# Pedro A. Perez

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## EDUCATION

**University of California, Los Angeles - Biology B.S.**
September 2018 - June 2022 | Westwood, CA
GPA: 3.783

**West Coast EMT - EMT-B Certification**
June 2020 - September 2020 | Anaheim, CA

**Los Angeles Pierce College (Dual-Enrollment)**
June 2015 - July 2018 | Woodland Hills, CA
GPA: 3.5

**Reseda High School Police Academy - High School Diploma**
August 2014 - June 2018 | Reseda, CA
GPA: 3.71

## RESEARCH EXPERIENCE

**Lohmueller Lab - UCLA Department of Ecology and Evolutionary Biology**
June 2021 - Present | Westwood, CA
Project Summary:

- Use a population genetics approach to analyze the impact of demographic history on the genomic recombination rates of wolves and domesticated dogs.

Responsibilities:

- Use the population genetics programs msprime, SMC ++, and pyrho to simulate random ancestral histories, demographic histories, and genomic recombination rates for 280 dog and wolf populations
- Use R to perform data analysis and create graphics, plots, and data charts
- Led 24 journal clubs and created an annotated bibliography for relevant scientific literature.

## CLINICAL EXPERIENCE

**In-Home Caregiver - EMT**
May 2022 – Present | Studio City, CA
Responsibilities:

- Medication management
- Assist with ambulation
- Assist patient with physical therapy regiment
- Patient transportation
- Assist patient with daily activities

**Valley Presbyterian Hospital - Emergency Room Volunteer**
November 2018 – Present | Van Nuys, CA
Responsibilities:

- Shadow nurses during patient care
- Organize hospital beds, medical equipment, supply carts, and stock rooms.
- Escort patients to their designated rooms.
- Retrieve medication and meals for patients at the request of a doctor or nurse.
- Discharge patients once they are finished with their visit.
- Retrieve items and supplies for doctors and nurses when needed.

**PULSE UCLA - General Member**
April 2021 – June 2022 | Westwood, CA
Responsibilities:

- Shadow physicians in Psychiatry, Surgery, Renal/Nephrology, Pediatric, and Dermatology Grand Rounds
- Conduct 3 clinical case study presentations
- Meet regularly with physician mentors
- Create a quarterly reflection paper about 3 published medical articles.
- Participate in PULSE outreach events (assisting Alzheimer's patients with UCSB's Brain Exercise Initiative and raising awareness for pediatric cancer with the St. Baldrick's Foundation

**Care Extenders - Volunteer**
November 2019 – September 2021 | Westwood, CA
Responsibilities:
- Greeter activities: assist visitors throughout the hospital, discharge patients, assist nurses, manage the hospital information desk, assist patients to their appointment, assist patients with admissions, create visitor passes, and make deliveries for the gift shop.
- Medical-surgical floor and Medical-ICU activities: patient ambulation, patient transport, observe procedures, answer call lights, resupply crash carts, restock empty rooms, check oxygen tank levels, and inspect equipment.

## LEADERSHIP EXPERIENCE

**Pre-med Community at UCLA - Founder, Co-President, and Peer Mentor**
May 2020 – Present | Westwood, CA
Responsibilities:
- Organize fundraisers and events for an organization of 2000 members
- Appoint committee chairpersons
- Manage partnerships with Kaplan, the Princeton Review, and other organizations
- Fill vacancies in elective and appointive office
- Preside over all meetings of the organization
- Delegate and oversee the tasks of 21 members of the board
- Act as the official representative of the organization
- Manage undergraduate mentorship program with 70 members
- Provide guidance to 8 undergraduate mentees

**Mary Immaculate Catholic Church - Eucharistic Minister**
July 2018 – Present | Arleta, CA
Responsibilities:
- Administer the sacraments of holy communion.
- Provide emotional support to members of the community.

**Reseda High School Police Academy - Cadet Sergeant II - First Seat**
August 2017 – June 2018 | Reseda, CA
Responsibilities:
- Mentor all cadets within or below my grade level as well as other Sergeants and cadets of lower ranks.
- Collaborate with other cadets in leadership positions to organize weekly uniform inspections.
- Speak at weekly leadership meetings.
- Fulfill the role of acting captain or lieutenant of the academy when needed.
- Help discipline cadets and maintain order within the academy.

## COMMUNITY INVOLVEMENT

**LA Sanitation & Environment (LASAN) - Graphic Design Volunteer**
January 2022 – March 2022 | Westwood, CA
Responsibilities:
- Research the behaviors, habitats, diets, and predators of 37 indicator species
- Determine where in Los Angeles City each of the 37 indicator umbrella species could be observed
- Create an official LASAN booklet and a transcript to raise public awareness and interest in Los Angeles City's biodiversity
- Provide feedback on and help organize LASAN social media posts, ARCGis maps, public surveys, and a BioBlitz event

**The California Public Interest Research Group (CALPIRG) - Volunteer**
February 2019 – March 2020 | Los Angeles, CA
Responsibilities:
- Raise environmental awareness through community campaigns.
- Participate in voter registration drives and local research projects.
- Participate in campaigns advocating for reduced textbook pricing

## PRESENTATIONS

**Perez P.A.**, Del Carpio C.A., Cavassim M.I, Lohmueller K.E.. *Evolutionary Patterns of Genomic Recombination Rates in Gray Wolves and the Domestic Dog* | Poster presented at: Society for Advancement of Chicanos/Hispanics & Native Americans in Science (SACNAS); October 2022; San Juan, Puerto Rico
**Perez P.A.**, Del Carpio C.A., Cavassim M.I, Lohmueller K.E.. *Inferring the Evolutionary Genomic Recombination Rates of Gray Wolves and the Domestic Dog* | Poster presented at: UCLA Ecology and Evolutionary Biology Research Symposium & UCLA Undergraduate Research Week; May 2022; Westwood, CA

## AWARDS

UCLA Dean's Prize for Excellence in Research - May 2022
Hispanic Scholarship Fund - December 2021

## SKILLS & ABILITIES

- Bilingual (English/Spanish).
- Computational: Running programs from the command line, shell scripting, cluster usage, scriptwriting in Python and Bash, population genetics simulations (msprime, SMC++, and Pyrho), and data analysis in R
- Novice: Coding (C++).
- Intermediate: Scientific writing, Microsoft Excel, Google Sheets, and Adobe Photoshop.
- Proficient: Microsoft Word, Microsoft PowerPoint, graphic design, Google Slides, Google Docs, and Notable.