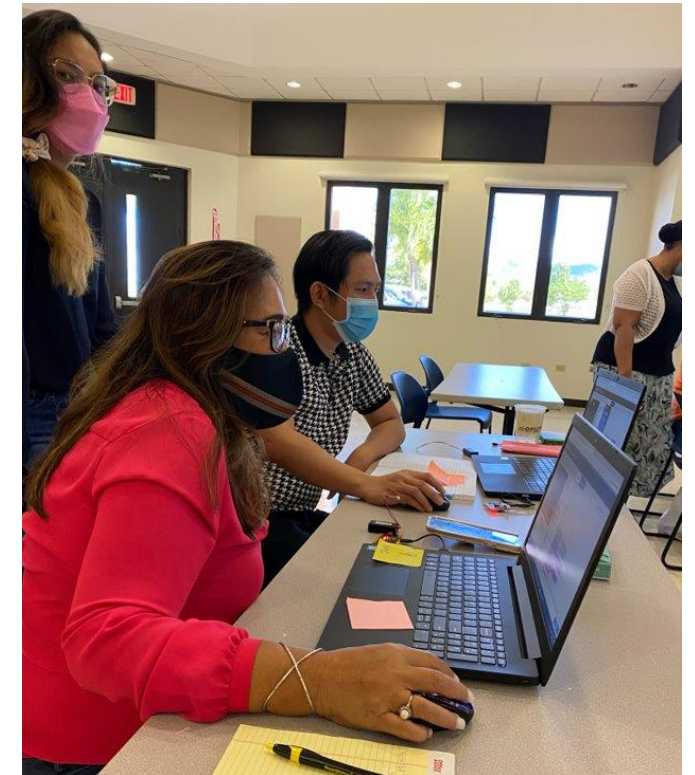


Education & Workforce Development



Virgin Islands Institute for STEM
Education Research and Practice



"Making STEM Education excellence possible for every student"

VI-ISERP seeks to reduce barriers to URM STEM inclusion at the pre-college, undergraduate, and faculty early career stages.

