



**CENTER FOR BLACK
STUDIES RESEARCH
UC SANTA BARBARA**



**Students Engagement
and Enrichment in Data
Science
(SEEDS)**

Understanding Diverse Epistemologies



CENTER FOR BLACK STUDIES

COMPUTER SCIENCE
ANTHROPOLOGY
MOLECULAR-CELLULAR-DEVELOPMENTAL

INSTITUTIONAL RESEARCH
MARINE BIOLOGY
ENVIRONMENTAL SCIENCE
NEUROSCIENCE

31 MAJORS

242/50

LIBRARY
BIOLOGY
ENGINEERING
PSYCHOLOGY
ART
EDUCATION

COLLABORATION



SOCIOLOGY
STATISTICS/APPLIED
PROBABILITY
HOUSING
ADMISSIONS

SEEDS

Innovation through Diversity

Data Science

Living & Learning



- Convergence through multiple disciplines
- Living, learning & social development
- Development of common interest
- Increase diverse knowledge
- Connecting to real life issues
- Participatory design

FOUR PILLARS

LIVING AND LEARNING

PEDAGOGY/ANDRAGOGY

**EXPERTS
DIVERSE
DISCIPLINES**

DATA CARPENTRY

**SKILLS:
BASH
GIT
R
PYTHON
CENSUS**

**DIVERSE
EPISTEMOLOGIES
ONTOLOGIES
AXIOLOGY**

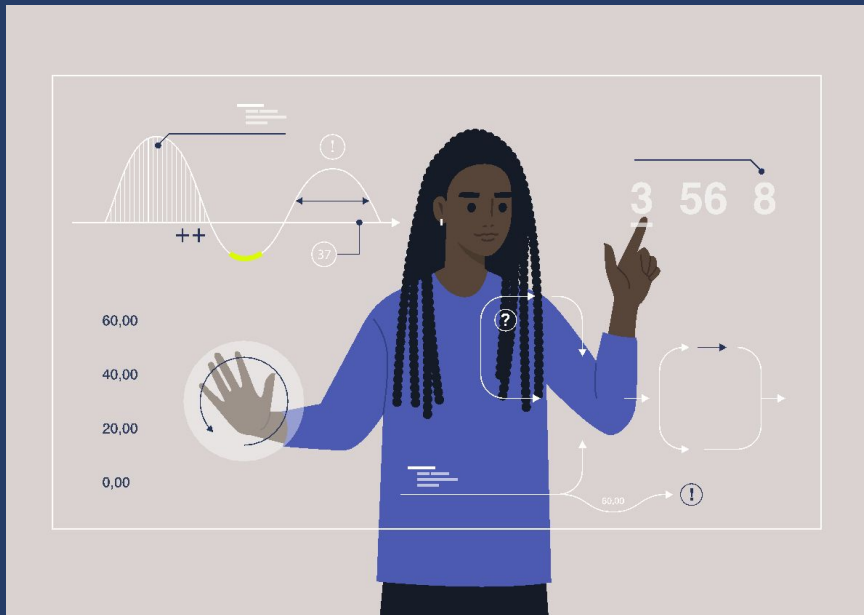
**RESEARCH
QUANTITATIVE
QUALITATIVE**

FOUNDATION

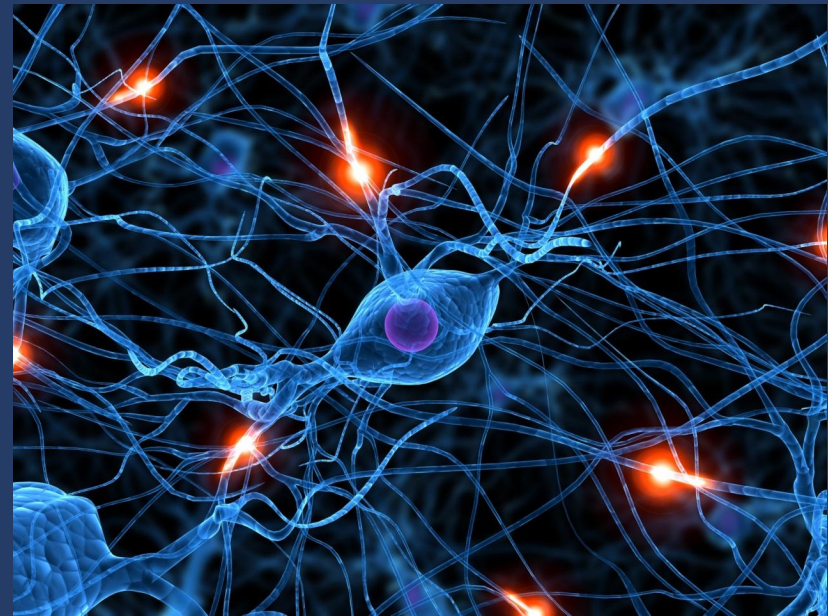
Multidisciplinary Mentors & Guides for SEEDS

