

Let's Get Started

Dr. Lawanda Cummings

- Director of STEM Education Research and Workforce Development for The Virgin Islands Established Program to Stimulate Competitive Research (VI-EPSCoR) program
- Co-Director of the Florida-Caribbean Louis Stokes Regional Center for Excellence (FL-C LSRCE)
- An HBCU faculty member for 10 years, teaching research methodology and statistics
- Trained as a Community Organizational Psychologist





Living through the 4 pandemics

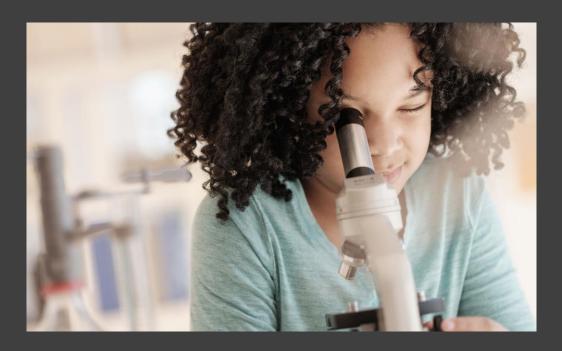
 A "re-set" is required to authentically engage in pedagogy that is culturally relevant and will support and promote students' culture and consider students' circumstances given these crises.

Ladson-Billings, 2020



National Agenda for STEM Workforce Development

- Need 1 Million more STEM
 Baccalaureates in the next 10 years
 (PCAST, 2012)
- STEM has immense growth
 - Reduce racial and gender gaps in income & prestigious employment opportunities
 - 16%-62% growth in various STEM industries (comparable to 14% in Non-STEM areas)



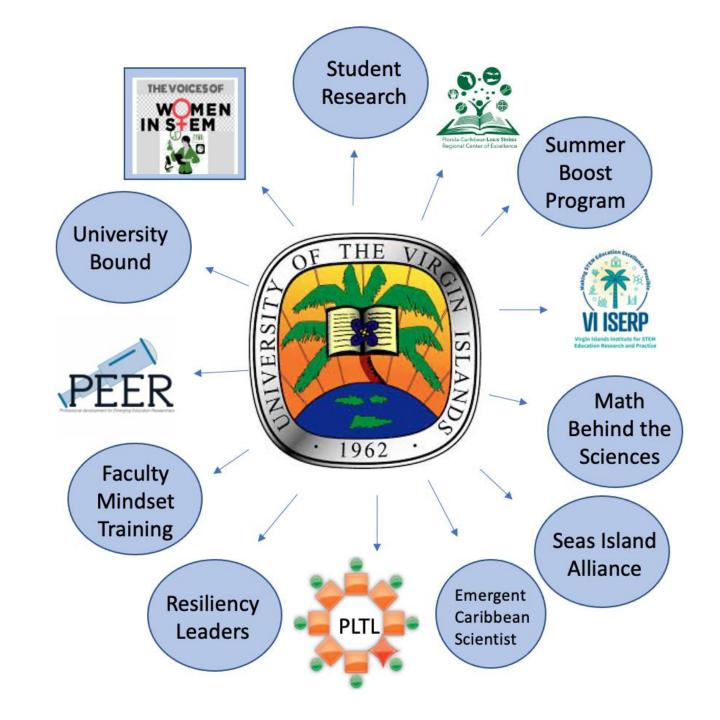


HBCUs and STEM Success

HBCUs are SUCCESSFULLY preparing students for the STEM Workforce of Tomorrow

- 25% of African American graduates with STEM degrees come from HBCUs.
- 46% of Black women in STEM disciplines graduated from HBCUs between 1995 and 2004
- 30% of STEM doctorates received their undergraduate degrees from HBCUs

UVI Constellation of Supports



Integrated system

Commitments

PRE-COLLEGE EXPERIENCE

Skills and Abilities

Prior Schooling

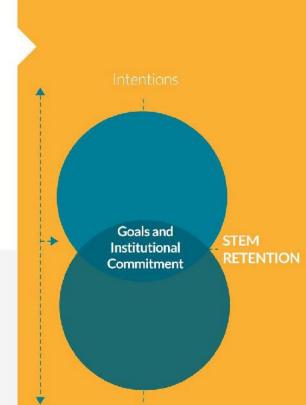
UVI GROWTH MODEL



SOCIAL SYSTEM







UVI STEM Workforce Approaches



PRE-COLLEGE COMMUNITY

COLLEGE HIGHER EDUCATION **EARLY CAREER SUPPORT**



PRE-COLLEGE COMMUNITY

- 1. Mr. Jarvon Stout, Community Outreach Specialist and Informal Learning Lead, VI-EPSCoR
- **2. Ms. Rosalia Rohan**, Director of University Bound
- 3. Dr. Nadia Monrose Mills, Assistant Professor of Mathematics/Component Lead for Teacher Professional Development (VI-EPSCoR)

Moderator: Dr. Michelle Peterson, Interim Dean of the School of Math and Sciences

- 1. Dr. Michele Guannel, Assistant Professor of Biology
- 2. Dr. Molly Perry, Assistant Professor of History and Geography
- 3. Dr. Nadia Monrose Mills, Assistant Professor of Mathematics/Component Lead for Teacher Professional Development (VI-EPSCoR)
- **4. Ms. Aimee Sanchez**, Emerging Caribbean Scientists Programs Grants Manager

Moderator: Dr. Karen Brown, Dean of the College of Education



COLLEGE HIGHER EDUCATION



EARLY CAREER SUPPORT

- **1. Dr. Karyl Askew**, Senior Research Scientist for CASL
- 2. Dr. Verleen McSween, Assistant Professor of Biology/Component Lead for Mentoring and Research Infrastructure (VI-EPSCoR)
- **3. Dr. Lawanda Cummings**, Director of Florida-Caribbean Louis Stoke Regional Center of Excellence

Moderated by Dr. Lawanda Cummings, Director of STEM Education Research (VI-EPSCoR)/ Director of Florida-Caribbean Louis Stoke Regional Center of Excellence



Excellence by Design