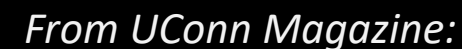




Dr. Talitha Washington

www.DataScience.aucenter.edu



<https://magazine.uconn.edu/2022/06/14/revenge-of-the-data-scientists>

What is data science?

“goal of data science is the extraction of useful information from a data set”

“African American individuals account for **12%** of the US as a whole* but only **3%** of Data & Analytics professionals.”



Our Team



Talitha Washington,
PhD, Director &
Professor of
Mathematics, Clark
Atlanta University



H. Justin Ballenger,
PhD, Deputy Director
& Assistant Professor
of STEM Education,
Morehouse College



Bettina Gardner
Administrative
Director



Tommy Taylor Jr
Communications
Specialist



Eboni Dotson, PhD
Executive Assistant



Manoah Farmer
Data Analyst



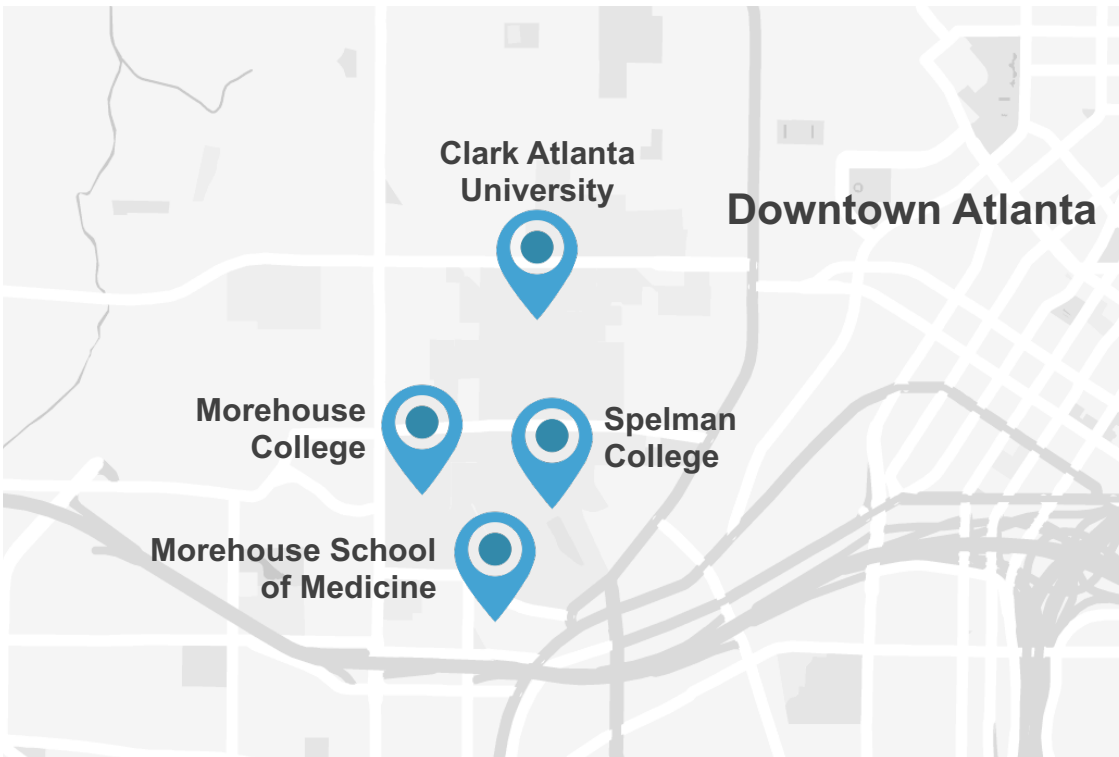
We are committed to advancing data science, artificial intelligence, machine learning, and cybersecurity techniques that address ethics and bias, with a focus on topics that impact Black America



Carolyn Rhodes
Recruiting
Coordinator



Atlanta University Center: Atlanta Student Movement



A 90-year-old consortium of HBCUs
serving approximately 9,000 (primarily
African American) students



<https://www.snclegacyproject.org/julian-bond>

Historically Black Colleges and Universities (HBCUs)

