**Presentation Summary – Ms. Sarah Hsi**

“Global Competitive Advantage through STEM Education:”

* “Data is the new oil”
* Data analysis is essential in the fields of business, social sciences, education, etc.
* Ex: United Way uses data to create Child Well Being Index; universities use data to uncover reasons why students drop out of college and then devise a plan to assist students
* “How does Amazon offer free shipping? Nothing is Free!” Data Analysis- they sell your purchasing data; advertisers who target you pay for your free shipping.
* There is a shortage of ½ million data scientists worldwide
* Starting salary for data scientist is ~ $91,000; experienced data scientist ~ $250,000.
* The cyber security skills gap is growing at rate of 3X fast than other IT needs.
* There are “too many security threats, too few professionals”
* Fort Benning Embry Riddle Worldwide offers degree programs in Cybersecurity:
  + [https://worldwide.erau.edu/locations/fort-benning/](https://urldefense.proofpoint.com/v2/url?u=https-3A__worldwide.erau.edu_locations_fort-2Dbenning_&d=DwMFAw&c=LFYZ-o9_HUMeMTSQicvjIg&r=aldt6DHJhzt1d81LCwf_xmcaumkz8J8R3veKKp540FA&m=u3G_bEdeiICpju7-FWvky7VuG4TAcFOjUYaMhUbE0mE&s=PHSI2ppSnTAXnZZNsU9XGdKehkZ_Kuw9MFU4hajdhXo&e=" \t "_blank)
  + [http://worldwide.erau.edu/degrees/?field-of-study=security-intelligence-and-safety&campus=worldwide](https://urldefense.proofpoint.com/v2/url?u=http-3A__worldwide.erau.edu_degrees_-3Ffield-2Dof-2Dstudy-3Dsecurity-2Dintelligence-2Dand-2Dsafety-26campus-3Dworldwide&d=DwMFAw&c=LFYZ-o9_HUMeMTSQicvjIg&r=aldt6DHJhzt1d81LCwf_xmcaumkz8J8R3veKKp540FA&m=u3G_bEdeiICpju7-FWvky7VuG4TAcFOjUYaMhUbE0mE&s=fIHO9NuheIZ7rQg-YNRCDE0OEKmK9kNIb8dw6Axf9s4&e=" \t "_blank)
* Networking is important
  + Cultivate relationships (2000 social media followers does not mean you have “relationships”)
  + Introduce yourself to a wide range of people with various interests
  + Volunteer
* College = Theory vs. Career = Practice ; Lots of “On the Job” Training
* Universities are embracing CAPSTONE PROJECTS so that students are exposed to more “practice” in their learning