



DEEP
LEARNING
INSTITUTE

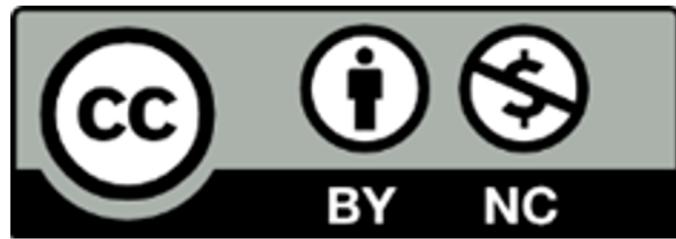
Georgia
Tech



PRAIRIE VIEW
A&M UNIVERSITY

DLI Accelerated Data Science Teaching Kit

Lecture 1.11 - Hidden Figures in Data Science from Underrepresented Groups



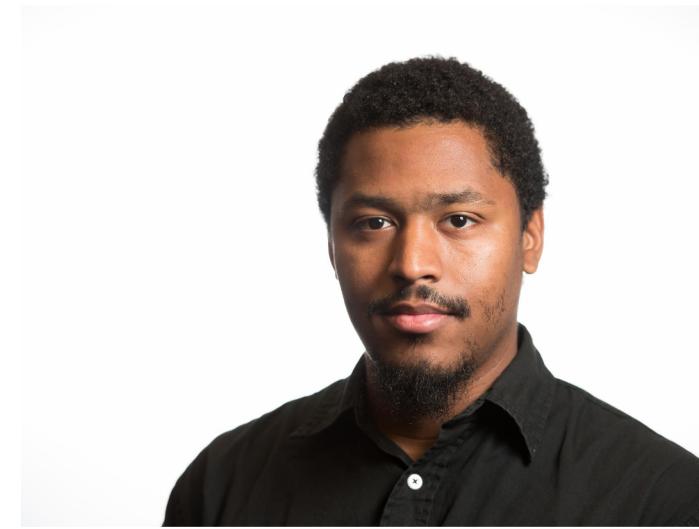
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Data Scientists and Labs from Underrepresented Groups

Data scientists from underrepresented groups made significant contributions to data science and AI research in different areas

Minority-serving centers/labs working on important data science and AI research

Pacific Northwest National Laboratory



Dr. Brett Jefferson

Data Scientist

Pacific Northwest National Laboratory



Oak Ridge Institute



Dr. Byron Gaskin

Emerging Leaders
in Data Science Fellow

National Institute of Allergy and
Infectious Diseases
Oak Ridge Institute

- Creative technologist with Bioengineering PhD, extensive managerial training, and over 10 years of data science experience building high-performance computing systems
- Active developer of data science, machine learning, and artificial intelligence technologies with deep expertise in real-world application and theoretical underpinnings
- Passion for presenting complex systems, methodologies, analyses, and insights in a simple and concise manner to stakeholders, business partners, and senior leaders
- Recognized thought leader giving regular talks to regional, national, and international audiences on implementations and implications of artificial intelligence

Capital One



Dr. Jamika D. Burge

Head of Artificial Intelligence Design
Learning & Research Insights,
Advisory Board in Computer Science
Department, Virginia Technical
Institute;

Advisory Board for Inclusive
Computing, Northeastern University

- Leads learning and research for conversational AI, developing insights that inform our understanding of human experiences, for our customers and our design, product, and technology partners.
- Part of the Artificial Intelligence (AI) Design team that supports the conversational (and intelligent) agent, Eno, at Capital One.
- Co-founder, blackcomputeHER. blackcomputeHER.org (pronounced 'black computer') is transforming computing+tech education & workforce development for black women and girls.

