

HDR DSC: Data Science for Energy Transition

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Participating Universities

- University of Houston (PI: Mikiyoung Jun, co-PIs: Jiajia Sun, Pablo Pinto)
- University of Houston-Downtown (co-PI: Dvijesh Shastri)
- University of Houston-Victoria (co-PI: Yun Wan)
- University of Houston-Clear Lake (Sr. Personnel: Jiang Lu)
- Sam Houston State University (Sr. Personnel: Dooyoung Kim)
- Eight more Sr. Personnel faculty members from participating universities

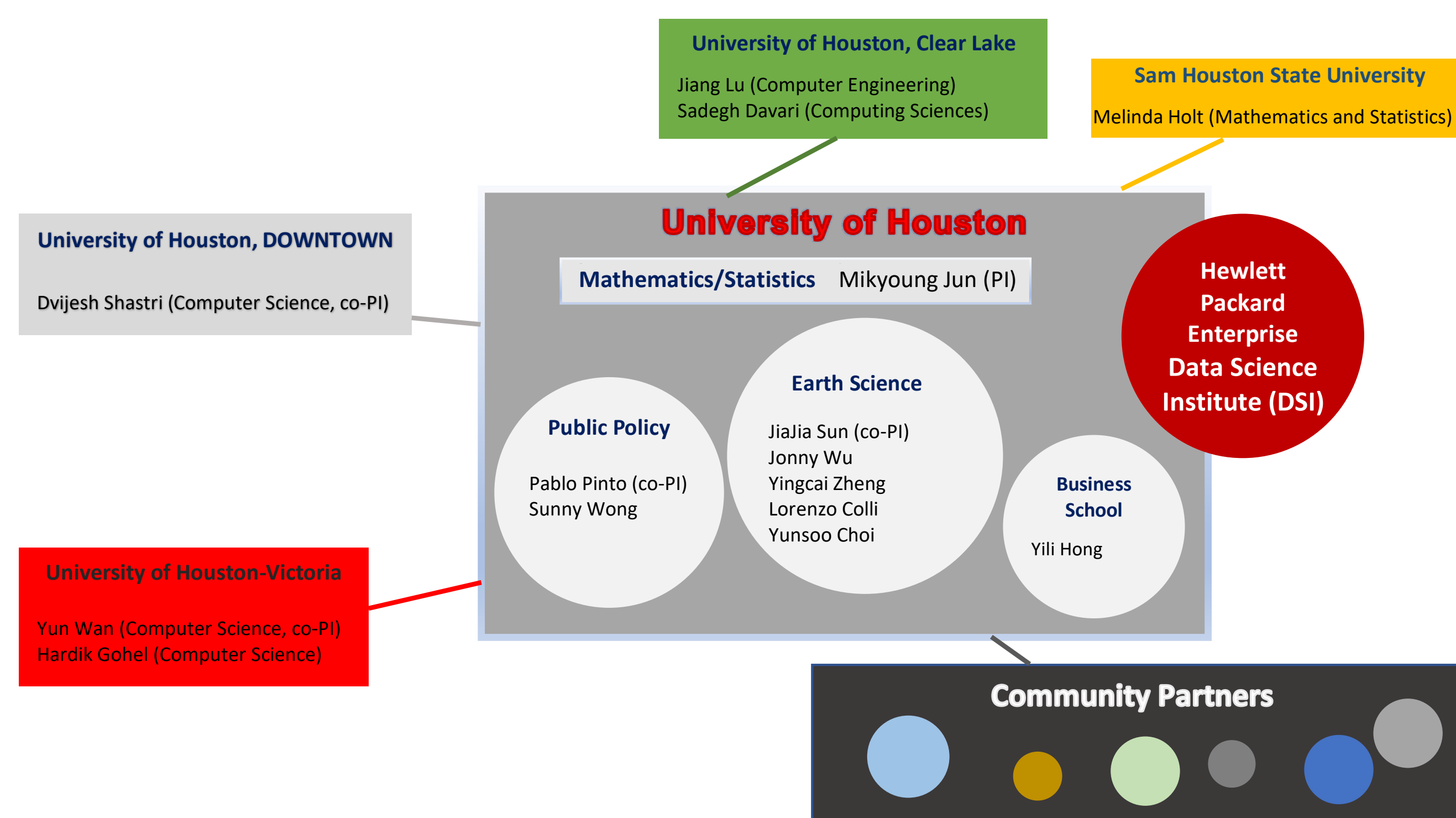
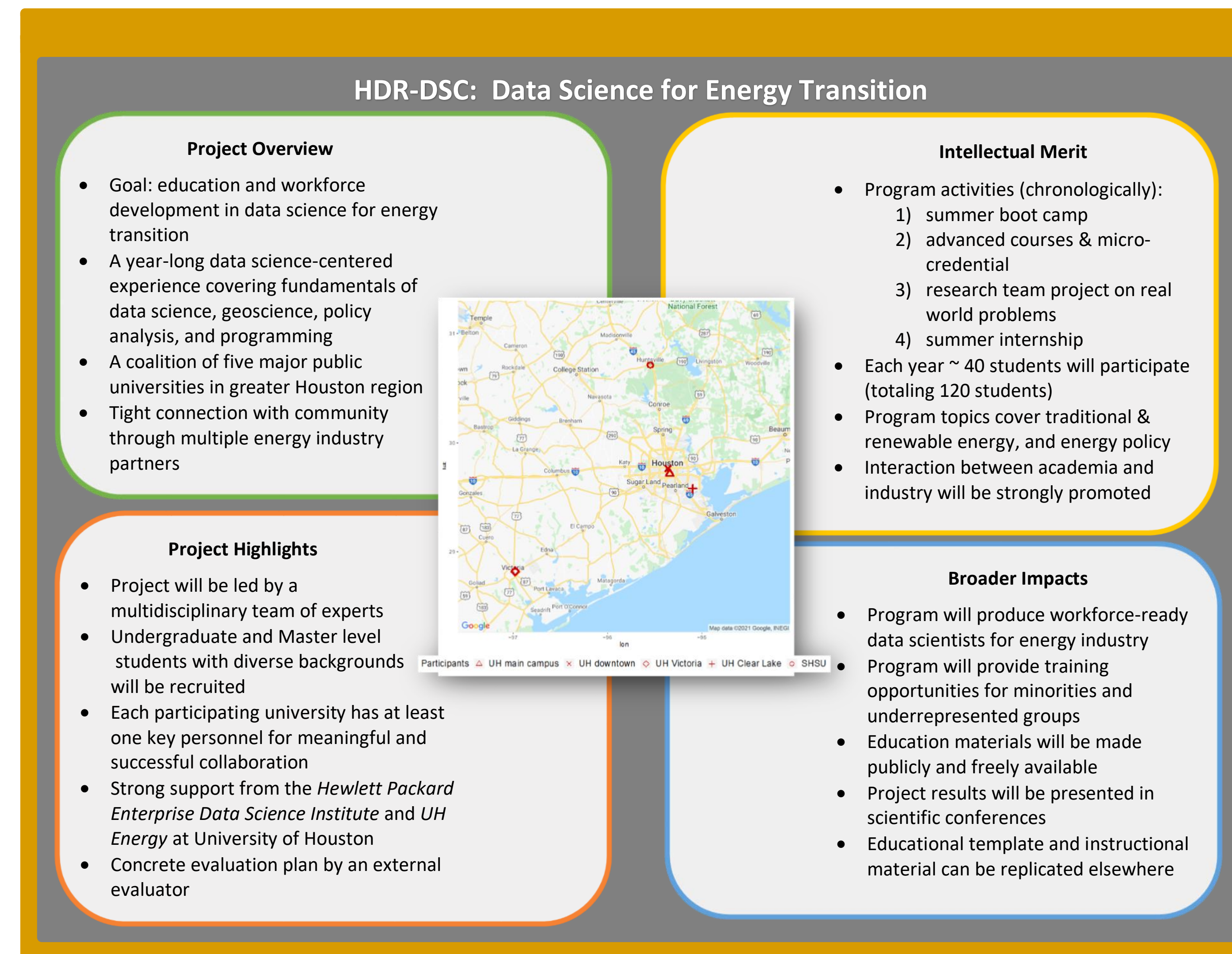
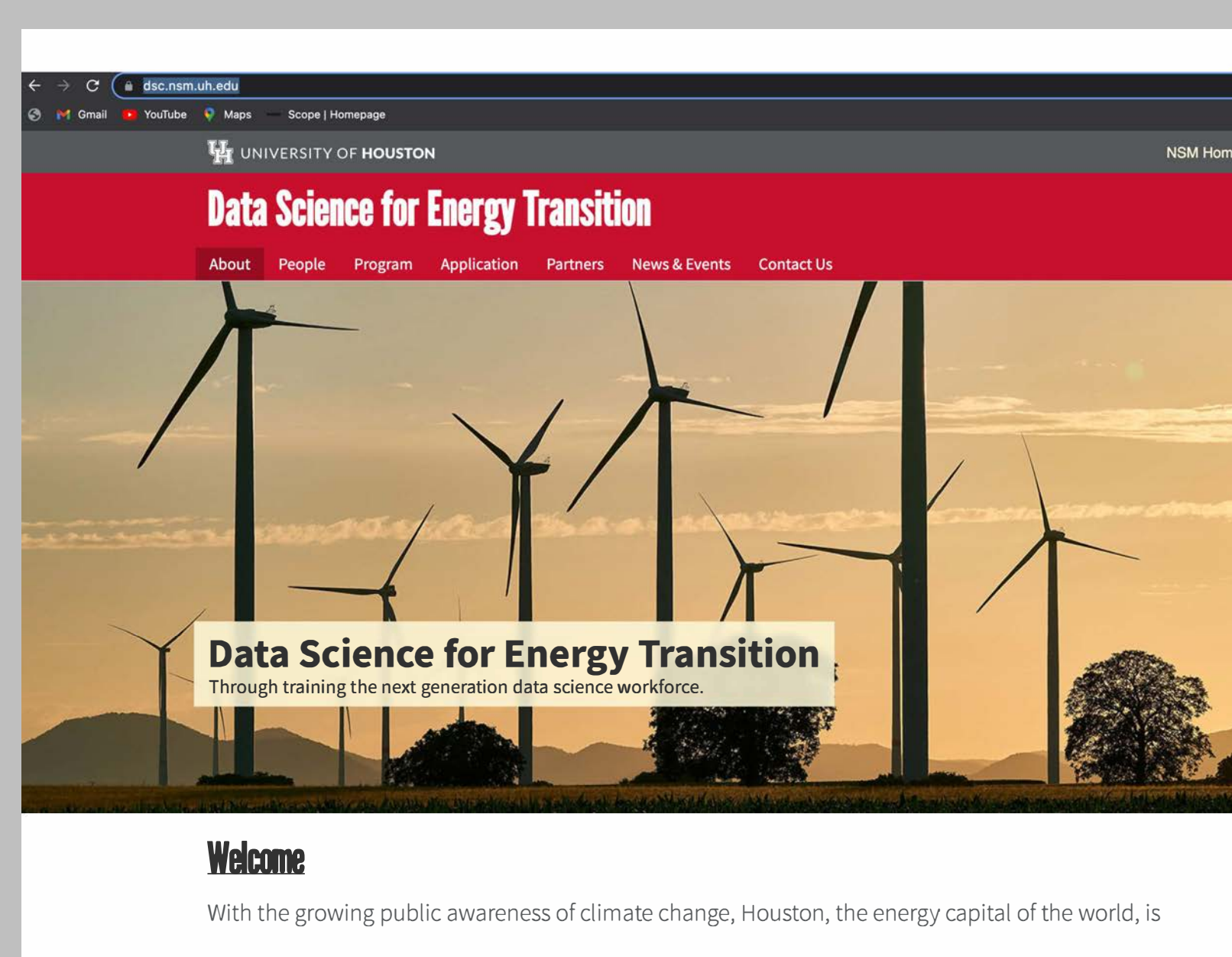


