

CURRICULUM VITAE

Massaro Ochoa

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EDUCATION

Texas A&M University, College Station, Texas May 2025
Bachelor of Arts and Master of Arts in Philosophy (3+2 MA Accelerated Program)

Study Abroad: Cornell University - Cornell Law School & Sorbonne Université July 2023
Cornell-Paris 1 Summer Institute Program, Paris, France

RESEARCH EXPERIENCE

Human Bio-Behavioral Signals Lab – Theodora Chaspari, Texas A&M University Department of Computer Science & Engineering

NASA Behavioral Health & Performance Laboratory Human Health and Performance Contract – Ala Khader & Sydney Begerowski, Human Exploration Research Analog (HERA)

Research Assistant & Behavioral Code Reviewer May 2022 – June 2023

- Worked with NASA to understand teamwork and how relationships are built across crew members.
- Identified nuanced behavioral patterns that affect team dynamics and mission success.
- Understood how teamwork and relationships are built across crew members.
- Coded team interactions from crews in the Human Exploration Research Analog (HERA) simulated habitat

Understanding the effects of food policies on sustainability – Grace Melo, Texas A&M University Department of Agriculture Economics

Research Assistant May 2022 – Aug 2022

- Conducted literature reviews.
- Evaluated the effects of changes in demand on environmental and sustainable indicators.
- Researched and assigned micronutrient data everyday food consumption.
- Researched how much CO₂/100g does every day specific food release and assigned said values to create a data list.
- Learned how to conduct analysis of national survey data.

The Moral Development Lab – Allegra Midgette, Texas A&M University Department of Psychological and Brain Sciences

Research Assistant Nov 2021 – Dec 2022

- Analyzing in-depth interviews in Mandarin, Chinese, Korean, and English.
- Recruiting children and families to participate in studies.
- Reviewed behavioral video data content from study interviews which was then coded in a qualitatively form to create a schema.
- Conducted literature study reviews.

A Portable Platform Enables On-Site Rapid and Sensitive Detection of Airborne Bacteria and Viruses in Aerosol Samples Using Droplet - Based Isothermal Amplification – Arum Han, Texas A&M University Department of Electrical and Computer Engineering

Hardware Research Assistant Aug 2021 – May 2022

- Worked with a multidisciplinary group of faculties and research staff to develop a portable and sensitive airborne pathogen detection technologies that can be deployed for on-site monitoring.
- Specifically worked on the hardware side of the project that controls and regulates the temperature control module (PID control Controller) using and coding an Arduino microcontroller.
- Learned and performed soldering on wires and board.

The Problems of God and Evil – Benjamin Helyer & David Anderson, Texas A&M University

Department of Philosophy

Research Assistant

Aug 2020 – Dec 2020

- Collaboration with the Thomistic Institute at Texas A&M University to probe perspective and analyze text samples of Thomas Aquinas as well as other medieval and contemporary Roman Catholic Philosophers.
- Examined the so-called Problem(s) of evil from a natural, moral, and epistemological perspective.
- Conveyed ideas and engaged in serious discussion in existential problems of suffering that all humans face within the research-intensive community.

INTERNSHIPS

Latino/a & Mexican American Studies (LMAS), Texas A&M University, College of Arts & Sciences, Department of Sociology

Graduate Intern (10 – hours/week)

Apr 2023 – Aug 2023

- Responsibilities included handling LMAS social media.
- Creating presentations about LMAS to student groups.
- Outreaching, presenting, and creating awareness for groups and clubs not familiar with LMAS.
- Assisting the coordinator in organizing events.

Amazon, El Paso, TX

Area Manager Intern (40 – hours/week)

June 2023 – July 2023

- Coached, managed, and developed a team of 50-200 amazon associates in a distribution warehouse environment.
- Learned and focused on how to motivate, mentor, and manage my team.
- Developed a summer project in partnership with my onsite leadership.
- Created, managed, and supported recognition programs.
- Partnered with management team to establish and maintain quality control standards.

HardwareNXT, Virtual - Internship

Member

Jun 2021– Aug 2021

- Learned how to understand and utilize CAD, Materials Science, Manufacturing Methods, Injecting Molding, Product Design Features, DFM & DFA, Product teardown, Analysis and Reliability, and Validation and Testing.
- Used learned knowledge to create CAD models for product that solves a healthcare issue through the Product Development Process.