Georgia Institute of Technology



Dr. Ayanna MacCalla Howard

Professor; Chair for the School of
Interactive Computing;

Linda J. and Mark C. Smith Chair
Professor Technical Interest Groups:
Systems and Controls

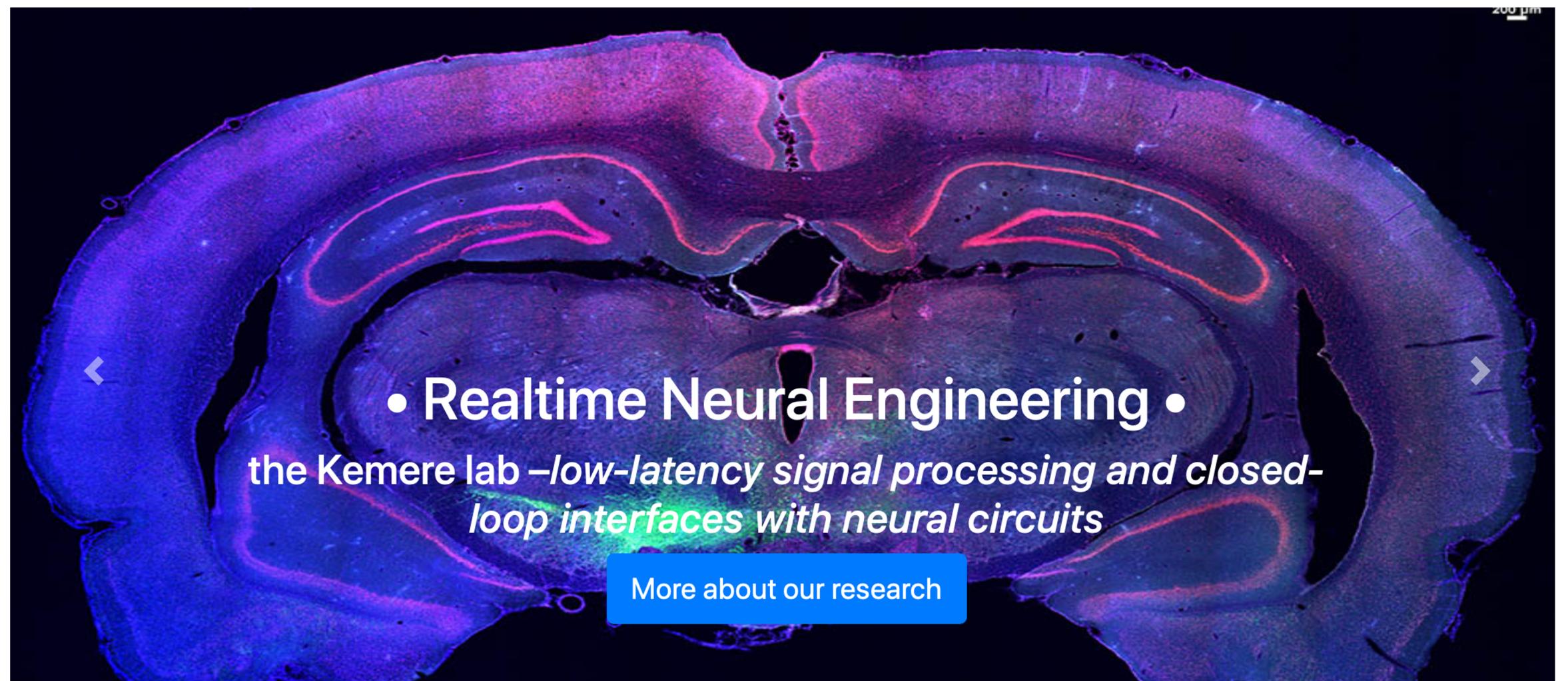
Georgia Institute of Technology



Rice University



Dr. Caleb Kemere
Assistant Professor
Electrical and Computer Engineering,
Rice University



University of the West Indies



Dr. Patrick Hosein

Professor

Department of Computing and
Information Technology

The University of the West Indies

- CEO of the Trinidad and Tobago Network Information Centre (TTNIC)
- Active areas
 - Open Data and set up and manages Open Data repositories (data.tt and maps.tt) for Trinidad & Tobago
 - Smart Grids and one on the use of ICT for Agriculture
- Senior Member of the Institute of Electrical and Electronics Engineers and has been honoured by the NIHERST as an Icon in Science.
- A member of the US honor societies

