Biomedical Informatics Grand Rounds

Leveraging Large-scale Government Data for Sickle Cell Disease Research: Python, reproducible infrastructure, and AI-assisted workflows in the All of Us Research Program

Hants Williams, Ph.D., R.N.,
Applied Health Informatics,
Stony Brook University

Wednesday Apr 22nd, 2026
3:00 pm - 4:00 pm

Location: MART Building, Room: 7M-0602 (7th Floor)
Remote Access
Join Zoom meeting
https://stonybrook.zoom.us/j/95617197636?pwd=KytzZ2pVRG9SZGpKZUtpNXJISjNjZz09
Meeting ID: 95617197636
Passcode: 924293

Educational objectives:

1. Describe the data modalities available in All of Us (EHR, genomics, wearables) and explain how OMOP CDM standardization enables reproducible cohort definitions across CDR versions.
2. Evaluate the role of AI-assisted coding tools in accelerating the research-to-manuscript pipeline while maintaining investigator oversight and scientific rigor.
3. Apply a secure two-environment workflow to distinguish between exportable code artifacts and environment-bound data outputs when working within controlled-access research platforms.

Disclosure Statement: The faculty and planners have no relevant financial relationship with ineligible companies, whose primary business is producing, marketing, selling, reselling, or distributing health care products used by or on patients.

Continuing Medical Education Credits: The School of Medicine, State University of New York at Stony Brook, is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. The School of Medicine, State University of New York at Stony Brook designates this live activity for a maximum of **1** ***AMA PRA Category 1 Credits™.*** Physicians should only claim credit commensurate with the extent of their participation in the activity.