

Mariano Andres Garcia III

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EDUCATION

Columbia University in the City of New York

New York, NY

Bachelor of Science in Biomedical Engineering

May 2022

Dean's List: Fall 2021, Spring 2022 | Multicultural Affairs Graduation Cord Recipient

Extracurricular Affiliations: Columbia University Casa Latina (Resident), Columbia University Chapter of the Society of Hispanic Professional Engineers, Columbia Biomedical Engineering Society

PROFESSIONAL EXPERIENCE

Human Health & Performance (HH&P), NASA Johnson Space Center (JSC)

Houston, TX

Crew Health Care System (CHeCS) Management Integrator (40-50 hrs/week)

May 2022 - Present

- Develop and maintain advanced tools to assess and project on-orbit hardware resupply needs. Conduct in-depth analyses of production, supply chain, and operations data to facilitate data-driven decision-making.
- Deliver technical project management for the development of EveryWear, a multilateral iPadOS software project with the European Space Agency and French Space Agency intended to replace aging CHeCS software.
- Resolve operational challenges as they arise and implement effective solutions while considering stakeholder input and needs.
- Proactively capture best practices and manage organizational knowledge, facilitating continuous improvement.

Columbia University Athletics

New York, NY

Athletic Events Assistant (Work-Study; 5-10 hrs/week)

October 2021 – March 2022

- Balanced score-keeping verification and tallying, as well as athlete in-game actions, at a mix of sporting events.

Antonio's Italian Grill

Deer Park, TX

Restaurant Server (15-25 hrs/week)

February 2021 – July 2021

- Maintained awareness of assigned customer experiences and delivered exceptional service to guests.

Community Impact – Columbia University

New York, NY

ESL/GED Programs Student Coordinator (Work-Study; 10-15 hrs/week)

September 2019 – March 2020

- Assisted program directors with class preparation for instructors and as an instructor when needed.
- Responded to student inquiries via phone and email.

LULAC National Educational Service Centers (LNESEC)

Houston, TX

Upward Bound Math & Science Senior Intern (40 hrs/week, summers only)

June 2019 – August 2021

- Oversaw and trained a team of 4 interns in driving a STEM-enrichment summer program for 30-40 underserved high school students each summer.
- Developed curriculum for and instructed a wide-ranging *Topics in STEM* course for 30-40 students.
- Advised students in the college admissions process and introduced students to the depth of material covered in post-secondary STEM coursework.
- Prepared official memoranda for program debriefs to the LNESEC Headquarters in Washington, D.C.

Project GRAD Houston

Houston, TX

Project GRAD SAT Preparation Tutor (10-15 hrs/week)

June 2019 – August 2019

- Led no-cost, tailored SAT preparation classes for groups of students ranging in size from 5 to 15 students, with guidance from professional test preparation services.
- Coordinated curriculum and instruction, as well as periodic updates, with the Office of Harris County Precinct 2 Commissioner Adrian Garcia.

LEADERSHIP, EXTRACURRICULARS, AND COMMUNITY INVOLVEMENT

Leadership for Educational Equity (LEE)

December 2022 – Present

Affiliate Member in Pasadena, TX

(3-8 hrs/week)

- Serve as a local liaison to LEE's Director for Regional Impact in Houston, TX.
- Develop and integrate community ideas into actions through the Pasadena Southeast Advocacy Team (SEAT).
 - Elevate and empower community voices to strategically advocate for long-term improvements to student educational outcomes in Pasadena ISD.

NASA JSC Hispanic Employee Resource Group (HERG)

December 2022 – Present

Membership Secretary, Subcommittee Lead for Employee Engagement and Community Outreach

(5-10 hrs/week)

- Plan HERG general body meetings and socials. Jointly led Hispanic Heritage Month 2023 efforts.
- Connect HERG with local school districts and the Houston community beyond JSC for collaborative educational programming.

Pasadena ISD School Board of Trustees

January 2023 – May 2023

Public Office Candidate for Board Position 6, Community Member and Advocate

(30-40 hrs/week)

- Launched a political campaign against an incumbent of 34 years and came within 3.4% of the total vote from winning; earned over 2,500 votes.
 - Canvassed several thousands of doors across Pasadena ISD and locally fundraised nearly \$15,000 for a fiscally solid campaign.
 - Collaborated with professional campaign advisors from Leadership for Educational Equity (LEE).

The Columbia Mentoring Initiative (CMI)—Latinx Family Tree

September 2018 – May 2022

Co-Chair, Former Mentor, Former Mentee

(10-15 hrs/week)

- Produced vibrant programming for the CMI community with a budget of approximately \$1,000.

Chicanx Caucus, Columbia University

September 2018 – May 2022

Treasurer and General Member

(5-10 hrs/week)

- Managed a student group allocation of approximately \$4,500 for the academic year.

PRESENTATIONS AND PUBLICATIONS

The Texas Tribune, TribTalk, Summer 2019

- Published an essay on the accessibility of public education dual-language programs following a contemporary rise in the popularity of the offering. ([Link](#))

Columbia Engineering Senior Design Expo 2022: deSTigma

- Designed a website with a diagnostic screening questionnaire that increases individual awareness of sexually transmitted infection (STI) risk to promote a greater understanding of STIs and reduce their transmission in at-risk communities and individuals. ([Link](#))

SKILLS AND INTERESTS

Skills: Spanish (Native), Technical Project Management

Interests: Community Organizing (Public Education & Youth Engagement), Reading (Autobiography, Psychology, Business), Running, Biking, Negotiation, Mediation