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Jalynn Nicoly

EDUCATION

Doctor of Philosophy - *Computer Science*

University of Colorado Boulder (CU)   Expected May 2029

Bachelor of Science - *Computer Science*   GPA 3.65

Colorado State University (CSU) '24

Dean List Representative Fall 2020, 2021, and Spring 2022

RESEARCH

CU Research Assistant - *Leanne Hirshfield, Ph.D., System-Human Interaction with NIRS and EEG Lab*

May 20th, 2024 - Present

- Continuing my education in my Ph.D. program, I began working with Leanne Hirshfield, who specializes in brain signal measurement fNIRS, which I hope to include in my future projects alongside virtual/augmented reality.
- Committing my time over the summer to the NAVY-funded project where we are observing cognitive load manipulation within virtual reality, to which I am contributing environment edits and working with the Lab Streaming Layer (LSL).

CSU Research Assistant - *Francisco Ortega, Ph.D., Natural User Interaction Lab*

May 16th, 2022 - May 17th, 2024

- Contributing to multiple projects, starting with the virtual reality forest, where I ran experiments to observe whether certain features influenced stress reduction in participants, and later writing a paper currently pending submission.
- Enhancing my software skills in Unreal Engine 4 and 5 and Unity, designing multiple applications alongside endless literature reviews, and increasing my knowledge in several fields, including virtual cues, cognitive load, and immersion.

DREU Research Assistant - *Angelique Taylor, Ph.D., Artificial Intelligence & Robotics Lab*

May 22nd, 2023 - December 22nd, 2023

- Ambitiously moved to New York City for a summer to work at Cornell Tech for ten weeks designing a virtual augmented reality environment using Unity while communicating weekly updates and transcribing hospital simulation training.
- Dedicate my efforts to crafting a high-quality virtual application that allows intuitive interactions with healthcare providers as they enhance their collaboration and task management with virtual icons in a resuscitation setting.

CSU Research Assistant - *Matthew Rhodes, Ph.D., Memory Metacognitive Lab*

January 19th, 2021 - December 17th, 2021

- Motivated as a second-semester college freshman, I became a lab member, participating in weekly meetings discussing graduate school, reading related articles, and performing short presentations on such articles.
- Entrusted to walk participants through an arithmetic experiment, later informing coworkers of any problems and how well the experiments were going during our weekly meetings, where I was also introduced to programming in R.

RELEVANT WORK EXPERIENCE

Computer Science Lead Teaching Assistant (TA) - *CSU Computer Science Department*

January 18th, 2022 - May 15th, 2023

- Influenced to become a TA for the same course that convinced me to change my major, where I was a primary teacher for Java and Python labs, consistently answering questions about the coding languages or guiding how to debug.
- Transitioned to a lead TA position for the same introductory course, which included designing other TA schedules, which I have already done for the summer session, revamping Java coding labs, and running meetings.

Cyber Security Teaching Assistant - *MIT Lincoln Laboratory Beaver Works Center*

October 15th, 2022 - December 17th, 2022

- Pursuing teaching cybersecurity topics during weekends to help students develop leadership and group skills by consistently prompting them to work and ask other group members while I took documentation on their skill growth.
- Passionate about working alongside MIT's Lincoln Laboratory to get a better insight into their mission and their response to student concerns in preparation for my desire to intern within a National Laboratory.

EXTRA-CURRICULAR ACTIVITIES

President - *Association of Computing Machinery for Women*

January 24th, 2022 - May 10th, 2024

- Participated as a member and then as secretary to network with women in computer science and attend events.
- Acquired my current position with consistent reliability to organize events and foster a thriving community.