HALEY GREEN

hng9vf@virginia.edu
+1(540)312-3951
151 Engineer's Way, Charlottesville, Virginia 22903, USA

EDUCATION

University of Virginia — Charlottesville, Virginia
Ph.D. in Computer Engineering — *August 2020 - Present*

- Advisor: Prof. Tariq Iqbal
- Dissertation Topic: Real-time trust evaluation in human-robot interactions.

Brown University — Providence, Rhode Island
B.S. in Mechanical Engineering — *September 2016 - May 2020*

- Member of Brown University Women's Basketball Team

RESEARCH AND WORK EXPERIENCE

Graduate Research Assistant — Charlottesville, Virginia
Collaborative Robotics Lab — *August 2020 - Present*

- Conducting research on trust calibration in human-robot teams
- Examining mitigation strategies for task failure in a human-robot interaction
- Showcasing projects and robots to the UVA and Charlottesville community

Graduate Student Member — Charlottesville, Virginia
Link Lab — *August 2020 - Present*

- Receiving hands-on, testbed-driven cyber-physical systems experience
- Attending in various recruitment and professional development events
- Engaging with student researchers in the multidisciplinary, cyber-physical systems research center

Undergraduate Teaching Assistant — Providence, Rhode Island
Course: Advanced Fluid Mechanics — *January 2020 - May 2020*

- Mentored a group on designing a self-propelled helical robot swimmer
- Organized weekly meetings to keep the project on track
- Served as a liaison between research group and faculty

Integer Holdings — Salem, Virginia
Mechanical Engineering Intern — *June 2019 - August 2019*

- Created SolidWorks CAD (computer-aided design) drawings and utilized 3D printer
- Collected and analyzed data for a variety of process improvement tests
- Collaborated with a small team on revitalizing safety standards for handling hydrofluoric acid

Klöckner Pentaplast — Rural Retreat, Virginia
Mechanical Engineering Intern — *May 2018 - August 2018*

- Generated AutoCAD designs for parts to improve manufacturing process
- Implemented a filtration system for the O.C.S. (Optical Controls Systems) cameras
- Experimented with various sensors on measuring roller gap to improve film thickness consistency

PUBLICATIONS

[1] **H. Green**, M. M. Islam, S. Ali, and T. Iqbal, "iSpy a Humorous Robot: Evaluating the Perceptions of Humor Types in a Robot Partner," *Proceedings of The Artificial Intelligence for Human-Robot Interaction (AI-HRI) Symposium at AAAI Fall Symposium Series (AAAI-FSS)*, 2021. *Under Review.*

[2] **H. Green**, M. M. Islam, S. Ali, and T. Iqbal, "Who's Laughing NAO? Examining Perceptions of Failure in a Humorous Robot Partner," *ACM/IEEE International Conference on Human-Robot Interaction (HRI)*, 2022. *Under Review.*

AWARDS AND SCHOLARSHIPS

· UVA Engineering Distinguished Fellowship *August 2020*
· National Science Foundation Research Traineeship (NRT) *August 2021*

GRADUATE COURSES

· Computer Engineering Perspectives
· Computer Architecture
· Communication, Test-Beds and Policy
· Formal Methods, Safety, and Security
· Robots and Humans
· Signal Processing, Machine Learning, and Control

SELECTED PROJECTS

Guess Who? Charlottesville, Virginia
Course: Robots and Humans *January 2021 - May 2021*

· Created a playable game of Guess Who? between Nao and a human player.
· Explored the relationship between player enjoyment and relative game proficiency

An Optimal Real-Time Interaction Model of Robotic Pet Charlottesville, Virginia
Course: Formal Methods, Safety, and Security *January 2021 - May 2021*

· Designed a set of safety, security, improvement, and system requirements.
· Implemented a set of realistic and elevated behaviors.

Timeloop/Accelergy for Evaluating DNN Hardware Acceleration Charlottesville, Virginia
Course: Computer Architecture *August 2020 - November 2020*

· Used the tools Timeloop and Accelergy to analyze DNN accelerators for different deep learning tasks.
· Replicated the results of MIT's Timeloop/Accelergy workshop.

SKILLS

Robotics:
· Choregraphe
· ROS

Computer Skills:
· Programming Languages: C, C++, Python, Java
· Statistical Analysis: IBM SPSS
· Other: Matlab, LaTex, UNIX/Linux, Amazon Mechanical Turk

Computer-Aided Design:

· SolidWorks
· AutoCAD
· Photoshop
· Illustrator

PROFESSIONAL SERVICES

Presenter: Link Lab Year-Opening Poster Session, CURE Symposium
Reviewer: AI-HRI, EngineerGirl, VSSEF
Tutor: Calculus, Programming
Mentor: University of Virginia, Brown University