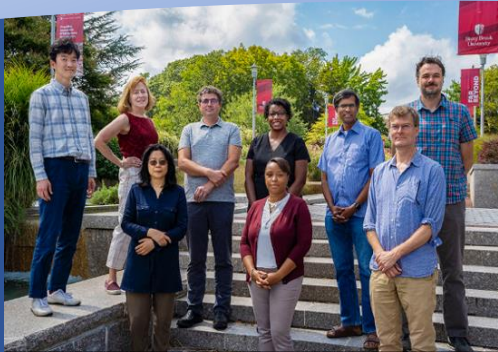


# Detecting and Addressing **BIAS** in Data, Humans, and Institutions

This 5-year training project, funded by NSF, creates a two-way bridge between the human-centered sciences (Africana Studies, Economics, Linguistics, Neurobiology & Behavior, Political Science, Psychology, and Sociology) and the data sciences (Applied Math & Statistics and Computer Science). Ph.D. students from both the human-centered sciences (HCS) as well as the data sciences (DS), will have their choice of focus. The focus of Artificial Intelligence is open to any HCS student or Applied Math & Statistics student. The focus of Human-Centered Data Science is open to all trainees.

Trainees will participate in at least two research practica, where faculty and trainees across disciplines will collaborate on convergent data science research projects addressing bias in data, humans, and institutions. Trainees are encouraged to join existing research projects or to develop their own.

There is a critical need to deepen the training of domain science students in data science, as well as a growing need to expand training of data science students in human-centered problems. SBU students in particular gather in distinct groups, with higher proportions of women in the human-centered sciences than in the data sciences. A lack of diversity in the AI workforce is concerning because addressing bias and solving hard societal problems demands diverse perspectives.



## AI Focus

This focus is available to Africana Studies, Applied Math & Statistics, Economics, Linguistics, Neurobiology & Behavior, Political Science, Psychology, and Sociology PhD students. Students on this track will take four Computer Science courses (12 credits). Intensive “bridge courses” will be offered to aid in the completion and success in these computer science graduate courses, along with a cohort of other NRT trainees. Two of the bridge courses may count towards this focus.

## HCDS Focus

This focus is available to all trainees, both DS and HCS. Students with a focus in Human-Centered Data Science, will take two core DS/CS courses and 2 electives chosen from a list of interdisciplinary courses (12 credits). Students must choose at least one elective outside of their home department. It is important to note that courses outside of the home department require permission of the instructor.

## Eligibility & Funding

- Trainees can either be funded (fellows) or non-funded. Fellows must be U.S. citizens, nationals, or permanent residents to receive NSF funding.
- The NSF stipend level is \$34K per year
- Most fellows will be non-funded trainees before applying for funding
- Fellows will receive one year of funding and can apply for a second year.
- Travel funds are available for all trainees (funded and non-funded)
- It is important that all trainees succeed in their primary PhD programs as well as in their NRT-related activities.

- It is required that all trainees participate in at least 2 research practica where they will collaborate on interdisciplinary research projects.
- Trainees are expected to remain engaged with NRT-related activities, which may include sporadic surveys, until they have completed their PhD, even if their dissertation is on a different topic.

**For more information and to apply, visit our website!**



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