- “established prior to 1964, whose principal mission was, and is, the education of Black Americans”, Higher Education Act of 1965
- Approximately **101** HBCUs & **10** have R2 status
- HBCUs make up **3%** of all institutions in higher education and enroll **10%** of Black students
 - HBCUs graduate **24%** of Black students with STEM degrees, even though they enroll **10%** of all Black students
 - HBCUs are the institution of origin of almost **30%** of Black graduates in STEM doctorate programs



AUC Data Science Initiative

Goal 1 **Develop Talent**

Be a significant producer of African Americans with expertise and credentials in data science

Goal 2 **Create New Knowledge**

Lead national efforts to address race, gender, and social justice aspects of data science



CURRICULUM



RESEARCH



ENGAGEMENT

Catalyzing Through Partnerships

Co-develop Programs,
Guest Lectures, and
Provide Real World
Applications

Industry



Research, Training,
and Workforce
Development

Students

Faculty

Research Discovery,
Expand Pathways, and
Develop Curriculum



Our Sponsors



Industry Engagement

DINNER & DATA

How to \$ecure an Internship



AUC Students!

Join us for a FREE dinner along with networking, resume review, and professional photos with the AUC Data Science Initiative.



Thursday, September 8th, 2022
5:00pm-7:30pm



AUC Robert W. Woodruff Library
3rd Floor - Exhibit Hall



Must RSVP to attend:

<https://tinyurl.com/DandDInternship>



The AUC Data Science
INITIATIVE



Travel and Training

The Travel and Training Support Program aims to increase the participation and engagement of AUC students, faculty, and staff in data science. Support for virtual conferences may be included. Click below for more information.

[LEARN MORE AND APPLY ➔](#)

Faculty Recruitment

The AUC Data Science Initiative has allocated funds to work collaboratively with our AUC member institutions to recruit and hire faculty who have expertise in data science or data science-related fields. These funds are intended primarily to assist with the hiring of data science faculty at an AUC member institution and augment not supplant existing support for faculty recruitment and hiring.

[LEARN MORE & APPLY ➔](#)

datascience.aucenter.edu/faculty-and-staff/

Y G G fb F fun brain Games pbskids khan in 1010 Home Bb edline X multiplication



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JOIN OUR AUC
AFFILIATE
PROGRAM

The Atlanta University Center Data Science Initiative (AUC DSI) Affiliate Program supports AUC faculty and staff who are actively engaged in advancing data science research or data science teaching.

Discover the unparalleled benefits of becoming an Affiliate today!



Empowering Our AUC Innovators

The AUC Data Science Initiative designs and implements programming to support faculty research and curriculum development and to grow student research and learning capabilities.

Mini-Grant Program

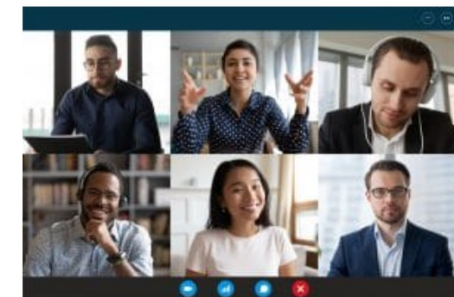
The AUC Data Science Initiative invites [Affiliates](#) to apply for mini-grants to stimulate data science-related research and curriculum development productivity. If you are not an [Affiliate](#), please inquire with AUC DSI. The mini-grants aim to strengthen research and inform teaching.

The Mini-Grants Program has four tracks:

Track 1: Curriculum Development

Track 2: Research Development

2022 Virtual Summer Workshops



We invite AUC faculty, staff, and graduate students to

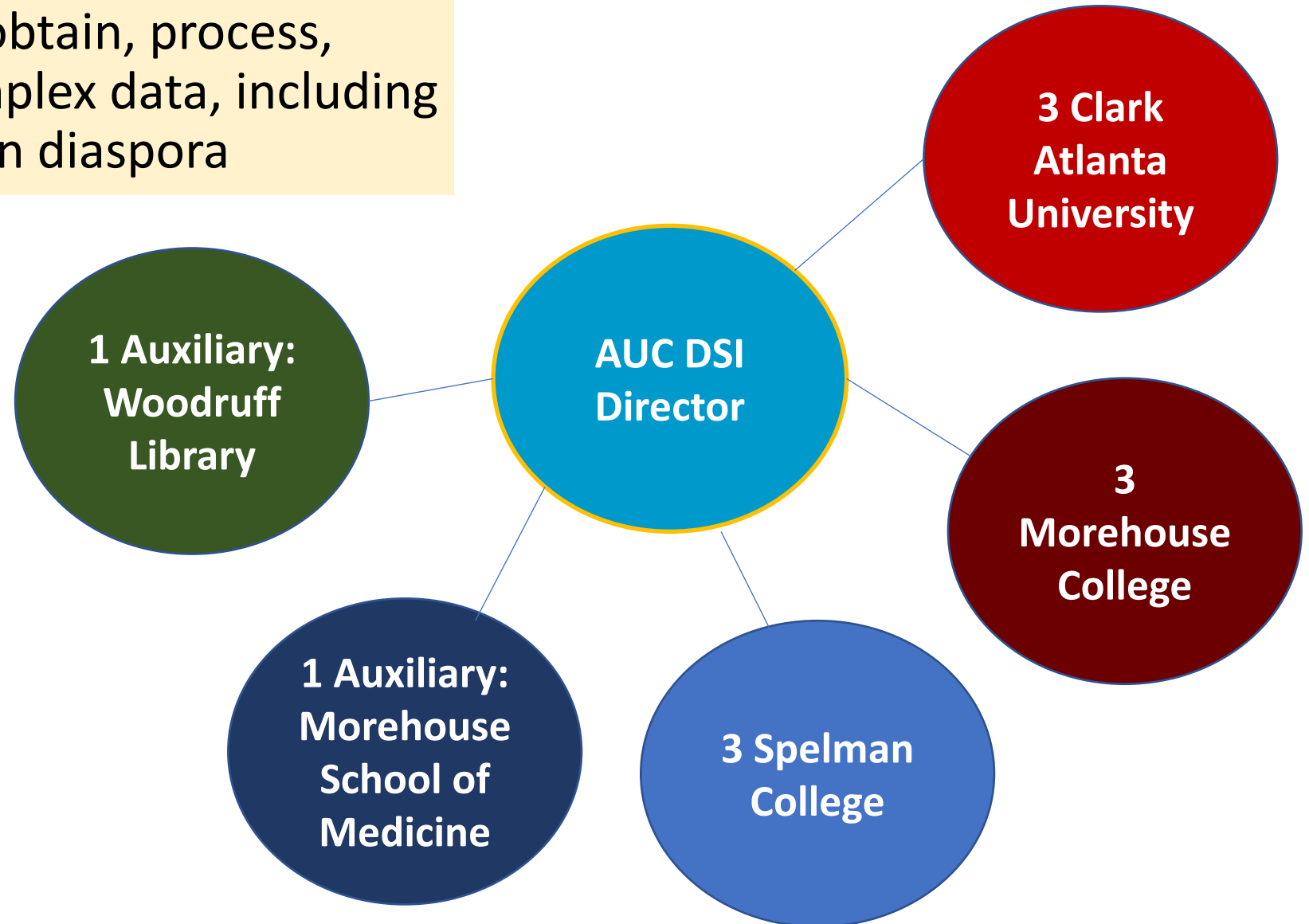
Data Science and Analytics Minor

Prepare our students to obtain, process, analyze, and present complex data, including data related to the African diaspora

AUC DSA

Framework:

- 1.Math/Stat
- 2.Programming
- 3.Modeling
- 4.Data Curation
- 5.Ethics
- 6.Communication



Workshop on Using Data to Drive Reform Through Prosecutorial Performance

- ~45 participants from 11 HBCUs developed planning documents to develop prosecutorial performance solutions, with a focus on African Americans
 - Held in-person on June 9, 2022
 - In collaboration with the Prosecutorial Performance Indicators Team
- *Upcoming: Data-driven Health Equity Workshop, Summer 2023*
 - Co-led by AIM-AHEAD Southeastern Hub at Morehouse School of Medicine





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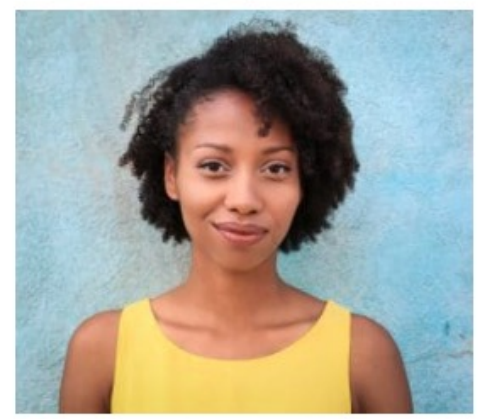
Empowering Our AUC Students

The AUC Data Science Initiative designs and implements programming to support student development, skill enhancement, as well as funding and industry opportunities.

