Writeup for the talks of Setor Zilevu 10/29
Submitted by: Provakar Mondal

Setor Zilevu is a PhD candidate at Virginia Tech majoring in Computer Science advised by Dr. Aisling Kelliher. His research focuses on Healthcare, Human-Computer Interaction, User Experience design, and User Interface design. In the seminar, he talked about **A Cyber Human Approach for Capturing and Assessing Human Movement Performance**.

He described how we get artificial intelligent systems to understand complex human movement performance. He mentioned the questions on which he is conducting research. How we create a standardized approach to quantitively and qualitatively measure human movement performance, how we can design and develop assistive interfaces that replicate clinical therapeutic experiences, can a computational approach to human movement performance help therapists in their assessment while providing valuable feedback for artificially intelligent systems are the research questions he talked in the seminar.

In the seminar, Mr. Zilevu mentioned Iterative Design and Evaluative Process which is intended to capture the system, rating rubric, and movement taxonomy and rating system. He provided a bunch of examples and showed good visualization for each aspect. Later he talked about video application tools and three kinds of study are involved regarding this. Study 1 is Score to Meaning, study 2 is Meaning to Score, and study 3 is Socratic Approach.

After that, he pointed out his so far contributions in research. i) Developing a framework for understanding the relationship between human intelligence and artificial intelligence for understanding complex human movement features, ii) Understanding how to use interface design to encourage reflection while increasing inter-rater reliability in a complex noisy space, and iii) Creating a standardized approach through iterative design to capture and assess human movement data are the three major contributions he pointed out in the seminar. Later Mr. Zilevu talked about six steps to finding the right advisor. i) Identify potential advisors ii) Consider key qualities iii) Reach out iv) Meet the advisor v) Find a good fit and vi) Watch for a mismatch are the six steps he considered for finding a good advisor.

Correspondingly, he mentioned three points that make a good advisor. 1. Provide students with academic, financial, and personal support needed to excel in graduate school, 2. A positive and encouraging environment that prompts learning skills to make one into a great scientist and 3. Maximizing one's potential and genuinely caring are the three points that can make a good advisor believed by Mr. Zilevu.

In the seminar, Mr. Zilevu also talked about securing internships and full-time jobs. He thinks seeking out researchers in Career Fairs, LinkedIn, Conferences is a must. Another very important assistance comes from referrals that can come from professors, LinkedIn or from personal networks.

Mr. Zilevu presented a very interesting and informative seminar. He talked about the ways that can help find internships and jobs which I think is very much important. Also, he pointed out the key points to being a good researcher. I think this seminar is very much helpful for the grad students.