

DAMAD Science CorpsThe Delaware And MiD-Atlantic Data Science Corps

Wednesday 26 October 2022 16:30 (1 hour)

The Delaware And MiD-Atlantic Data Science Corps (PI Bianco) is an NSF HRD-sponsored, regional partnership between the University of Delaware (UD), Lincoln University (LU), and Delaware State University (DSU) aimed at creating an equitable, accessible program for undergraduate data science education that: (1) is accessible to students of any background with a focus on STEM preparation level; (2) supports students' education and career goals across disciplines inside and outside of STEM; (3) employs equity-focused educational practices that support all students' identities, (4) provides job-ready skills including data-ethics training; (5) builds capacity for data science training at LU and DSU, two Historically Black Colleges and Universities (HBCUs) Lu with emerging interests in Data Science education by leveraging the established pedagogical experience of the UD in Data Science; and (6) improves equity-focused educational practices at UD, a Primarily White Institution (PWI), to improve our recruitment and retention of students from groups traditionally marginalized from STEM and higher education. The program has/will create new classes, events (hackathons), and research opportunities for students at the three partnering institutions. It will generate a joint certificate program for students at each partnering institution. It will produce templates for boot camps, introductory Data Science classes, and advanced topical classes in time series analysis machine learning methods, geospatial data science, and AI-based image analysis. We will also document our successes and failures and produce a roadmap and "best practices" for other institutions interested in integrated educational partnerships across Research1, PWI, and minority-serving institutions.

We will review our plan, current activities, and the challenges we are facing in developing this unusual, but potentially transformative program.

Research

Research activities will be conducted by students across domains

Education and Outreach

Setting up an equity-focused data science educational program as a collaboration between an R1-Primarily White Institution, and two Historically Black Colleges and University with emerging Data Science interests

Data & Cyberinfrastructure

nothing to report

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