



TROY P ANDERSON

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LOS OSOS HIGH SCHOOL | WWW.TROYPANDERSON.COM

WORK EXPERIENCE

12th Grade Summer
40 hrs/week
8 wks/year

RESEARCH ASSISTANT • HAVDRA LAB * CANCER RESEARCH CENTER * DARTMOUTH HITCHCOCK MEDICAL CENTER * DARTMOUTH UNIVERSITY

- Conducted research on Parkinson's Disease alongside PhD students
- Studied the effect of the neuroinflammasome on neuroinflammation
- Independently cultivated cell lines, and performed experiments scanning for the presence of proteins such as IL-1 Beta to analyze the activity of the neuroinflammasome
- Dissected mice to obtain microglial cells from their brain mass
- Ran ELISA tests on BV2 cells to indicate levels of IL-1 Beta to set up controls between various levels of ATP and LPS to later run experiments with ACAT inhibitors used to test the effect of ACAT on cholesterol esters.
- Recorded biomarker data on BV-2 cells
- Created format to analyze different abstracts to predicted results through the use of artificial intelligence engines.

11th – 12th Grades
9 hrs/week
40 wks/year

MATH TUTOR • MATHNASIUM

- Tutor K-10th grade students in all levels of math through IM I
- Teach students new math topics as well as instruction on current homework
- Assess areas of struggle to focus teaching methodologies
- Identify opportunities to excite curiosity and learning within the student
- Organize students' math binders
- Engage students through conversation and intrigue

9th-12th Grades
3 hrs/week
12 wks/year

MEDIA COORDINATOR • SUNDAY RIVER RENTALS

- Create and maintain bookable websites for vacation properties.
- Conducted photography and drone marketing shoots
- Improved marketing photographs utilizing photoshop

COMMUNITY

BOARD MEMBER • Rancho Rebels Youth Rugby Club, 9th-12th Grades

Founding member of the club which now has over 200 registered players. Assist in organization registrations, advertising, and recruitment. Introduce the game of rugby to area youth by teaching it in Phys Ed classes in local middle school. Lead through example with respect and integrity, while providing an athletic program to get youth physically fit while having fun. Regularly compete against the top rugby clubs in the country.

REFEREE • Southern California Youth Rugby, 10th-12th Grades

Active board-certified referee for the largest CA rugby league; often refereeing 5 games in a day as the only referee on the field. Directed for u8, u10, and u12. Communicate with coaches and players before and during games and provide expectations to uphold safety and respect and improvement of play.

COACH • Rancho Rebels Rugby Club, 10th-12th Grades

Coached u8, u10, and u12 youth rugby. Taught the basics of rugby; Advised other coaches on drills that are best suited to teach fundamentals for the game. Engaged with players and led by example through demonstration and participation in the drills.

AWARDS/HONORS

THE PRESIDENT'S VOLUNTEER SERVICE AWARD

Gold PVSA, 11/12th Grade for 250 hours of volunteer service

Gold PVSA, 10/11th Grade for 250 hours of volunteer service

Gold PVSA, 9/10th Grade for 190 hours of volunteer service

NATIONAL FIRST TEAM ALL-AMERICAN • Pop Warner Scholar Program, 7th Grade

Top 35 scholar athlete in the nation out of approx. 400,000 athletes.

EXTRACURRICULAR

PRESIDENT • GRIZZLY RUGBY, 9th-12th grades, 2 hrs/week, 30 wks/yr

Founded rugby club at our high school. Assisted students at area schools to found clubs. old regular meetings to discuss the basics of rugby rules, college scholarship opportunities, fundraise for the rugby team, analyze game play.

CAPTAIN • RANCHO BEARS, 9th-12th grades, 10 hrs/week, 15 wks/yr

Founded high school rugby team (independent of other teams I started); negotiated with the principal of my school; fought for opportunity to use fields at my school; navigated insurance policy issues all the way to the school board; successfully started team with stakeholder approval.

CAPTAIN • JV FOOTBALL, 10th grade, Player 9-10th gr, 8-20 hrs/week, 45 wks/yr

Started on varsity and JV at the same time, playing 2 games/wk. Led JV teammates as captain, stretches before games; discussed strategy with coaches; suggested plays; led by example and gave respect to opponents; inspired teammates' sportsmanlike behavior.

GRAPHIC DESIGNER • Reddit, 9th, 11th, 12th grades, 1 hr/week, 45 wks/yr

Used interest in Photoshop to create unique and humorous images for Reddit; inspiring tens of thousands of likes on the platform.

APP DEVELOPER • 12th grade, 3 hrs/week, 12 wks/yr

Used dart to program in flutter; designed an app with machine learning to scan and recognize text and help and manage users' schedules; Made to publish on the Google Play Store and IOS app store

TRACK RUNNER • 9th,12th Grades

Successfully ran hurdles in 9th gr, placing first at multiple meets for Varsity. Running long distance events in 12th gr.