Travel and Training

The Travel and Training Support Program aims to increase the participation and engagement of AUC students, faculty, and staff in data science. Support for virtual conferences may be included. Click below for more information.

PFx: PreFreshman Experience



The **Pre-Freshman Experience (PFx)**: "Data for Social Good" – summer program offers incoming AUC students a chance to engage in data science before the start of their first year. Throughout the one-week program, students will explore applications of data science and learn about different career opportunities.



NEW DATA SCIENCE COURSES SPRING 2022

Sign up for three exciting new AUC data science courses launching in the Spring of 2022!

- DATA & THE AFRICAN DIASPORA
- DISCOVER ARTIFICIAL INTELLIGENCE - AI4ALL
- DATA ANALYTICS W/NIELSENIQ

To learn more visit:
<https://datascience.aucenter.edu/newcourses>



LEARN. GROW. NETWORK.

AUC DATA SCIENCE CLUB

Join TODAY!
JUMP ON THE DATA WAVE!

NEXT MEETING:
Coming Soon!

Data science is the next big wave! From **Bitcoin**, to **Sports Analytics**, to **Crime Forecasting** – Black data scientists are leading the future! Join us and gain career opportunities, meet industry professionals & students, enter exclusive competitions and to simply **HAVE FUN!**



2022 PFx: Keeping Communities Safe Through Data

REU Site: The Application of Data Science to Chemistry

- PI: Dr. Seyhan Salman, Assistant Professor of Chemistry, Clark Atlanta University
 - All STEM majors interested in the interface between materials chemistry and data science are encouraged to apply to participate in a 9-week undergraduate research.
- Stipend: \$5,400 over 9 weeks with a travel allowance and housing at Clark Atlanta
- Date: June 5 – August 4, 2023
- Questions? Contact Dr. Seyhan Salman at ssalman@cau.edu
 - <https://datascience.aucenter.edu/reu>



Our Symposiums



VIRTUAL STUDENT DATA SCIENCE SYMPOSIUM

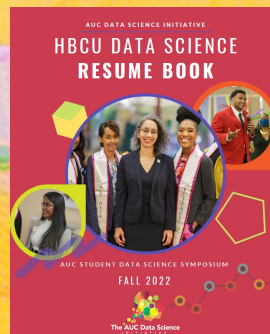
Big Data. Bigger Results.

Over 500 Registrants

25 Exhibitors

30+ Student Speakers

12 Sponsors



DATA FOR THE STUDENTS. BY THE STUDENTS.

W.E.B. DU BOIS DATA SCIENCE SYMPOSIUM

UNLEASHING THE FUTURE OF DATA SCIENCE

Kickoff Keynote



DANIEL DAWES, J.D. (Morehouse School of Medicine)
SPEAKS ON DEVELOPING THE NATION'S FIRST
HEALTH EQUITY TRACKER

Afternoon Keynote

"BLACK WALL STREET" RECONSTRUCTION
LEARN HOW THE NEW YORK TIMES TEAM RECONSTRUCTED THE
TULSA RACE MASSACRE NEIGHBORHOOD USING DATA SCIENCE



**FEB
25TH
2022**



FREE Registration | Virtual Event

REGISTER NOW



Tinyurl.com/DuBoisData22

Seminar Series

AUC Data Science Seminar Series

Artificial Intelligence & the Artist's Hand



SEPT 9, 2022



12PM-1PM



Zoom Registration:
[Tinyurl.com/DS3Sept3](https://tinyurl.com/DS3Sept3)



DR. NETTRICE GASKINS

Artist • Author • Educator • Researcher.
Assistant Director, STEAM Learning Lab

Sponsored By:

AUC Data Science Seminar Series

Growing Data Warriors to Reclaim Tribal Data Sovereignty



OCT 14, 2022



12PM-1PM EST



Zoom Registration:
[Tinyurl.com/DS3Oct14](https://tinyurl.com/DS3Oct14)



