Manuel Paez

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Education

Columbia University - New York, NY — Sept. 2019 - Expected May 2023

Bachelor of Arts, Computer Science; 3.3 GPA; Student Organizations: NeuroTechx, Undergraduate Math Society
Courses: Theoretical Neuroscience, Accelerated Physics, Natural Artificial Neural Networks, Intro to Quantum Computing

Phillips Exeter Academy - Exeter, NH — Sept. 2017 - Jun. 2019

High School Diploma; 3.54 GPA; Student Organizations: Robotics Club, Math Club, Physics Club, Puzzle Club
Courses: Advanced Physics, Quantum Mechanics, Advanced German I, History Research Project

Research Experience

Research Assistant - Dept. of Psychiatry, Columbia, Iigaya Labs — Apr. 2022 - Aug. 2022

PI: Kiyohito Iigaya; researching the Neural Geometry of Context-Dependent Tasks in the Brain using Neural Networks

Research Intern - Flatiron Institute, Chklovskii Group — Sept. 2022 - Present

PI: Mitya Chklovskii; researching on improving Neuron-Segmentation Algorithms for Connectomics of Wasp Brain

Research Assistant - Dept. of Physics, Columbia, Marka Labs — Oct. 2022 - Present

PI: Szabolcs Márka; researching on Quantum Algorithmic-AI implementations for Gravitational-Wave, Blackhole Collisions Search

Community Involvement

Exeter Social Services Club (ESSO) Robotics — Sept. 2017 - Apr. 2019

I taught children computer programming, cooperation, and critical thinking skills for building robots

Scientific Mentorship Institute (Sci-Mi) — May 2022 - Aug. 2022

Tutor and mentor for underprivileged high school students in the areas of Computer Science and Neuroscience

Awards

United States International Young Physicist Tournament (USIYPT) - 1st place — Feb. 2018
United States International Young Physicist Tournament (USIYPT) - 1st place — Jan. 2019
Simon Foundation Global Brain SURF Fellowship — Sept. 2022

Skills and Interests

Computer Languages: Python, Java, C, C++, R, MATLAB
Other Computer Skills: Qiskit, Quantum Tensorflow, Cirq, Keras and Tensorflow
Natural Languages: English (Fluent), German (Fluent), Spanish (Fluent), Korean (intermediate), French (intermediate)
Research Interests: Quantum Algorithms-AI, Quantum Cryptography, Neuro-inspired AI, Algebraic Topology
Hobbies: Traveling, engaging with the Arts (Galleries, Symphonies, Piano, Opera), Cafés, and watching Bayern Munich