AnitaB.org



Brenda Darden Wilkerson
President and CEO of AnitaB.org

- An advocate for access, opportunity, and social justice for underrepresented communities in technology
- Currently she serves as the President and CEO of AnitaB.org, an organization that connects, inspires, and strives for greater equality for women technologists in business, academia, and government.
- She founded the original Computer Science for All program, building computer science classes into the curriculum for every student in the Chicago Public Schools, and serving as the inspiration for the Obama administration's national CS For All initiatives.



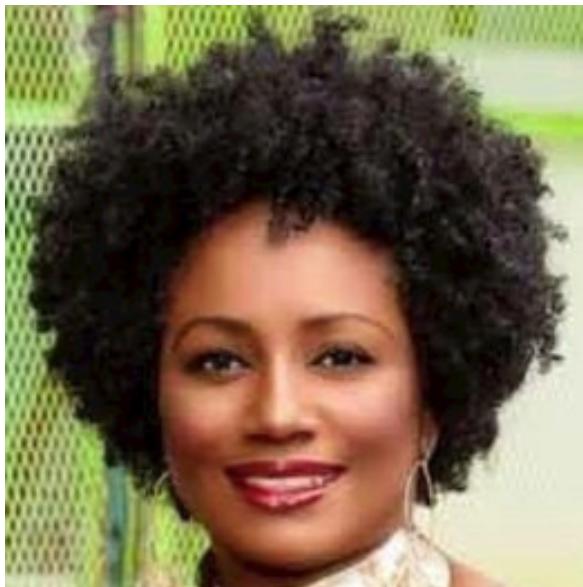
Dr. Tyrone Grandison

Board Chairman of The Data-Driven
institute,

Civic Tech Program Manager for the
US Census Bureau,

Vice President of Data for U.Group





Renée Cummings

Criminologist, Criminal psychologist, AI ethicist and AI strategist

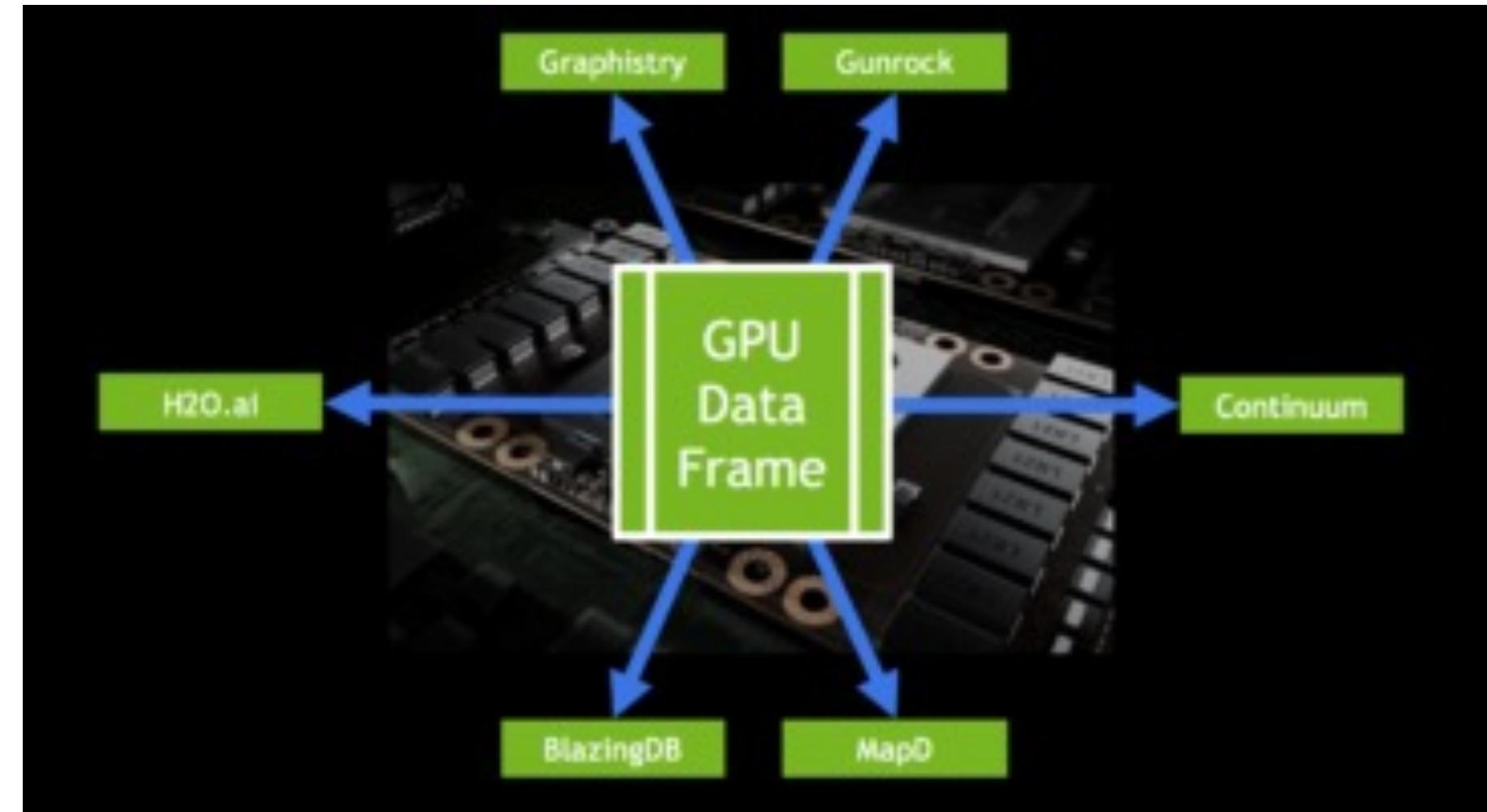
Founder and CEO of Urban AI LLC.

- A New York-based criminologist who specializes in Artificial Intelligence (AI);