Speaker

DR. DESI RODRIGUEZ-LONEBEAR

Demographer of
Data Warriors Lab

THE AUC DATA SCIENCE INITIATIVE presents: **Data Block Party!**

**MUSIC - DANCING - GAMES
REALLY AMAZING FOOD**

**AUGUST 24, 2022
5 PM UNTIL 7 PM
AUC LIBRARY**

**ALL STUDENTS, FACULTY,
AND STAFF WELCOME!**



THE ATLANTA UNIVERSITY CENTER DATA SCIENCE INITIATIVE, HINES FAMILY FOUNDATION,
MERCER-SET LAB, GEORGIA TECH AND GEORGIA SPACE GRANT CONSORTIUM

PROUDLY PRESENTS:

SPACE DAY ATLANTA IN THE AUC

Open to ALL curious about space!



Expanding Data Science across HBCUs



Data Science @ HBCUs



- **Bowie State University**

- Data Science & Analytics Initiative infuses DSA into undergraduate courses, undergraduate research opportunities, and faculty learning communities

- **Florida A&M University**

- Leads the HBCU DS Consortium, a community of data science across 6 HBCUs: Alabama A&M University, Bowie State University, Morehouse College, Johnson C. Smith University, and Norfolk State University

- **Fisk University**

- First dedicated undergraduate data science program at an HBCU as well as in the state of Tennessee

- **Howard University**

- Data Science and Cybersecurity Center & the Center for Applied Data Science and Analytics

- **North Carolina A&T University**

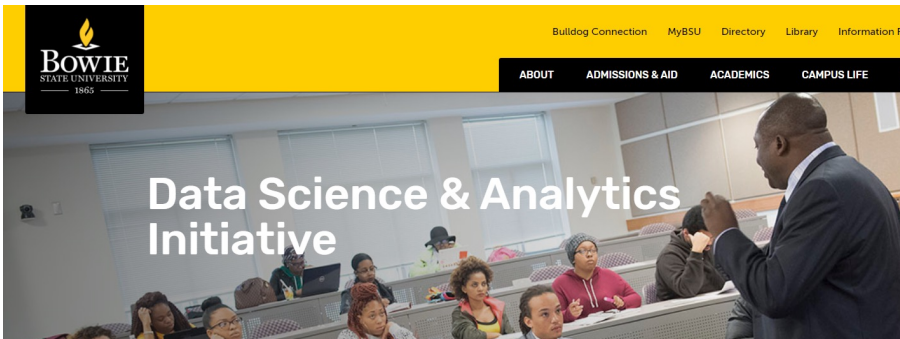
- Computational Data Science and Engineering PhD and MS programs

- **North Carolina Central University**

- Launched major in Information Technology with concentration in data analytics

- **Winston-Salem State University**

- Center for Applied Data Science



<http://www.famunews.com/2020/12/famu-receives-funding-from-nsf-south-big-data-hub-to-develop-a-national-hbcu-data-science-consortium/>

<http://cyber.howard.edu/node/8> <https://www.fisk.edu/academics/nsmb/departments/mathematics-and-computer-science/data-science/>

<https://www.ncat.edu/academics/graduate-programs/coe/computational-science-and-engineering.php> <https://www.nccu.edu/news/nccu-launches-new-academic-programs-information-technology-and-sports-medicine>

“Enhancing Data Science Education by Leveraging Data Sets from the African Diaspora.” May 2022

