1 Student content

1.1 Constance Hendrix

Greetings. My name is Constance Hendrix. I go-by Constance. I'm a wife, an electrical engineer, a 30-year Air Force veteran, and a current Engineering Security PhD student here at UCCS (see Canvas picture in Figure 1. I'm com-

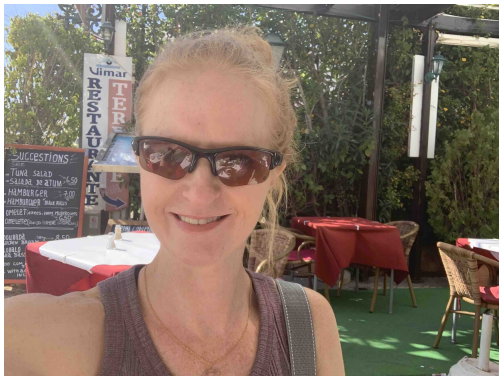

Figure 1: Constance, about to be fed, while on a overdue retreat!

ing in with a Masters of Science degree in electrical engineering with a focus in navigation systems from the Air Force Institute of Technology and a Masters of Business Administration from the University of West Florida. I'm also a licensed electrical engineer in the state of Colorado and a certified Project Management Professional. My overarching goal for graduate school is to make a significant contribution to my engineering field and lay the foundation for a future in academia. My research interests include reliable and accurate navigation, secure satellite communications, biologically-influenced design, artificial intelligence, and signal processing. I have yet to specifically identify my security research topic, but know it will include artificial intelligence, signal processing, and/or edge computing. I hope to select a topic by next semester and will be preparing for my oral qualifier next Spring as well. My goal for this course is to narrow my research focus for my degree, learn new and efficient ways to conduct research, and develop research questions. Outside of school, I work part-time as a position, navigation and timing (PNT) engineer, enjoy reading, working on stained glass creations, quilting, camping, fly fishing, hiking, cooking, and gardening. Quilting is a tradition for the women in my family. Even though I just recently started, I am excited to carry on this tradition.

1.2 James Bond(Peng)

Before I study in UCCS, I was security solution architect and software engineer. I worked for Newegg, and Hewlett-Packard. I developed security for BIOS (basic input output system) and firmware in laptops, developed infrastructure security for fraud detection systems and search systems in E-Commerce. I also served in military, for cyber operation and radar systems for Coast Guard. I studied electrical engineering and energy systems in undergraduate and high school.

My recent research interest now is signal intelligence (SIGINT), and advanced persistent threats (APTs) in embedded systems. Fields I've done are:

- adversarial machine learning (artificial intelligence, intrusion detection and operation systems)
- lightweight provenance (operating systems)
- trust execution and zero trust architecture (cloud, privacy and cryptography)
- fuzzing for satellite embedded systems (vulnerability scanning, protocol state machine, flight software)

I like not only coding, reading but also sports. I did fencing in elementary school and, after high school, Greco-Roman wrestling, boxing, cage fight, and surfing (both long board and short board). Now in the mountains of Colorado Springs, I swim instead. I am glad to learn from you guys.

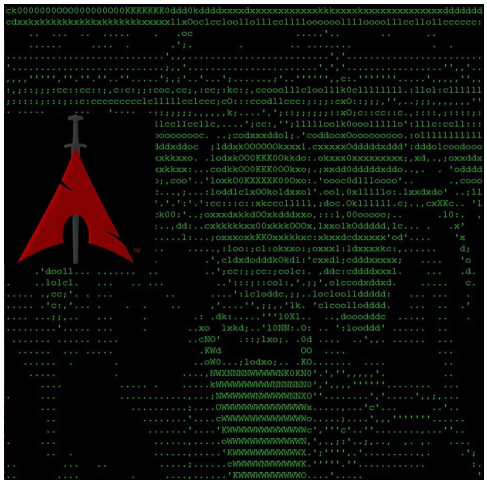

Figure 2: Profile Picture on Office360

Question for James Peng from Constance Hendrix: Hi again, James. I saw you served in the Coast Guard as a Cyber Operator – very exciting! Where have you been stationed?

