yasmeen hmaidan

github.com/YasPHP
linkedin.com/yasmeen
yasmeenbrain
yasmeenbrain.com
yasmeenbrain@hotmail.com

EDUCATION

University of Toronto
Psychology, Computer Science
Honours Bachelor of Science
Sept 2019 - Jun 2024

SKILLS

Languages:
Python, Matlab, Java, Javascript, MaxMSP, R, Jamovi
Libraries:
Pandas, Numpy, Keras, TensorFlow, OpenCV, Pylsl, Matplot
Tools:
Git, Jupyter Notebook, Figma
Soft Skills:
Science Communication, Blogs

COURSEWORK

Data Structures, Algorithms
Object-Oriented Programming
Discrete Mathematics
Calculus I/II
Software Design
Neuroscience, Psychology
Biology and Genetics
Research Data Statistics

ACTIVITIES

Host of the Student Spotlight Podcast (1000 EP downloads)
Polyglot (french, arabic, russian)
Artist, Soprano, and Squash Player

ARTICLES

Guillain-Barré Syndrome Article (IYNA Journal submission)

EXPERIENCE

Applied Perception and Psychophysics Lab May 2023 - Present
Undergraduate Research Student

- Map individual gaze differences in driving scenes with hazards and near-collisions, using the EyeLink 1000 for eye tracking.

MIT Media Lab | Fluid Interfaces Group July 2022 - Present
Brain Computer Interface Student Researcher | Prototyper

- Built a mind-controlled Boston Dynamics robot, powered by EEG glasses, with autonomous navigation and personal assistance for patients with ALS in a readable mobile app.
- Curate art exhibits at the MIT Museum and Boston Cyberarts Gallery for cognitive health and visual attention with BCIs.

BrainBlots | CryBaby Gallery, Vizmesh NYC Mar 2022 - Present
Neurotechnology x AI Artist and Co-Founder

- Mint BCI (Brain-Computer Interface) NFT generated art pieces featuring 200+ people thinking about what they love in 3 cities.
- The 1st BCI art piece on a Times Square Billboard in NFT NYC.

Health Adaptation Research on Trauma Lab Sept 2022 - Dec 2022
Undergraduate Research Student | UofT Horticultural Therapy Project

- Created a pilot program aimed at physical and mental well-being with nature-based activities at a local greenhouse.

NeurotechxUofT Nov 2021 - Sep 2022
Neural Interface Product Designer and EEG Research Engineer

- Designed an SSVEP/P300 speller interface for paralysis patients.
- Used linear discriminant analysis, fast fourier transforms, ERP epochs, and feature extraction for brain signal processing.

The Fukuda Lab for Cognitive Science Jan 2021 - Sept 2021
Undergraduate Research Assistant

- Ran memory experiments in stimulus-response-feedback (SRFB) mapping to determine learning attention and focus.

Continuum Robotics Laboratory Mar 2021 - Aug 2021
Computer Vision Researcher | UofT Robotics Institute

- Implemented motion/shape algorithms for tendon-driven continuum robots used in neurosurgery with >90% accuracy.