DATA AND THE AFRICAN DIASPORA NSF WORKSHOP



**The AUC Data Science
INITIATIVE**



**CLARK ATLANTA
UNIVERSITY**



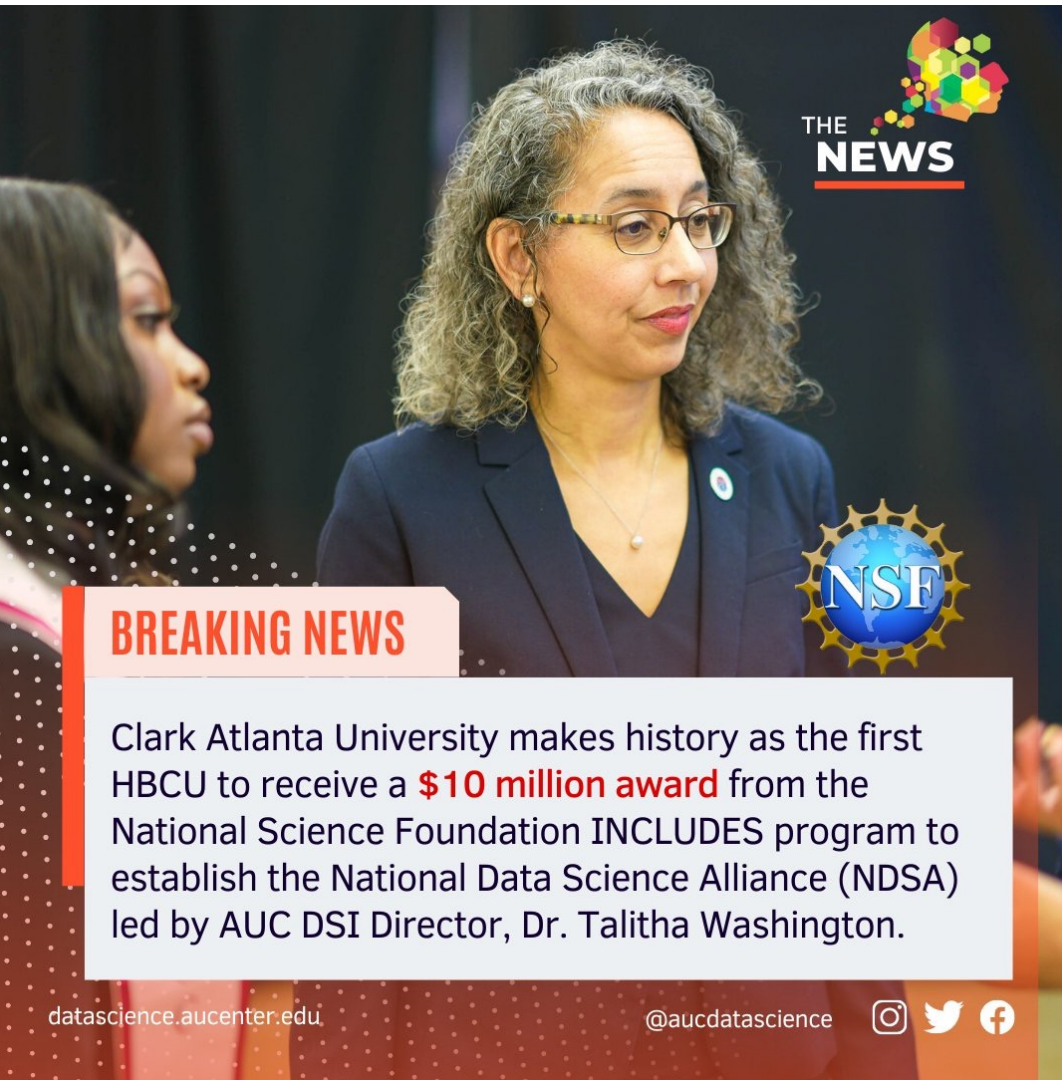
This material is based upon work supported by the National Science Foundation under Grant No. [2136382](#). Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.