 - ethical AI, bias in AI, diversity and inclusion in AI, algorithmic authenticity and accountability, data integrity and equity, AI for social good and social justice in AI policy and governance.
- She's committed to diverse and inclusive AI strategy development;
 - using AI to empower and transform communities and cultures;
 - securing diverse and inclusive participation in the 4IR, helping companies navigate the AI landscape and developing future AI leaders.
- A multicultural cross-connector of multiple fields and an innovative collaborator, her passion is forming connections and unifying people and technologies; enhancing quality of life and economic prosperity.
- A sought after thought-leader, inspirational motivational speaker and mentor, Ms. Cummings is also a Columbia University community scholar.

NVIDIA



Joshua Patterson
Senior Director
Engineering RAPIDS
NVIDIA



NVIDIA



Joshua Patterson
Senior Director
Engineering RAPIDS
NVIDIA



Prairie View A&M University (PVAMU)

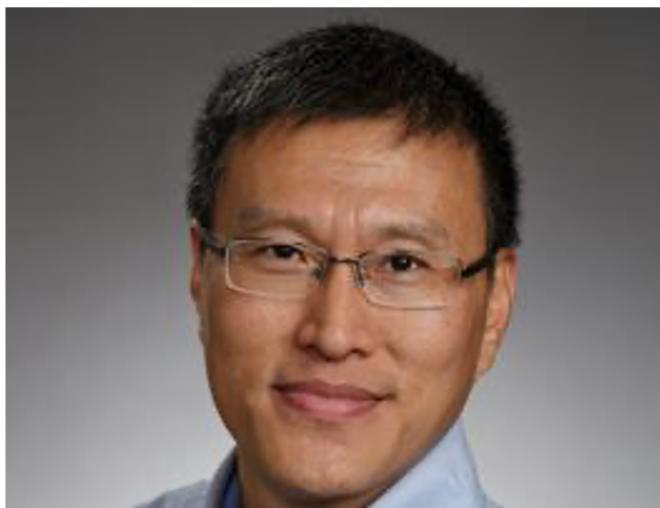
Center of excellence in Research and Education for big military Data InTelligence (CREDIT)