Figure 1: Overall structure of the program

Industry Partners

ConocoPhillips, Fugro, Halliburton, Schlumberger, Shell, Quantico, Xecta, among others

Program Website: dsc.nsm.uh.edu



Five-week Summer Camp

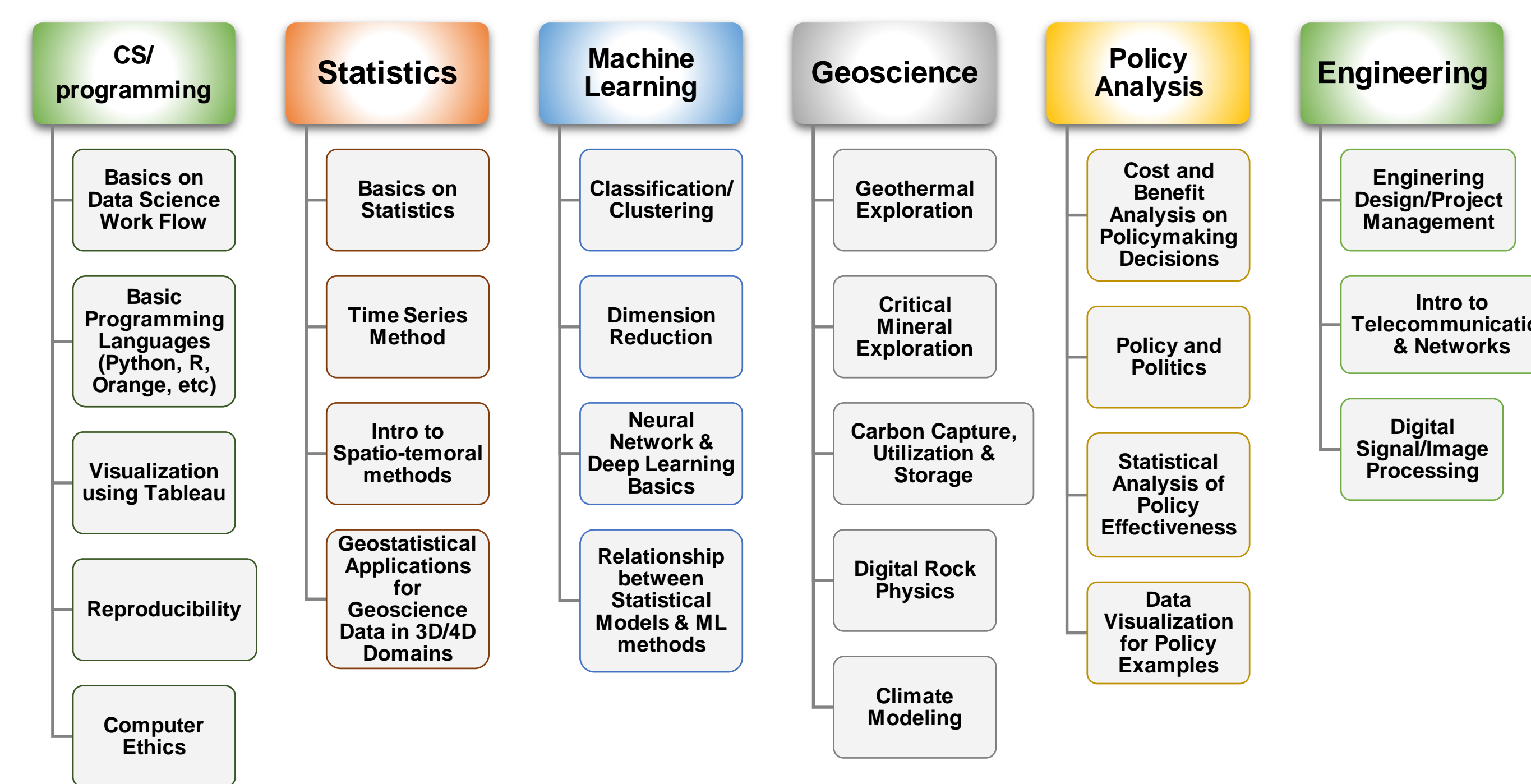


Figure 2: Curriculum modules

Research Team Project

- Project data provided by industry partners
- Each team mentored by faculty and industry partner
- At the end of the project, teams present their results at a workshop (there are monetary awards)

Year 1 Accomplishments

Summer Camp 2022

- Successfully completed for 33 participants (in a hybrid mode)
- Students represent all five participating universities
- Last two days with series of talks by industry partners on their data science related work
- Reports (by a third party evaluation team) based on students survey and instructor focus groups available

