

LUZZI, ERICA122 Columbia Street, Cambridge, MA | 973-525-9356 | eluzzi15@gmail.com**EDUCATION**

Tufts University, Cum Laude
 Major: Cognitive and Brain Sciences
 Minors: Computer Science, English

PROGRAMMING SKILLS

- C
- C++
- R
- Python
- SPSS
- JavaScript
- HTML
- PHP
- Unix
- Assembly Language

PROJECTS

Capstone Research Project: Eye contact and joint attention induce inter-subject EEG synchrony and prosociality
 September – May 2019

- Conducted literature review on EEG synchrony and prosociality
- Defined hypotheses
- Designed study protocol and stimuli
- Wrote study script
- Wrote consent forms
- Wrote debriefing forms
- Created live and post-study coding sheets
- Created Qualtrics survey
- Wrote IRB proposal and modification form
- Applied for undergraduate research grants
- Kept track of grant money through an invoice
- Recruited subjects through flyer distribution and the Tufts University Sona Systems pool
- Worked with BrainCo to receive a loan of two EEG headbands and router
- Scheduled participants
- Created email templates for study reminders and information
- Ran pilot trials and actual trials
- Organized study data and participant information
- Processed EEG data using Python and MatLab
- Ran statistical analyses using Qualtrics and Excel
- Created and presented scientific poster

EXPERIENCE

MIT Media Lab, Cambridge, MA
 September 2019 – Present

Research Guide

- Gave tours of the Media Lab and explained current research projects
- Created tour agendas
- Scheduled research demos for visitors
- Inputted and organized data in Salesforce
- Created a Member Engagement Report using Salesforce data regarding a member's collaboration history at the Media Lab
- Managed tour requests
- Ran Salesforce report of research initiatives analyzing the following data
 - Number of research demos presented
 - Number of meetings with member companies
 - Number of active collaboration contracts

- Number of donations received
- Created spreadsheet with key information on each member company
- Wrote job posting for Data Analyst position open to Northeastern co-op students
- Updated spreadsheet of twitter handles of member companies
- Managed guest list for Member Event (3 day conference)
- Ordered and set up catering

BrainCo, Somerville, MA

June 2019 – August 2019

Neuroscience Research Assistant

- Conducted background research on ADHD neurofeedback treatment
- Researched outcome measures and their scoring sheets for ADHD
- Researched quality of life surveys for adults
- Researched ADHD summer camps, schools, magazines, and online communities as potential recruitment sites
- Created email template for reaching out to organizations asking to inform them about the study
- Created email template for reaching out to parents to inform them about the study
- Worked with developers to improve software for neurofeedback games
- Wrote consent forms
- Created attention training logs
- Created and posted flyers
- Created newsletter banner study announcements
- Created secure participant information database
- Created script for tips for relaxation and focus during neurofeedback
- Created study survey interest form
- Created phone screening script
- Wrote instruction manual for participants to complete assessments and training at home
- Made participant progress tracking sheet
- Called participants and ran phone screens
- Ran demo and presentation for Yale summer high school students at Yale Explo Summer Programs
- Created a demo of relaxation sounds for neurofeedback
- Recorded voiceover for attention training games
- Sent out and tracked packages containing study equipment
- Answered participant questions via study help line
- Tracked participant progress
- Managed participants' STAR reading assessment and IVA-2 assessment results

Boston College Cooperation Lab, Chestnut Hill, MA

June 2018 – August 2018

Research Assistant

- Reviewed research on honesty, trust and forgiveness in 5-10 year olds
- Reviewed and updated study protocol for study on honesty and forgiveness
- Wrote and updated study script
- Designed and produced stimuli
- Acted as first experimenter for study on honesty and forgiveness
- Acted as second experimenter for study on prisoner's dilemma
- Affectively coded video data of a completed study
- Organized and scanned consent forms
- Organized and inputted data using Excel
- Recruited participants in public spaces and using Filemaker-Pro
- Educated the public about psychological research studies
- Worked with parents and children ages 4-10 participating in studies
- Created live and offline coding sheets
- Analyzed pilot data in order to modify study design
- Presented pilot data at lab meeting

BrainCo, Somerville, MA

June 2017 – June 2018

Research Assistant

- Conducted literature reviews on EEG and its applications for education, meditation neurofeedback, attention and relaxation training, and ADHD treatment
- Wrote IRB proposals
- Wrote FDA approval applications
- Wrote award nominations
- Wrote grant proposals
- Designed and ran data collection studies
- Analyzed EEG data
- Worked at company booth at the 2018 Consumer Electronics Show
- Ran demos
- Informed the public about EEG
- Networked with potential collaborators
- Reached out to local schools to collaborate on pilot studies
- Contacted technology journalists

Tufts University Psychology Department, Medford, MA December 2017-January 2018

Research Assistant

- Conducted literature review on nonmusical rhythmic-processing and its effect on reading and literacy outcomes
- Proofread papers

Tufts University Human-Robotic Interaction Lab, Medford, MA May 2016-May 2017

Research Assistant

- Conducted literature review on object affordances
- Wrote IRB proposal
- Designed study on context-aware object affordance perception
- Recruited subjects through Amazon Mechanical Turk
- Wrote Mechanical Turk study pages using HTML, JavaScript, and PHP

PRESENTATIONS

Luzzi, E. (May 2019) *The Humanity Behind Robotics*. Presented to the Mountain Lakes High School and Briarcliff Middle School Robotics Clubs.

Luzzi, E. (May 2019) *The Relationship Between Neural Synchrony and Prosocial Feelings Towards Partner*. Presented at the Tufts University Cognitive and Brain Sciences final poster session.

Luzzi, E. (March 2019) *Eye Contact and Social Dynamics Using EEG*. Presented to the Tufts University Cognitive and Brain Sciences Senior Seminar.

Liu, S. & Luzzi, E. (August, 2018). *Virtue Task Battery*. Presented at the Boston College Cooperation Lab, Language Learning Lab, and Infant Child Cognition Lab's joint lab meeting.

ACTIVITIES

Tufts Wilderness Orientation

January 2017 – May 2019

Leader

- Completed Wilderness First Aid and CPR certifications
- Trained and developed technical wilderness and interpersonal skills
- Led 5-day backpacking trips for incoming first year students and met with the group weekly throughout the year

Enigma: Tufts Independent Data Journal

January 2017 – May 2019

Member

- Collected and analyzed data on body perception among Tufts students
- Analyzed data from Tufts Daily newspaper archives
- Attended data science workshops
- Presented data and wrote articles

Tufts Public Harmony

September 2018 – May 2019

Member

- Served the Greater Boston area by connecting with community organizations through uplifting musical performances

WMFO Tufts Freeform Radio

January 2016 – May 2019

Student DJ

- Hosted a weekly radio show