Center for Computational Systems Biology (CCSB)



CREDIT at PVAMU



Dr. Lijun Qian

PI and Director

Regents Professor

AT&T Endowed Professor of Electrical
and Computer Engineering

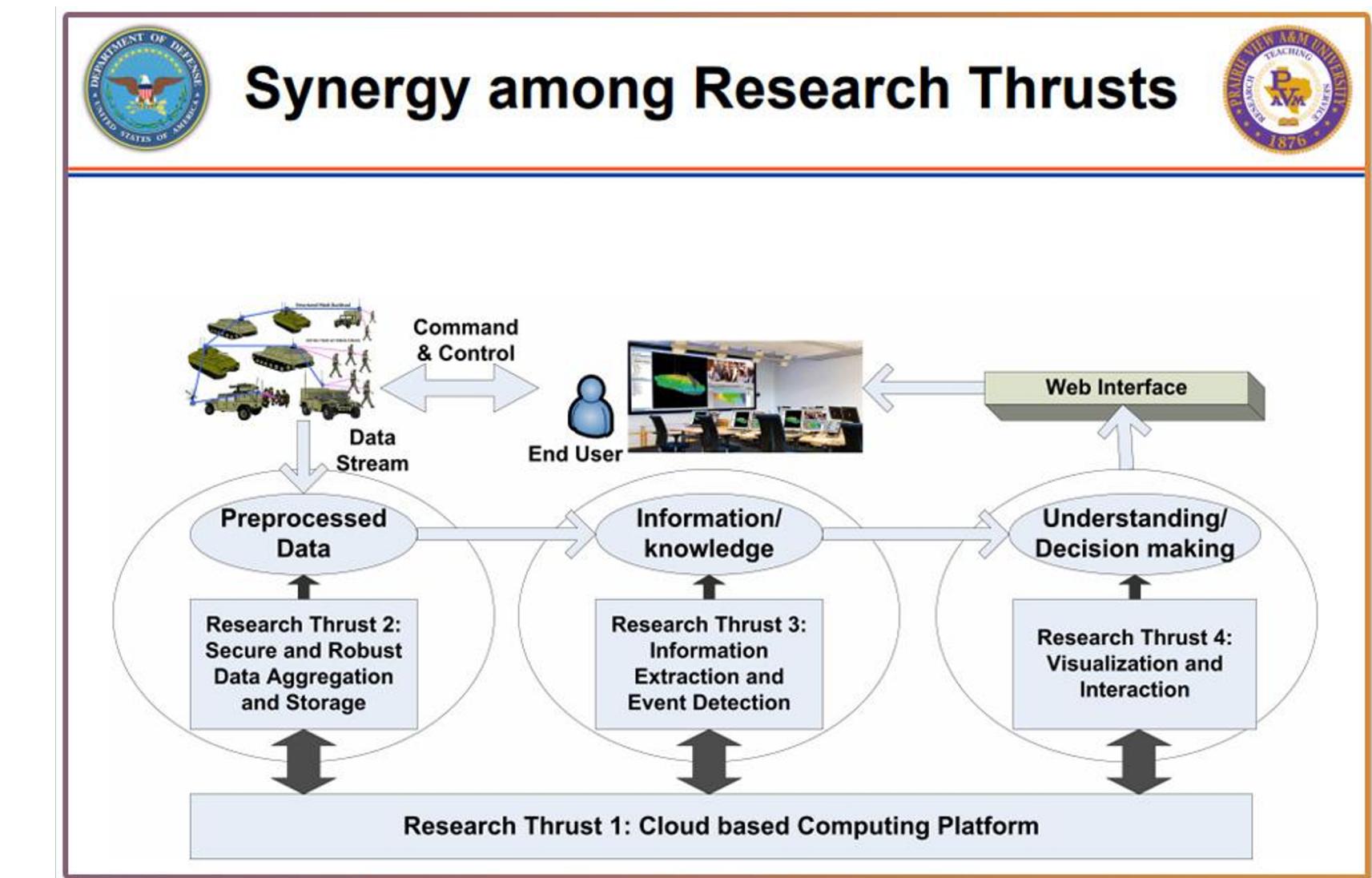
Roy G. Perry College of Engineering
Prairie View A&M University