- Sharon Tettegah, PhD.
(co-director)
- Tim Sherwood, PhD.
(co-director)
- Michelle Brown, PhD.
- Faithe Day, PhD.
- Miriam Burnett, MA
- Joseph Incandela, PHD.
- Spencer Lavere Smith, PhD.
- Paige Miller, PhD.
- Naomi Tague, PhD.
- Joaquin Noguera, PhD.
- Ambuj Singh, PhD.

BLACK RESEARCHERS ADVANCING INTELLIGENCE IN NEUROCOMPUTATION



BRAIN



<https://blacksinneurocomp.com/>

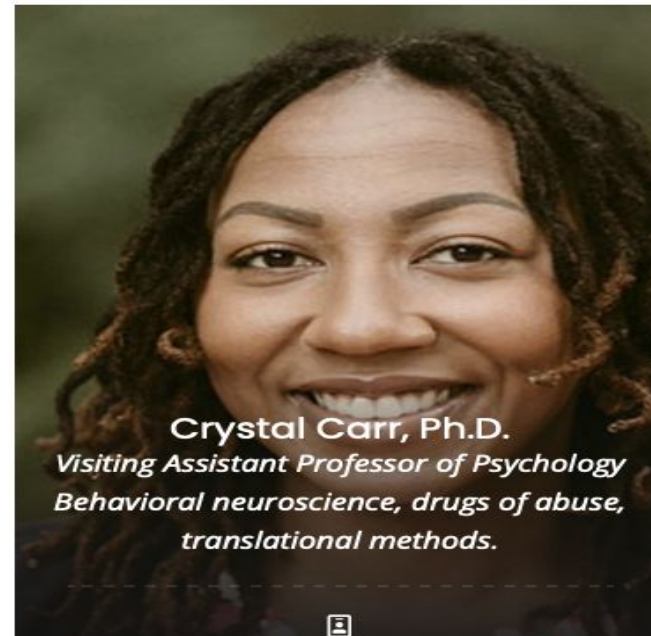
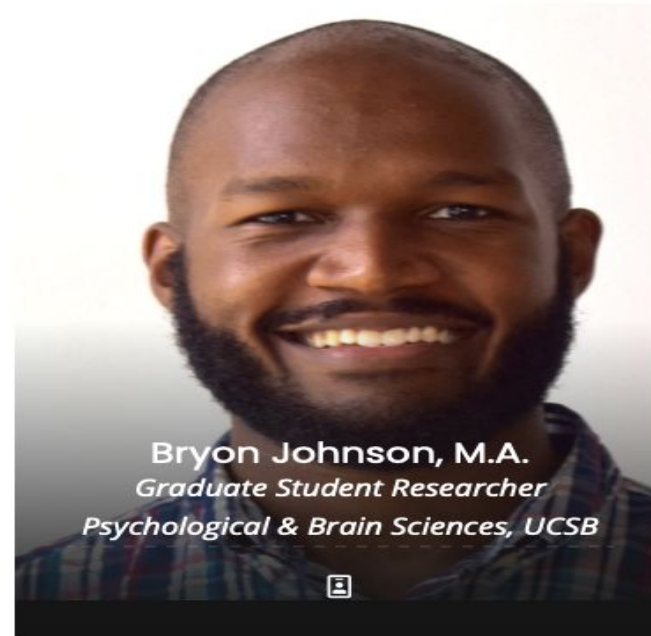
UC SANTA BARBARA

Neuro

Computation

Black Researchers Advancing Intelligence
in Neurocomputation (BRAIN)





Why?

The importance & relevance of data science

- Increase demand of jobs
- Approximately 200k unfilled positions
- ~3 million annual openings expected in DSA in 2021
- Employers requested more positions in DSA compared any other skilled job
- High demand for professionals with analytical skills
- Domain expertise
- More diverse populations and thinking needed to address underrepresentation
- Specific needs for deep knowledge in diverse epistemologies, ontologies and axiology
- Transdisciplinary mindset

Planting SEEDS @ UCSB



<https://blacksinneuroco>



SEEDS: Advancing Diversity

Sponsors:

THANK
YOU



Sponsors:

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The Google logo, featuring the word "Google" in its signature multi-colored font with a trademark symbol.

<https://cbsr.ucsb.edu/research-projects/data-science>

The logo for HEARST foundations, with "HEARST" in a bold, sans-serif font and "foundations" in a smaller, italicized serif font.