Answer from James Peng to Constance Hendrix: I was not cyber operator but cyber security specialist for intelligence and counterintelligence against China, stationed in Taipei—-a place near to Tokyo—-very far away from here Colorado Springs. Thank you for emailing me previously; because of that, I also found your Linkedin and already sent you a friend request. Please accept it when you have time. Your career background is also very exciting to me, too: My uncle worked at US Air Force Intelligence and Personnel for his whole career until retirement—-from US-Taiwan Command, German 7455th Tactical Intelligence Wing, Virginia, and NORAD—-, like you. And your current employer BAH happens to be my dream company/ firm has my dream position. I hope to join your company as a vulnerability security engineer after my PhD. Should be very fun!

Question for James Peng from Lori Babyak: Hi James. Thanks for fixing my problems in Babyak.txt - I appreciate it! You've done some interesting work - I hope you can explain it to me sometime.

Answer from James Peng to Lori Babyak: Hi, sure thing, anytime and anything. Feel free to ask me on any channel. Thank you for asking me question. By the way your background is also very very cool; not gonna lie. I feel all my classmates are extraordinary, wow!

Git Assignment - CS 6000

L. Babyak

September 15, 2020

2 Section 1

My name is Lori Babyak. I am a first year Computer Science PhD student at the University of Colorado, Colorado Springs. I hold a Bachelor's Degree in Computer Science from UT Austin and a Master's degree, also in Computer Science, from Texas State University. My goals for this course - CS 6000 Computer Science Research Methods- are to learn to research, read, and eventually produce research papers on subjects of interest in Computer Science. Additionally, I am looking forward to getting to know other students in the class and work collaboratively towards goals. Something personal about myself is that I have three grown children, two of whom live in the Denver area. Also, I took an extended vacation with a couple of friends in August. We visited Colorado Springs, Wyoming and South Dakota. In South Dakota, we visited Mt. Rushmore, the Crazy Horse Sculpture, and Custer State Park - where we saw free-roaming bison in their natural environment. I am happy and excited to be part of the UCCS community, and my hope is to make significant contributions to the field.

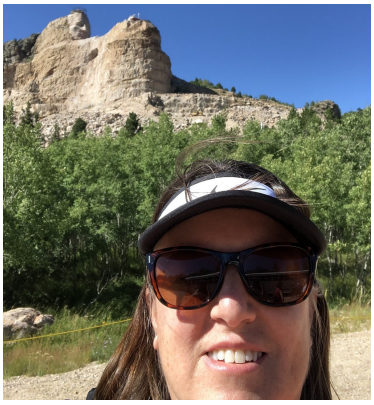

Figure 3: A photo of Lori Babyak in front of Crazy Horse sculpture, outside Custer, SD, August 2020

Question to Lori Babyak from Constance Hendrix: I traveled to Wyoming and South Dakota in July. Did you have the chance to see Devils Tower? **Answer to Question from Constance Hendrix**: We drove through Wyoming and stopped in Torrington. We only had a couple of days in SD, so we visited Mt. Rushmore, the Crazy Horse Sculpture and Custer State Park. I don't think we saw Devil's Tower. There's so much to see there!

3 Example of Easy Tables

Time (s)	Rel. time (s)	X Pos	Rel X Pos	Raw Y Pos	Model Y Pos
43.97	0	734	528	14.22624	18.26294
44.01	0.04	731	525	14.11335	18.14345
44.04	0.07	729	523	14.03819	18.06389
44.07	0.1	726	520	13.9256	17.9447
44.11	0.14	720	514	13.70096	17.70686
44.14	0.17	718	512	13.62624	17.62774
44.17	0.2	714	508	13.47704	17.46974
44.21	0.24	711	505	13.36535	17.35145
44.24	0.27	706	500	13.1796	17.1547
44.27	0.3	700	494	12.95736	16.91926
44.31	0.34	696	490	12.8096	16.7627

Better formated Tables

Time (s)	**Rel. time (s)**	**Y Pos**
43.97	0	18.26294
44.01	0.04	18.14345
44.04	0.07	18.06389
44.07	0.1	17.9447
44.11	0.14	17.70686
44.14	0.17	17.62774
44.17	0.2	17.46974
44.21	0.24	17.35145
44.24	0.27	17.1547
44.27	0.3	16.91926
44.31	0.34	16.7627