The screenshot shows the homepage of the CREDIT Center website. At the top, there is a dark header bar with contact information: an envelope icon followed by "LiQian@pvamu.edu", a phone icon followed by "+1(936)261-9908". Below the header is a navigation menu with links: Home, People, Management, Research (with a dropdown arrow), Publications, Resources, Education, MCDBA (with a dropdown arrow), and News. To the left of the main content area is a circular logo for "CREDIT CENTER" featuring a globe and the text "CREDIT CENTER" and "UNIVERSITY OF TEXAS". The main content area features a large image of a modern glass building with a curved facade. Overlaid on the image is the text "CREDIT CENTER" in large white letters, followed by "Center of excellence in Research and Education for big military Data InTelligence" in smaller white text. At the bottom right of the image is a purple button labeled "ABOUT US". Navigation arrows are visible on the left and right sides of the image.

CREDIT at PVAMU

Center of excellence in Research and Education for big military Data InTelligence (CREDIT)

- **Big Data Analytics**
- **Artificial Intelligence**
- **Various Applications**



CREDIT at PVAMU

The Workshop of Mission-Critical Big Data Analytics (MCBDA, 2016 ~ 2019)

- Covered state-of-the-art research and development in big data analytics, especially for mission-critical applications.



CCSB at PVAMU



Dr. Seungchan Kim

Chief Scientist and Executive of Center for Computational Systems Biology

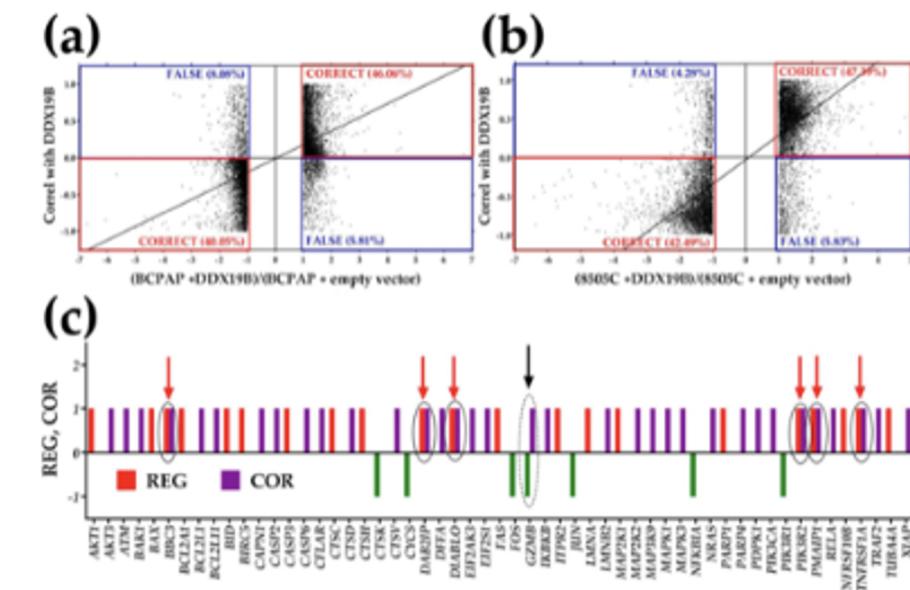
Department of Electrical and Computer Engineering

Roy G. Perry College of Engineering Prairie View A&M University



Welcome to CCSB@PVAMU

The Center for Computational Systems Biology at the Prairie View A&M University (CCSB@PVAMU) was established in 2017, by a funding from the Texas A&M University Systems Chancellor's Research Initiative (CRI) to become a nationally recognized computational systems biology research center.