Texas A&M University AggieSat Laboratory, College Station, TX

Student Technician & Space Systems Lead Engineer

Jun 2020 – Aug 2020 | May 2022 – Aug 2023

- Focused on continuing design work and documentation through simulation and analysis to prepare for the SmallSat Conference in August and Critical Design Review deliverables for the University Nanosatellite Program (UNP) administered by the Air Force Office of Scientific Research (AFOSR), the Air Force Research Laboratory (AFRL), the American Institute of Aeronautics and Astronautics (AIAA), the Space Development and Test Wing which the programs objective (UNP) aims to train tomorrows space professionals by providing a rigorous two year concept to flight-ready spacecraft competition for U.S. higher education institutions and to enable small satellite research and development (R&D), integration and flight test.

Nift Networks, College Station, TX

Sales Marketing Intern

Oct 2019– Jan 2020

- Contacted decision makers to promote Nift Networks business plan whilst practicing strategic marketing, promotional, market research and persuading skills for the Nift Customer acquisition program for small business owners.

RELATED EXPERIENCE

E-Scooter Technician, College Station, TX

Part time (16- hours/week)

Oct 2022 – Dec 2023

- Related experience in being physically active and faced paced environments frequently on floor warehouse, manufacturing, and delivery.
- Located, swapped batteries, rebalanced vehicles to high demand areas, performed quality checks and minor repairs on vehicles.
- Maintained and continually improved the efficiency of Veo's fleet operations.
- Lifted and moved items up to 60 pounds.

AggieSat Laboratory, Texas A&M University Department of Aerospace Engineering

Helped Develop AggieSat6 as the entire projects Space Systems Lead Engineer Sep 2019 – Jan 2023

- Drafted and developed important documents: Systems Level Monitoring of Health Test Procedures & Results, Systems Level Restart Verification Test Procedures & Results, Systems Level Listener Collection Test Procedures & Results, The Day in the Lifetime Test, Fault Detection Isolation and Recovery Test, Requirements Verification Matrix, State of Health Field, Dashboard, Master Equipment List, Command Execution Test, Mission Concept Design and State Machine Breakdown
- Experience in system engineering, design, analysis, and testing space vehicle systems while preparing and finalizing systems documents for: Preliminary Design Review, Critical Design Review, Flight Selection Review, and Deep Dive Review for The University Satellite Program, a federally funded program by the Air Force of Scientific Research and managed from the Air Force Research Laboratory Space Vehicles Directorate.

Park West Apartments Complex, College Station, TX

Community Assistant

Jan 2022 – Apr 2022

- Demonstrated commitment to diversity and social justice.
- Commitment to furthering educational and social opportunities related to residence life while providing support to reach personal and educational goals to residents.
- Commitment to responsibilities and conducive in a team environment.
- Experience in leasing and marketing apartments.
- Work with management to create and maintain a resident community that is conducive to living and learning by maintaining student success programming through planning events that are within budget.
- Assist with move-in and move-out preparations through administrative, operations, and maintenance.
- Assist with basic maintenance tasks and respond to lock outs after hours (if required) alongside with preventative maintenance as set forth by the management team.
- Provide a positive peer mentor relationship with residents to create a community environment while also maintaining a confidential relationship between employees and residents.
- Assisted with social media and documentation of community programs.
- Work with the Resident Director to maintain proper records for all resident's student status.

White Creek Apartments at Texas A&M University, College Station, Texas

Resident Advisor

Jan 2021 – Present

- Served as a communication link between residents and the Department of Residence Life Staff by completing check-ins with new residents and welcoming them to complexes as well as conducting follow ups to new residents.
- Remained as the Resident Advisor on call after hours to help residents in afterhours issues.
- Completed room inspections prior to opening alongside helping residents' check-outs during move out season.
- Responded to emergencies, complaints, security problems, lockouts after hours, and other resident needs as prescribed by the Resident Manager or Assistant Director of Residence life whilst promoting and supporting Texas A&M's philosophies and policies alongside attending programs offered at the White Creek Activity Center.
- Knowledgeable on and supports University Apartments policies and regulations; responds and reports violations in MAXIENT whilst submitting and following up on Person of Concern reports, Facilities/maintenance issues and reports in the facilities module in StarRez.
- Attended Community council meetings and worked with council officers in the development and implementation of at least 8 programs to meet residents' diverse needs and collected and distributed flyers, newsletter, etc. in the complex as required by the Resident Manager/GARM.
- Maintained and formed a sense of peer mentor relationships with residents to better suit and help resident's needs.
- Worked to develop a feeling of group responsibility and diverse community among residents to include promoting a sense of pride and ownership for the living area.