✓ Pre-college

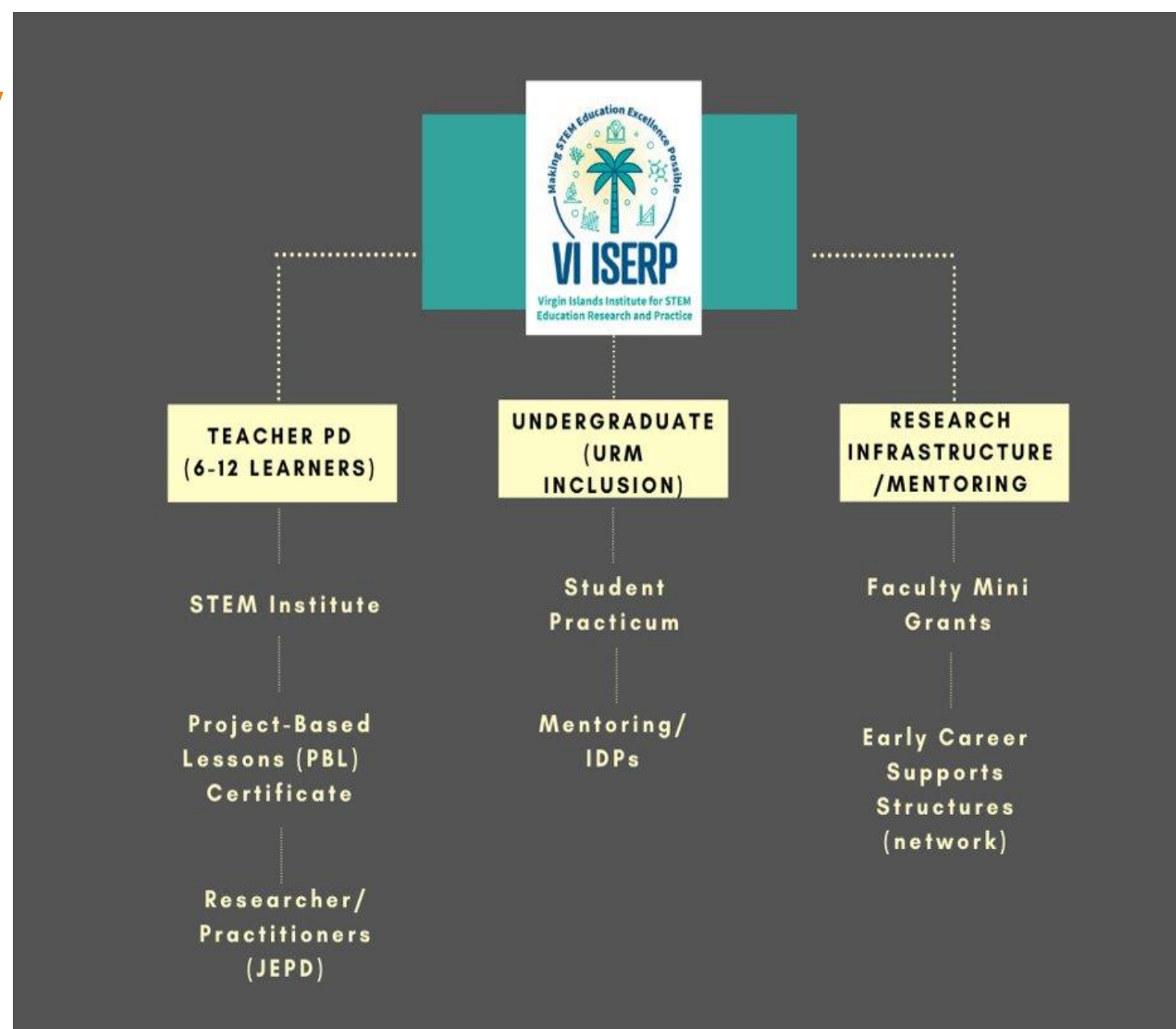
- ✓ Teacher Professional Development

✓ Undergraduate

- ✓ STEM Education Research
 - ✓ Experimental Learning
- ✓ Student Practicum
- ✓ Mentoring

✓ Early Career STEM faculty

- ✓ Faculty Mini Grants
- ✓ Early Career Support Structure



Meet The Team

St. Croix



Dr. Joseph Squillace
Assistant Professor of Mathematics
UVI College of Science and Mathematics

Co-Director STEM Institute, St. Croix



Cassandra King
Master Teacher

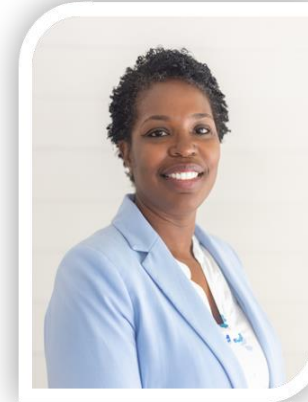


Manal Abed
Undergraduate RA



Julene Chapman-Dorsett
Administrative Support

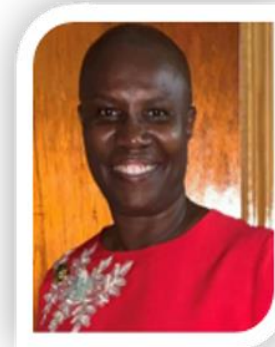
St. Thomas/St. John



Dr. Nadia Monroe Mills
Associate Professor of Mathematics
UVI College of Science and Mathematics

Co-Director STEM Institute, St. Thomas

Principal Investigator
NSF BCSE: Improving Peer-Led Team Learning and
Peer-Leader Training to Increase Undergraduate
Student Achievement in Mathematics