CCSB at PVAMU

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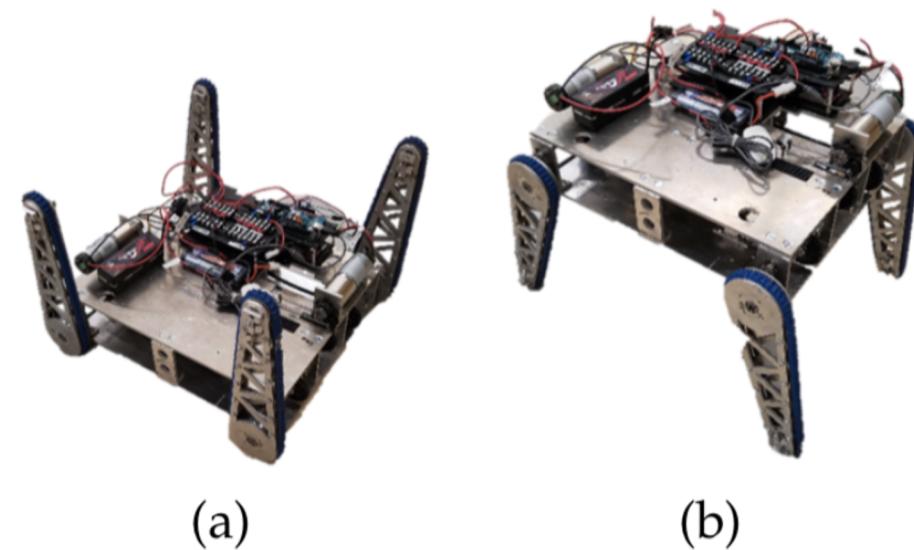
- **Genomics Lab** offers Illumina sequencing by synthesis. It is equipped to isolate, quantitate, evaluate quality of nucleic acid preparations and prepare libraries for sequencing using a workflow that minimizes contamination.
- **Personalized Genomics Lab** uses Illumina NextSeq 550 and Agilent gene expression microarrays to profile the transcriptomes of cells and tissues from humans and animal models of human diseases.
- **Machine Intelligence Biology Lab** focuses on computational biology using existing tools or developing novel methods to speed up the procedure of genetic data analysis or enhance the analysis performance.

Florida Agricultural and Mechanical University (FAMU)

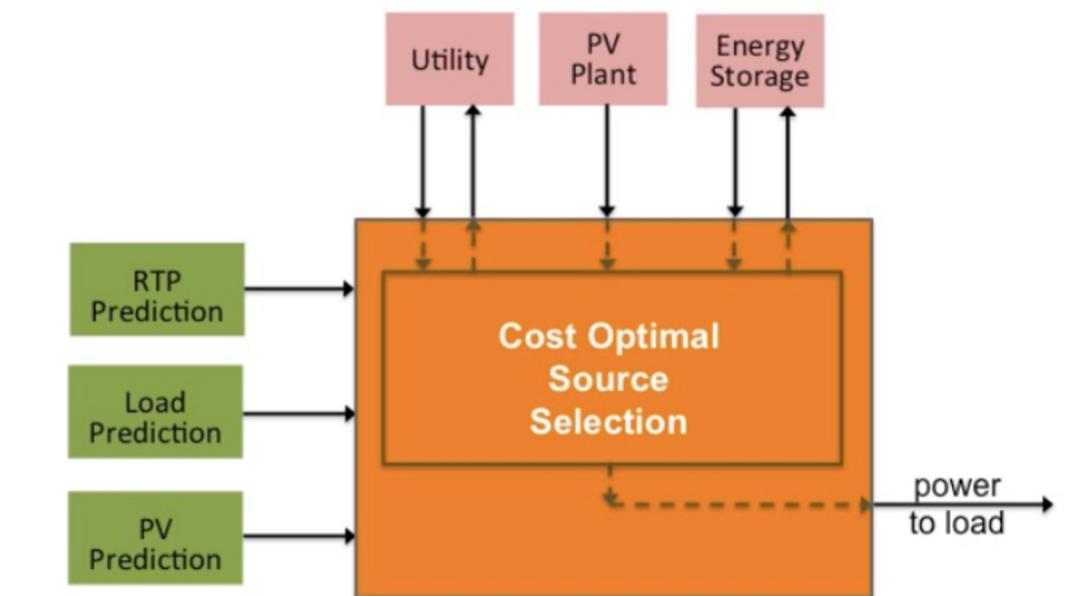
Center for Intelligent Systems, Control, and Robotics (CISCOR)