HowdyHack, Texas A&M University

Member (24-hour challenge)

Sep 2020

- Deciphered crypted messages and puzzles made by the organization.
- Developed a video game from scratch using java.
- Created graphics using photoshop for our video game.

The Engineering Incubator, Texas A&M University College of Engineering

Team Lead (10-hours/week)

Aug 2020 – Dec 2020

- Mitigated financial risk involved in early ventures for a startup idea.
- Networked with individuals who have experience in startups and running businesses from the ground up.
- Built and created a viable prototype, business models, internal structural business analysis, and researching.

I-CORPS National Science Foundation, Texas A&M University

Team Lead (5-hours/week)

Jul 2020 – Aug 2020

- Developed a Value Proposition statement for an innovative idea regarding Space Based Solar Power while analyzing, identifying, and researching market segments for space exploration and solar power.
- Pursued and interviewed 20 important Subject Matter Experts (SME) management candidates regarding segment industry issues.

NASA L'Space Academy Proposal Writing and Evaluation Experience Academy, Virtual

Systems Engineer

May 2020 – Jan 2021

- Explored new ways of building and redesigning the joint bearings for NASA's Spacesuits.
- Drafted, reviewed, patented, and learned how to score concept proposals that can bring innovative ideas to reality for NASA.

Aggies Invent Competition: SOCOM (United States Special Operation Command), Texas A&M University

Radio Frequency Subject Matter Expert (72-hour challenge)

Nov 2019

- Placed 2nd winner for competition.

- Developed a haptic vest diagram that resolves latency issues between Special Ops Handler and K-9 units within 72 hours.
- Acquire and analyze data from sensors such as a camera that performs Thermal and Night Vision.
- Presented & pitched the idea to Special Operations Command Judges.

PUBLICATIONS

Massaro Ochoa (*ongoing process*). Space Law Through Reinach's Philosophy. *Aletheia*, The Undergraduate Journal of Philosophy at Texas A&M University.

Massaro Ochoa (*ongoing process*). Space Law Through Reinach's Philosophy. *Ex Nihilo*, The Undergraduate Philosophy Association (UPA) at The University of Texas (UT) at Austin.

EXTRACURRICULAR ACTIVITIES

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| Aggies Investment Club , Texas A&M University | Aug 2020 – Jan 2021 |
| <ul style="list-style-type: none"> • In depth and hands on experience on live case studies of investing. | |
| Society of Test Flight Engineers , Texas A&M University | Sep 2019 – Dec 2019 |
| <ul style="list-style-type: none"> • Collaborated in a team to assemble an aircraft. | |
| Aggie Astronaut Corps , Texas A&M University | Sep 2019 – Dec 2019 |
| <ul style="list-style-type: none"> • Learned about Space Operations and how to identify different planetary geographic terrains with technological writings. | |
| Startup Aggiland , Texas A&M University | Aug 2019 – Dec 2019 |
| <ul style="list-style-type: none"> • Learned about what it means to be an entrepreneur and became familiar with the process of turning innovative ideas into viable business opportunities. | |
| The Apprentice Doctor-Medical Chapter (TAD-MC) , Texas A&M University | Jan 2023 – May 2023 |
| <ul style="list-style-type: none"> • Learned over 75+ hours of clinical exposure on campus through internationally accredited and award-winning medical courses, membership certificates, course certifications, practical and theoretical meetings, medical seminars, presentations, and workshops. | |

HONORS

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| • College of Liberal Arts Honors Program | Aug 2019 |
| • Ysleta Education Foundation Scholarship | Aug 2019 |

SKILLS

- Proficient in Fusion 360
- Proficient in Microsoft Office
- C++ / Python/ Java
- Fluent in Spanish (speaking, reading, and writing)
- Excellent verbal and written communication skills
- Carefully and accurately listener
- Outstanding Critical Thinking
- Clear and well-disciplined strategic thinking and analysis
- Excellent persuasive argumentation and think on the spot
- Strong leadership and organizational skills
- Exceptional customer service and resident relation skills
- Brilliant interpersonal skills

- Outstanding Time Management
- Proposal writing