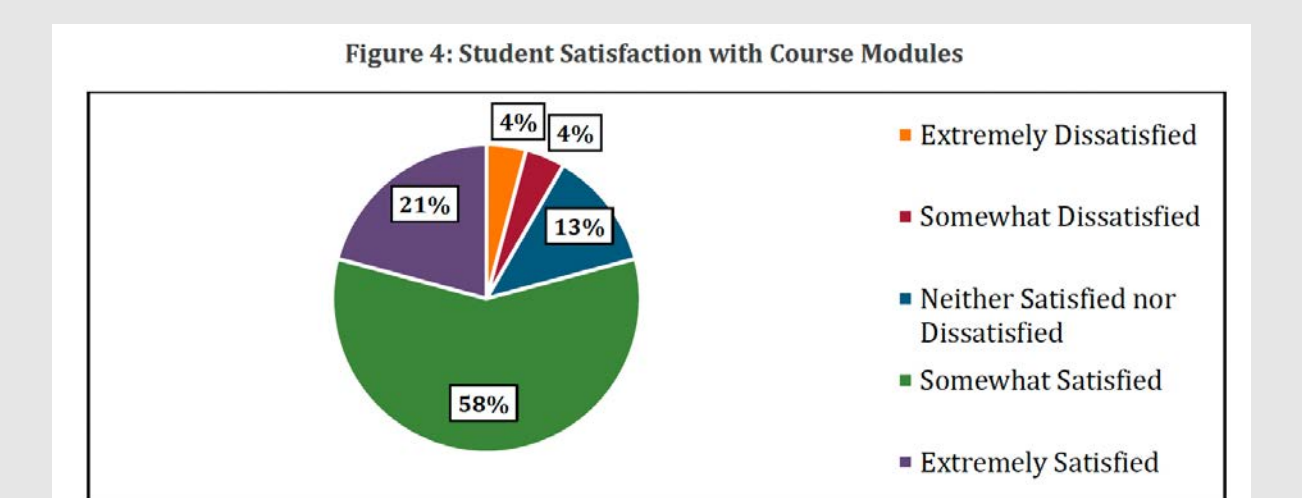
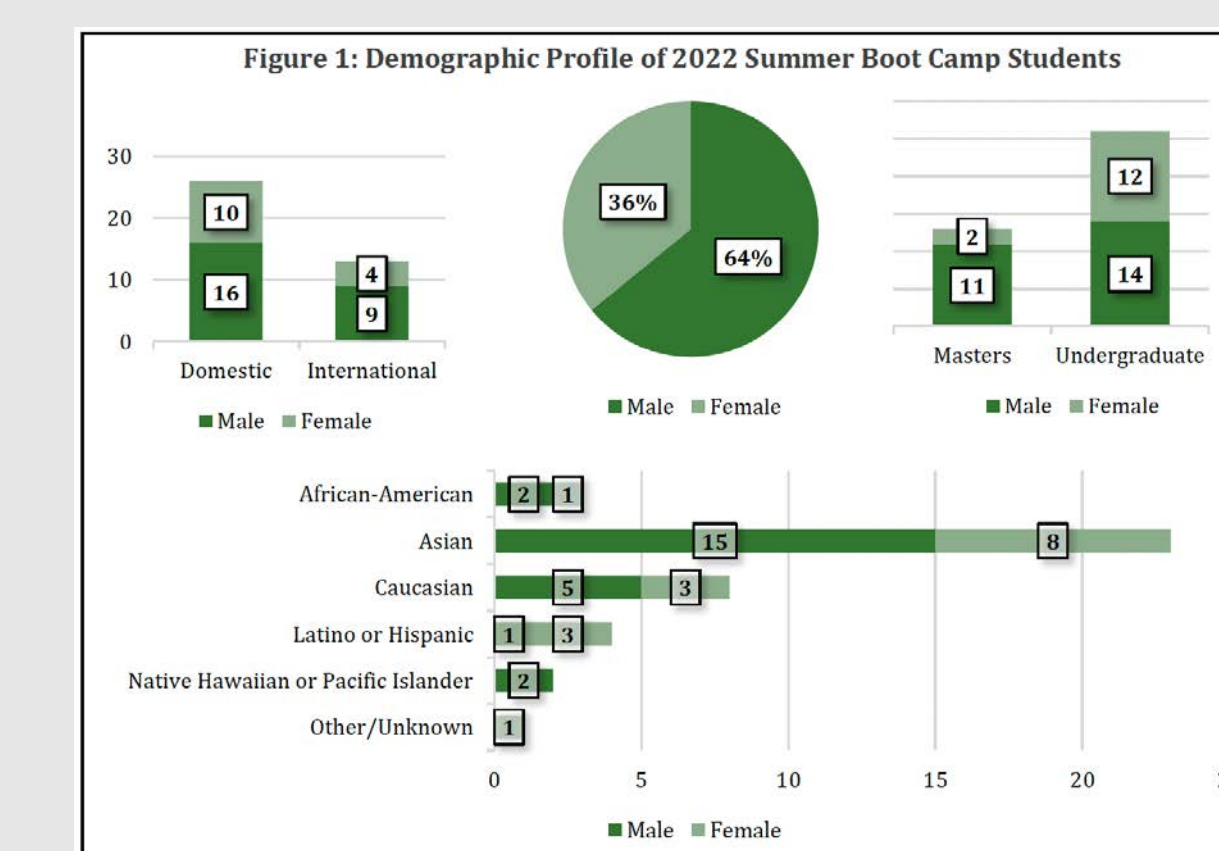
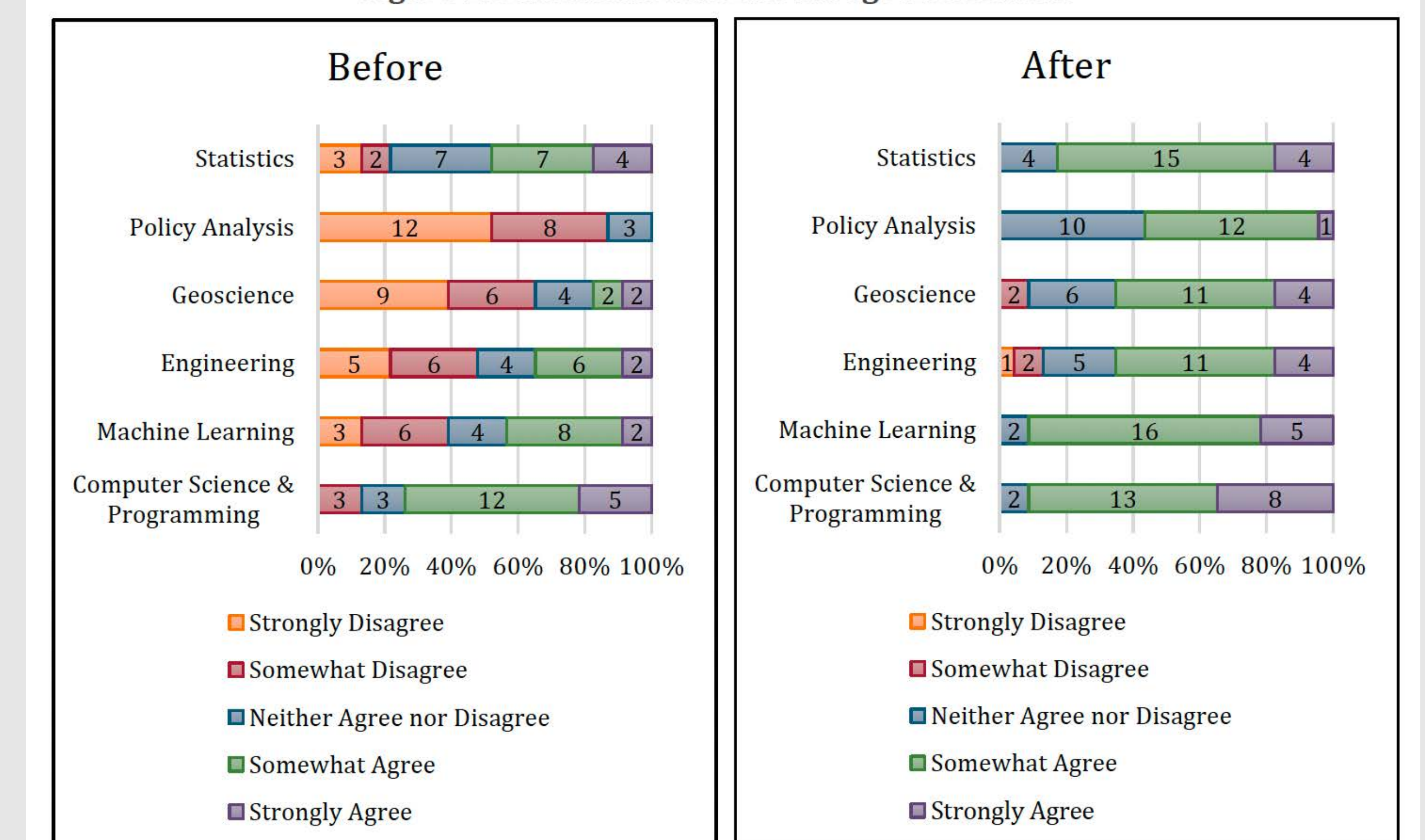


Figure 2: Student Module Knowledge Assessment



Contacts

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