US Army Research Laboratory (ARL)
Assessment of Energy-Efficient and Model-
Based Control



Sound Identification for Fire-Fighting Mobile
Robots



Cost Optimal Control of Microgrids Having
Solar Power and Energy Storage

Bowie State Virtual Reality Laboratory

- Develop student research and development skills in VR
- Understand the potential for VR for instruction and visualization



North Carolina A&T State University

Center of Excellence in Autonomy

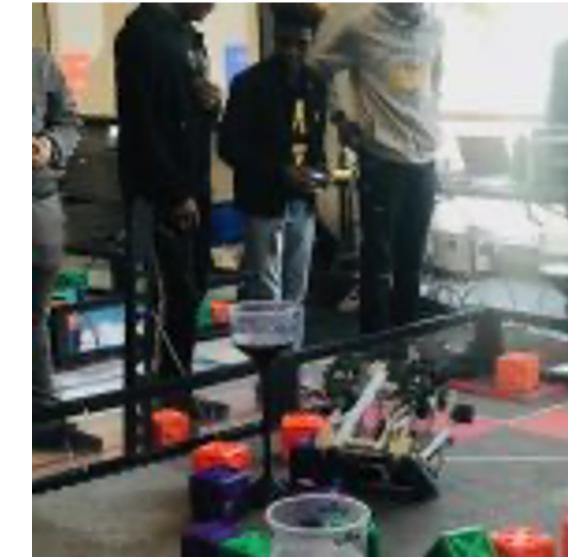
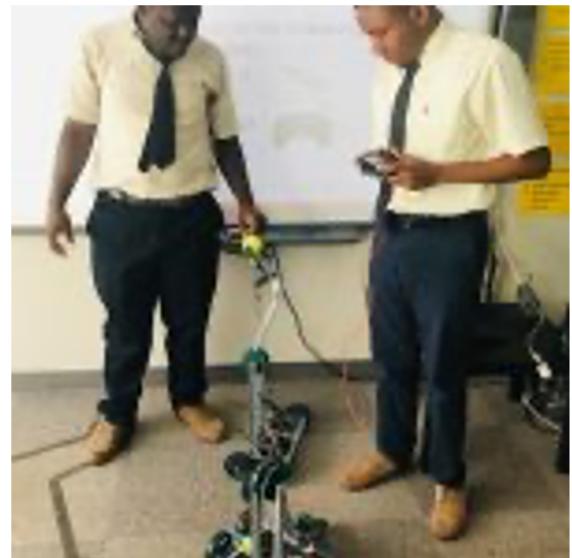
- Testing Evaluation and Control of Heterogeneous Large-scale Systems of Autonomous Vehicles



Coppin State University

Lab for Artificial Intelligence and its Applications (LAIA)

- Research and development in robotics, artificial intelligence, human-computer interaction, the internet of things (IoT), and culturally relevant learning technologies.



Coppin Academy Robotics

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Thank You



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