Tracking and assessing Stormwater Flooding in Richmond, Virginia, to Improve Water Quality Monitoring and Resources Management. NASA Headquarters. Washington, D.C.
- **Johnson, T.A.** 2021. Food Justice and 4-H. Illinois 4-H Virtual Food Action Summit, Champaign, IL.
- Brown, Z., Esters, L.T., Knobloch, N.A., Alexander, E., Allen, B.C.M., Clark, Q.M., Cropps, T., Hester, U., Huang, Y., **Johnson, T.A.**, Merzdorf, J., Kornegay, R., & Vollmer, D. (2019). Advancing diversity and inclusion through a multifaceted mentoring program. 11th Conference on Understanding Interventions that Broaden Participation in Science Careers, Baltimore, MD.
- Clark, Q. M., Rehmat, A. P., Esters, L. T., Knobloch, N.A. Alexander, E. M., Hester, U., **Johnson, T.A.**, & Vollmer, D. (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., Diefus-Dux, H.A., Rehmat, A.P., Clark, Q. M., Hester, U., **Johnson, T.A.**, Vollmer, D., Alexander, E. (2018). Enhancing minority middle school student knowledge, literacy, and motivation in STEM using culturally relevant contexts. Poster presented at the ASEE (American Society of Engineering Education Salt Lake City, UT.

PUBLICATIONS

- **Johnson, T.**, Esters, L. T., Knobloch, N. A., & Proctor, S.H. 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).

GRANTS RECEIVED

- **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.