Michealrose Ravalier
Master Teacher



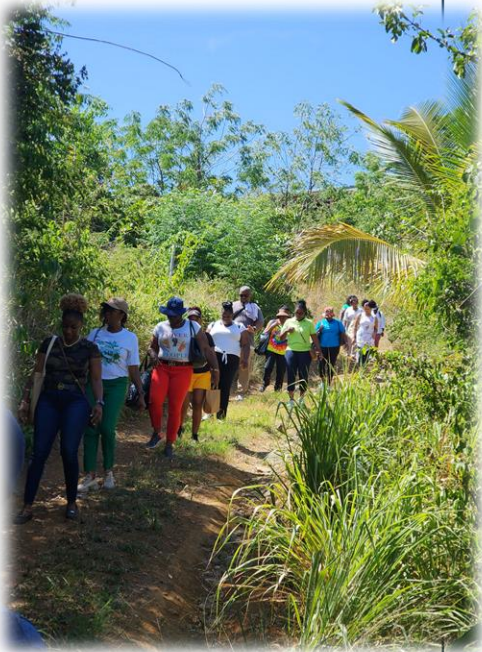
Celestial Dazle
Undergraduate RA

Sharing Our Center's Expertise & Sustainability



Teacher & RA in Research	• Qualitative Analysis: De-Identified Teacher Interviews, teacher artifacts • Quantitative Analysis: Pre/post surveys
Scholarly Work	• Book Chapters • Caribbean and African Studies in Education • Conference Presentations • National Association of African American Studies (NAAAS) 2022 • Caribbean Studies Association 2023
Partnerships/ Collaborations	• Universities • Major Corporations • Local Government Agencies • UVI Programs & Colleges

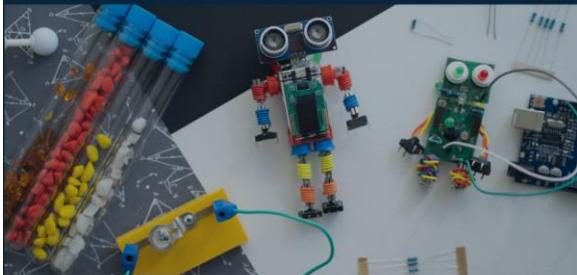
Project Goals And Objectives



Goal	To integrate resilience research themes into teacher professional development to improve K-12 student preparation
Objective 1:	To integrate resilience research themes into teacher professional development to improve K-12 student preparation.
Objective 2:	To build long-lasting STEM community partnerships for increase sustainability of the VI-ISERP center.

Results, Outcomes, and Accomplishments: Summer Teacher Workshops 2021-2023

THE RESET:
STEM LEARNING ACCELERATION,
TECHNOLOGY INTEGRATION, AND WELLNESS



**2022 STEM INSTITUTE
SUMMER WORKSHOPS**

Virtual Sessions: May 31 - June 3
In-Person Sessions: June 6 - June 10



VIRGIN ISLANDS epscor
ST. CROIX DISTRICT

**DATA DISCOVERIES IN
STEM EDUCATION**



**VI-ISERP 2023 STEM INSTITUTE
SUMMER WORKSHOPS**

STIPEND FOR TEACHERS THAT QUALIFY

Virtual Sessions: June 12 - June 16
In-Person Sessions: June 19 - June 23

REGISTER NOW



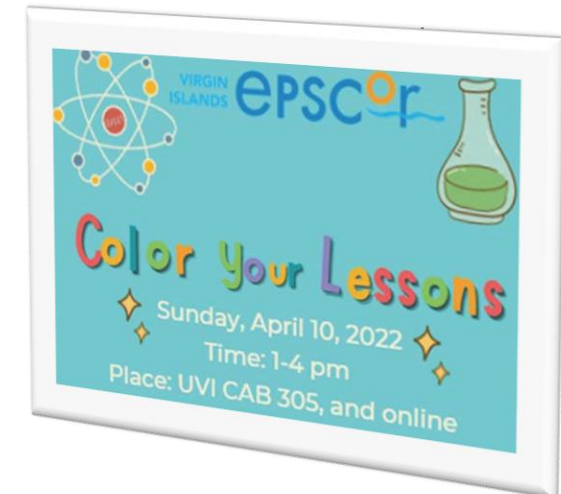
- ✓ Virtual Summer Workshops:
 - 80 Teachers Summer 2021
 - 75 Teachers Summer 2022
 - 44 Teachers Summer 2023
- ✓ In-Person Workshops:
 - 54 Teachers Summer 2022
 - 48 Teachers Summer 2023
- ✓ New Partnerships
 - Office of the Insular Superintendent STT/STJ
 - InSTEP: Online Statistics & Data Science Course
 - NC State University
 - Department of Agriculture
 - Cooperative Extension Services
- ✓ Continued Partnerships
 - Knowles Teacher Foundation
 - Mentor Teachers
 - UVI Faculty
 - R2R Researchers

Results, Outcomes, and Accomplishments:

STEM Content Knowledge



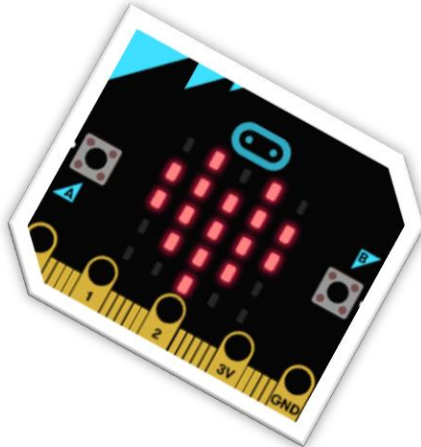
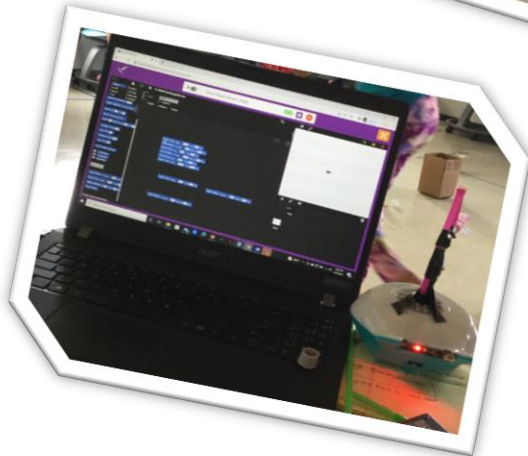
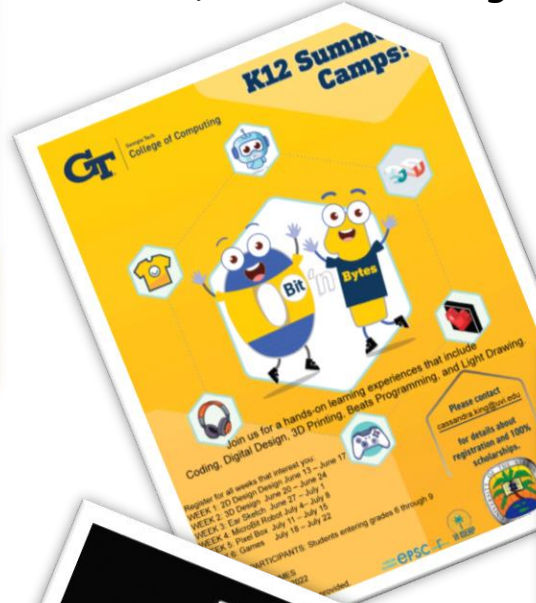
- ✓ PBL Certificate Program:
 - 5 teachers Cohort 1 Fall 2021
 - 4 teachers Cohort 2 Fall 2022
 - 2nd recruitment in process for Cohort 3 Fall 2023
- ✓ Virtual Training:
 - Master & mentor teachers
- ✓ In-Person Training (Weekends)
- ✓ Continued Partnerships
 - UVI Teaching Faculty
 - College of Science & Math



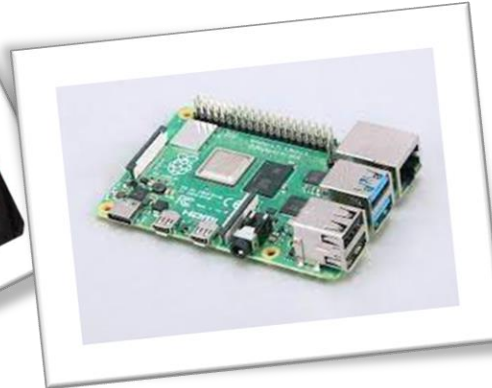
Results, Outcomes & Accomplishments: Partnerships in Computer Science



Yolanda Payne
Founder, Tech Knowledge for Teachers



Technology Loan Program



- ✓ Robot Kits
- ✓ Finch Robots
- ✓ Raspberry Pi
- ✓ Laptops
- ✓ iPad Minis
- ✓ Overhead Projectors
- ✓ Swivl
- ✓ MiFi's
- ✓ TI-84 Plus Calculators

New 2023

Results, Outcomes & Accomplishments: Mental & Emotional Wellness Training

- ✓ Teacher Talk Fridays
- ✓ Mindfulness Training
- ✓ Social Emotional Training

VI-ISERP PRESENTS

TEACHER TALK FRIDAY
FEATURING
DR. JANIS MODESTE
SEL EXPERT

FACILITATING DISCUSSION ON THE
IMPLEMENTATION OF SEL STRATEGIES IN
YOUR CLASSROOMS!