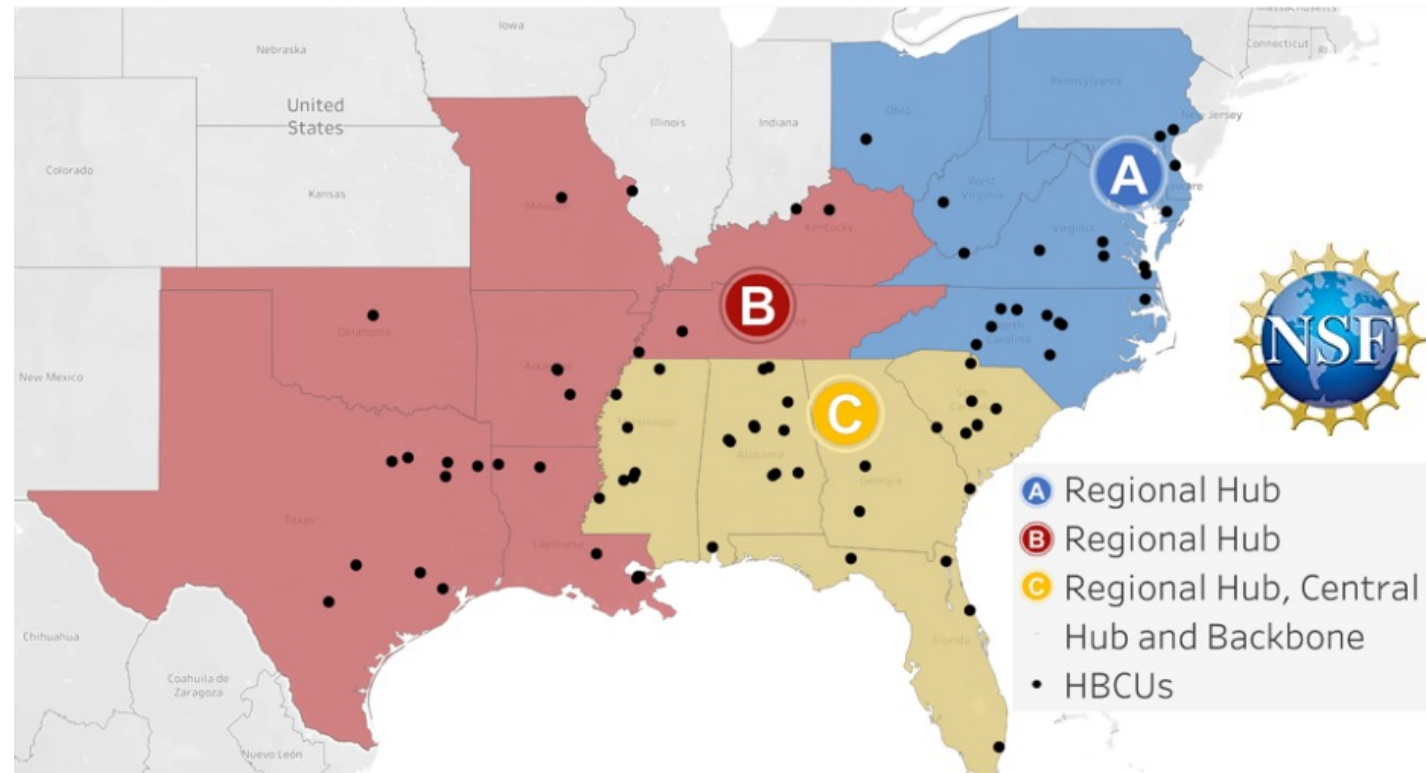
National Data Science Alliance (NDSA)

Talitha Washington, Clark Atlanta University [2217346]

LaTanya Brown-Robertson, Howard University; Moses Garuba, Howard University; Sajid Hussain, Fisk University; Eric Mintz, Clark Atlanta University



- National network of Historically Black Colleges and Universities (HBCUs) with industry, government, and academic collaboration to transform data science discoveries into tangible societal benefits that advance equity for all



National Data Science Alliance (NDSA)

- Build a national network of HBCUs to advocate for the building of institutional data science capacity

Vision:

- Increase the number of Blacks who earn data science credentials by 20,000
- Create equitable data science techniques and models

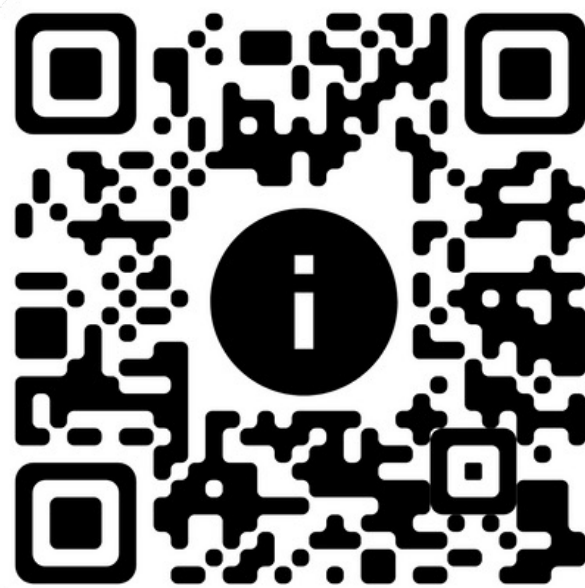


W.E.B. Du Bois
Data Innovator





www.DataScience.aucenter.edu



www.TalithaWashington.com