



Overview:

Since its inception in 2018, the Hawai'i Data Science Institute (HIDS) continues to be a hub for supporting collaboration, research opportunities and workforce development across the UH community and partner institutions. The Data Science Fellows Program is a yearlong training program that was developed in HIDS to broaden the adoption of cyberinfrastructure skills, support the creation of cyberinfrastructure curriculum resources and provide opportunities for professional development.



Program Features

- Multidisciplinary cohort of graduate students representing climate science, computer science and various STEM fields.
- Curated and immersive workshop series target mastery of data science applications.
- Intentional support for longitudinal engagement of students through paired workshop development and mentorship experience.
- Inclusive professional development opportunities

Impacts and Opportunities

Data science fellows participating in the program have opportunities to leverage research opportunities through the Hawai'i Data Science Institute and EPSCoR Change(HI) project. Program alumni Jared McLean, Matthew Lucas, Alberto Gonzalez and Aditi Jaiswal currently collaborate with UH researchers on ongoing research projects. Several program alumni working in academia and industry positions remain connected and continue to attend workshops, seminars and symposiums. The program serves as a platform for interdisciplinary collaboration by leveraging the expertise of faculty from different departments and continuing to include participants with various academic disciplines.

Training Modules

As part of the program, graduate students, in collaboration with workshop instructors and peers develop and co-present workshops. Workshops are structured as hands-on modules to enhance the learning experience and maximize participant engagement. The workshop repository is publicly available: <https://change-hi.github.io/archive-2022-2023/modules/>. Participants presented their learning experience as a workshop series to the UH community and general public. Video recordings of workshops are publicly available on the Hawai'i Data Science Institute YouTube channel.



Skills Acquisition and Application

Fellows apply data science skills acquired through the program to their thesis research projects and present these applications at research symposiums held in the Spring and Fall semesters. HIDS and EPSCoR resources were leveraged to build a community of practice. Fellows met weekly in the classroom hub of the Hawai'i Data Science Institute to share updates on research and workshop experiences.

Mentorship and Professional Development

The year-long program includes a mentorship experience where data science fellows guide undergraduate students through the life cycle of a data science project during an undergraduate summer program (CITRUS). Professional development opportunities include research symposiums, conferences and seminars featuring invited speakers from Chaminade University and partner organizations. Faculty all-hands meetings were intentionally combined with student research presentations to increase cross-collaboration, foster inclusiveness and reduce barriers between faculty and fellows.

