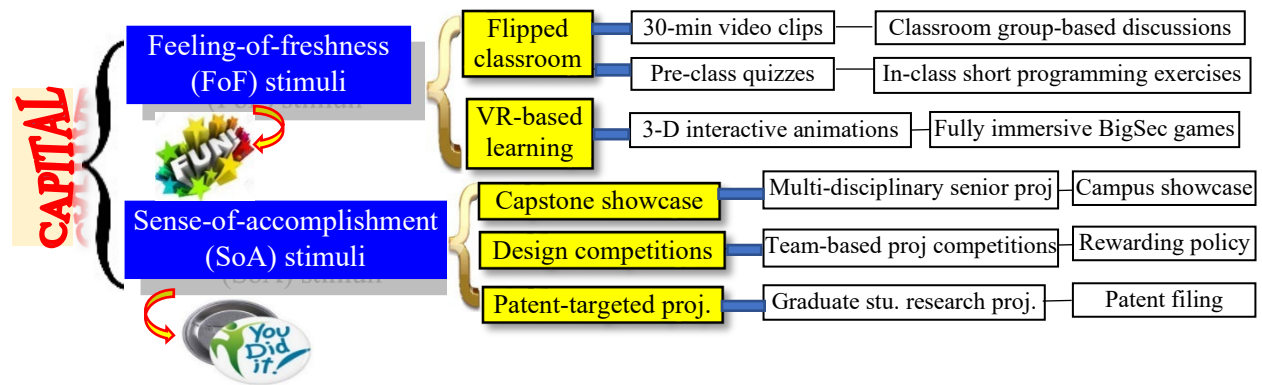


Poster: NSF DGE#1723250, "Captivology-Stimuli-based Learning (CAPITAL) of Big Data Security (BigSec): Towards a Science/Engineering, Career-Oriented Training"

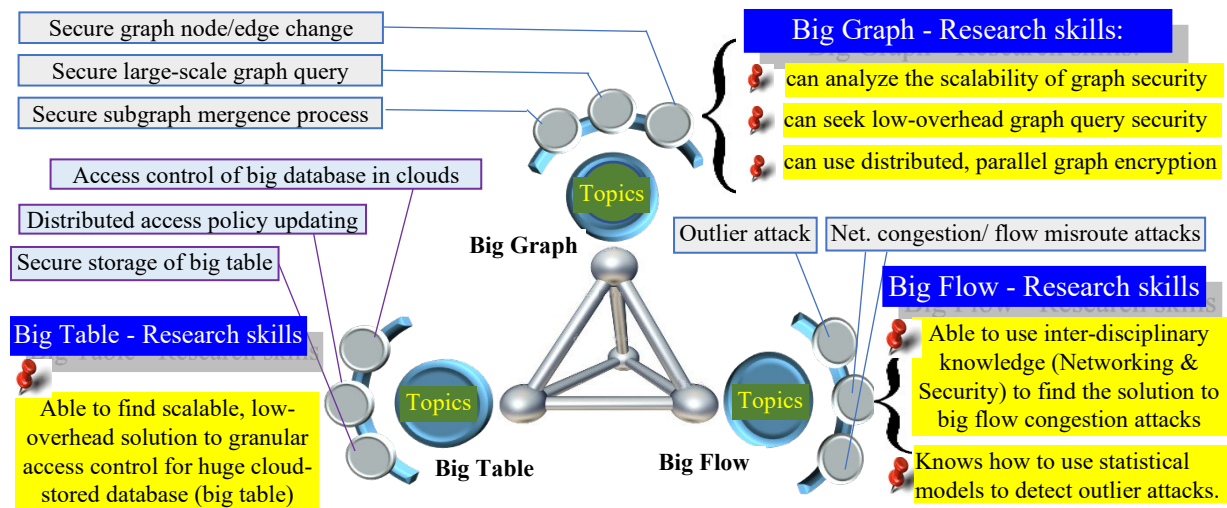
(PI: Dr. Fei Hu, University of Alabama, fei@eng.ua.edu)

The goal of this project is to implement a new pedagogy, called Captivology-Stimuli-based Learning (CAPITAL), for the active training of big data security/privacy knowledge, through the development/offer of two courses (one for undergraduate, and one for graduate students) together with their flipped classroom and virtual reality (VR) materials (such as lecture videos, VR-based cybersecurity games, etc.), for the students in both electrical & computer engineering (ECE) and computer science (CS).

New pedagogy: CAPITAL model:



Research skills enhancement via graduate student BigSec course:



Assessment tools used:

1	Quantitative data: BigSec courses' grades	8	Exit interview with some last-year students
2	Two courses' student surveys	9	Student learning journal during project design
3	Course instructor questionnaire	10	Graduate advisor comments on BigSec topics
4	Virtual reality games survey	11	Focus groups on flipped classroom students
5	Student project competition results	12	School IP (Intellectual Property) office data