Socially Assistive Robots Used as Therapy Tool for Children With ASD
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Introduction
Definitions:
ASD: Autism Spectrum Disorder
SAR: Socially Assistive Robotics

Meet Kiwi the Robot! In Dr. Maja Mataric’s robotics laboratory, SAR is used as a therapy tool for children with ASD by interacting with them socially. To make the research data gathering kid-friendly, an endearing robot – pictured in Fig. 1 to the right – plays the role of an alien that requires assistance in the form of engaging puzzle games.

Skills Learned
My lab mate Bryan Pyo and I worked closely with:
• the terminal
• ELAN
• GitHub
• ROS
• Amazon Poly

Through these programs I’ve learned:
• how to utilize online resources
• the importance of data
• persistence
• independence
• responsibility
• patience

Outside the lab I’ve learned:
• the large world of research
• the significance of having a purpose
• the shocking reality of the “imposter syndrome”

Relation Between Lab Work and STEM Coursework
The lab:
• requires more responsibility
• allows for freedom/flexibility
• applies learned knowledge and skills
• has a clear and meaningful purpose

What I’ve learned in the lab can be applied to:
• my future computer science courses
• managing the robotics club I am founder and president to
• personal robotics, CS, and/or programming projects

Advice for Future SHINE Students and My Future
Firstly, congratulations for your achievement! My advice is don’t be scared. You will be exposed to a lot of complicated material that you might not understand but it’s okay, no one expects you to! So instead, please enjoy and take advantage of the many resources you have. Be as social as you can and learn as much as you can.

As a rising senior I will be applying to universities starting in November. SHINE has made me more confident in my own abilities and what is to come in my academic future. My goal is to earn a PhD in mathematics and incorporate that into the worlds of CS and research. I also plan to support organizations such as TELACU in hope that they will continue to allow communities like mine to access these resources like they did for me.

Acknowledgements
My sincerest thank you to:
• Dr. Katie Mills
• Dr. Maja Mataric
• Caitlyn Clabaugh
• Zhonghao Shi
• Thomas Groechel
• Dr. Herold
• Nathan “The Doorman”
• Daniel Urias
• TELACU Upward Bound
• Patrick Valdez

I would not have survived this summer without all your guidance. Thank you for being my mentors throughout SHINE!