NOVEMBER 18TH 2022
4pm-5pm
VIA ZOOM



Scan QR CODE To Register

COME WITH YOUR
QUESTIONS/CONCERNS.

VI-ISERP

Teacher Talk Friday

TEACHER SELF CARE
FRIDAY
MARCH 10TH, 2023
4:00 pm -5:00 pm
on Zoom

Developing a Self-Care Plan for
Your Wellbeing.

Workplace or professional
Physical
Psychological
Emotional
Spiritual
Relationships



VI-ISERP

VIRGIN ISLANDS **epscor**

TEACHER TALK FRIDAYS

FRIDAY,
SEPTEMBER 30, 2022
4 PM TO 5 PM

VIA ZOOM
SCAN QR CODE TO JOIN



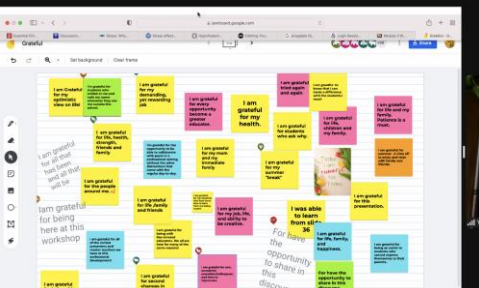
VI-ISERP

VIRGIN ISLANDS **epscor**



What is Mindfulness

There is more than one way to practice mindfulness, but the goal of any mindfulness technique is to achieve a state of alert, focused relaxation by deliberately paying attention to thoughts and sensations without judgment. This allows the mind to refocus on the present moment.



VI-ISERP



VI-ISERP

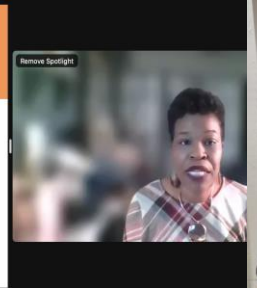
MASTERS EDUCATIONAL FOUNDATION PRESENTS

Trauma Informed Teaching

→ Educational Practices To Transform your teaching and Learning



Vibes



VI-ISERP



VI-ISERP

Teacher Talk Fridays

LET'S PUT THE FUN BACK IN LEARNING!

Friday,
October
21st, 2022

4pm-5pm
VIA ZOOM



Scan QR CODE To Register

VI-ISERP



Past Teacher Projects

Teacher Projects

- Lionfish Population Control
- Robotics
- Water Quality
- Water Runoff
- Robotics
- Green Home Design
- Body Systems
- Renewable Energy
- Marine Debris
- Coral Reef Restoration
- School Gardens



Teachers as Researchers



Over 23 Teachers presented at local and national conferences

- International STEM Education Association Conference
- National Science Teacher Association
- ASLO Aquatic Science Meeting
- UVI Research Day

Broader Impacts, Intellectual Merit, & Sustainability

Broader Impacts	Facilitated PD activities 2020-2023 with about 110 teachers in attendance, impacting about 4000 K-12 student
Intellectual Merit	- Data Collection during Summer Workshops 2021-2023 - Preliminary Data Analysis on Technological Pedagogical Content Knowledge - Continued Data Analysis for Years 4 & 5
Sustainability	- Developed Long-lasting and mutually beneficial partnerships - Developed master & mentor teachers that facilitate PD training



Calendar of Events

November 1 December 18 Monthly in 2024	Fostering Confident Math Learners Training for HS Math Teachers (STT Only)
November 3, 2023	Teacher Talk Fridays (Online) Final TTG session with Dr. Paul-Constantine
December 2, 2023	Computer Science Teachers Association (CSTA) Data Science using Micro:bit Dr. Marc Boumedine
December 9, 2023 February 2-4, 2024	Tech Knowledge for Teachers Yolanda Payne United States Patent and Trademark Office
January 23, 2024	STEM Online Training Dr. Joseph Squillace, Ms. Cassandra King
Ongoing	PBL Certificate Program





Thank you!

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PHONE: 340-693-1331

Dr. Joseph Squillace

EMAIL: joseph.squillace@uvi.edu

PHONE: 340-692-4157

