

Daniel C. Bazan

University of California, Berkeley	Academic	daniel.bzn@berkeley.edu
Neuroscience PhD Program	Personal	danielcbzn@gmail.com
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Current Position

August 2024 - Present	University of California, Berkeley: Neuroscience PhD Program	Graduate student (Ph.D.) PI: Michael Silver
July 2025 - Present	University of California, San Francisco: Lab Member	Team Member PI: Robin Carhart Harris

Background	Education
Research Graduate: 1 year Undergrad: 3 years Post-Bac: 2 years Service Hours ~5000 Working hours during University Degree (30 ~ 50hr/week) Languages English – Native	University of California Berkeley Doctorate in Progress: Neuroscience 2024 – National Institutes of Health *FAES Courses & **Online Courses 2022 - 2024 La Sierra University Bachelor of Science (B.S.) 2022 Major: Neuroscience, <i>High Honors</i>
Skills and Competencies Programming Languages R Python NBS FLOAT Imaging Nikon A1 - Whole Brain Imaging (fluorescence) Zeiss 880 - Neuronal Ablations - Whole Brain Imaging Nikon FN1 - Time Lapse - Electrophys recording Leica Stellaris - Whole Brain Imaging Nikon A2 Spinning Disk - Whole Brain Imaging Prototyping AutoCAD FormLabs Blender 3D Familiar Neuroscience Tools Electrophysiology (NBS) EEG tDCS	Honors and Awards College of Arts and Science Deans Outstanding Student Award 2022 - The CAS Dean’s Award recognizes one student per year whose curricular and extra-curricular achievements stand out as exemplifying the ideals of the University at a superior level. - Nominated by Psychology and Neuroscience Department. - Selected by the Deans of the College of Arts and Sciences (Unanimous) Senior of the Year for Neuroscience Nominee 2022 - Nominees can be selected for either the Neuroscience Senior of the Year or the more competitive CAS award but cannot be selected for both. - Selected by the Psychology and Neuroscience Faculty (Unanimous) President’s Award Nominee 2022 - Nominated by the Deans of the College of Arts and Sciences (Unanimous) Department of Psychology and Neuroscience Honors Award 2022 - Designed for highly qualified students who wish to further their research experience. First in 10 years to receive the award. - Selected by the Department of Psychology and Neuroscience faculty. Research Emphasis Week First Place (Poster Presentation) 2022 - Selected by La Sierra University faculty Research Emphasis Week Second Place (Poster Presentation) 2022 - Selected by La Sierra University faculty

Grants and Fellowships

Award	Institution	Amount	Period
Graduate Research Fellowship Program	National Science Foundation	\$159,000	2024 – 2029
Chancellor’s Fellowship	University of California Berkeley	\$36,000	2024
Stern Health Sciences Fellowship	University of California Berkeley	Undisclosed	2024 - 2029
Marian Diamond Fellowship	University of California Berkeley	\$2000	2024
National Defense Science and Engineering Graduate Fellowship	Department of Defense	Declined	2023
La Sierra University Service and Leadership Award	La Sierra University (LaSU): Administration	\$2000	2021 – 2022
CARES Act Award	Department of Education	\$10,000	2021
Howe Student Mission Award	Private Endowment Committee	\$2,000	2021
Kwirim Research Fellowship Award	LaSU Biology Department	\$5000	2021
Honors Scholarship	LaSU Honors Department	\$2,000	2019 - 2022
Title V Grant Fellowship	LaSU Title V committee	\$20,000	2017 – 2018

Research Experience

University of California Berkeley | Berkeley, CA

The Silver Lab - Visual Science and UC Berkeley Center for the Science of Psychedelics: Michael Silver

Rotation Student February 2025 – May 2025

- Developed and implemented a multi-stage computational pipeline in Python and Bash to analyze multimodal neuroimaging and psychometric data.
- Extracted and processed first-level (run-level) and second-level (group-level) fMRI statistics from FEAT analyses using FSL command-line tools.
- Created a pipeline for quantifying subject-specific sulcal morphology (e.g., surface area, curvature, depth) for the paracingulate sulcus (PCGS) from FreeSurfer-derived data, then used the pipeline to create ROI’s for fMRI analysis.
- Integrated fMRI activity, structural brain morphology, and psychometric data (Altered States of Consciousness questionnaire) to investigate the neural correlates of subjective drug effects.
- Performed statistical analyses, including paired t-tests and Pearson correlations, to assess the impact of experimental conditions on brain activity and its relationship with brain structure and subjective experience.
- Engineered a modular analysis workflow to automate data processing and generation of publication-quality visualizations with detailed, programmatically-generated statistical annotations for enhanced reproducibility.
- Techniques and skills utilized: Python (Pandas, NumPy, Matplotlib, Seaborn, SciPy), Bash/Shell Scripting, FSL (FEAT, fsstats), FreeSurfer, fMRI data analysis (1st & 2nd level), structural MRI morphometry, statistical analysis (t-tests, correlations), data wrangling, and scientific data visualization.

Joint Rotation: Bunge Cognitive Building Block Lab & Weiner Cognitive Neuroanatomy Lab, University of California, Berkeley

Rotation Student with Dr. Silvia Bunge & Dr. Kevin Weiner – August 2025 – October 2025

- Analyzed a large neuroimaging dataset to investigate structure-function relationships in the human brain, focusing on how cortical sulcal morphology relates to reasoning abilities.
- Developed a novel analysis pipeline using Python to parse, process, and statistically analyze anatomical data extracted from human brain MRI scans.

- Identified and quantified group-level differences in cortical anatomy (sulcal depth, length, and surface area) and correlated these structural metrics with behavioral measures of reasoning.
- Presented analytical methods and scientific findings to interdisciplinary lab groups, effectively communicating neuroanatomical concepts and statistical results.
- Techniques and skills utilized: Python (Pandas, NumPy, SciPy), neuroanatomy (cortical folding, sulcal identification), statistical analysis (group comparisons, correlations), data visualization, and scientific communication.

National Institutes of Child Health and Development (NIH/NICHHD) | Bethesda, MD

Burgess Behavioral Neurogenetics Lab: Dr. Harold A. Burgess HaroldBurgess@nih.gov

Post-Bac Research Assistant - August 2022 – June 2024

- Characterized neurons responsible for arousal response in zebrafish post-flow response
- Proposed and implemented a classifier-based machine learning model from established literature as a method to differentiate disease vs wildtype brains. Developed a spatial model of the zebrafish brain, exploring relationships between brain region distances, covariation, and disease phenotypes, ultimately contributing to the understanding of functional relationships between brain regions' communication and uncovering anatomical and functional relationships between brain regions.
- Optimized confocal microscopy techniques for precise brain imaging and targeted ablation, shedding light on neural circuits and mechanisms linked to waking arousal and startle behavior.
- Established innovative protocols for combining chemical and light-based ablation methods to achieve cell-specific ablations associated with arousal behavior without tissue damage.
- Produced and documented new strains of genetically modified zebrafish with CRISPR techniques, ensuring data integrity and visibility through a national database.
- Utilized a diverse set of techniques and skills, including IHC, ISH, PCR, HCR confocal microscopy, fluorescence, data analysis and modeling using R, brain registration, fish mounting for imaging, breeding and genetic screening, behavioral experimentation, data collection, scientific writing, interdisciplinary scientific communication, meticulous record-keeping and fostering productive inter-lab communication, among other tasks.

*Foundation for Advanced Education in the Sciences (FAES) Courses Udemy

FAES Courses, NIH Trainings

- Medical Image analysis and AI with MATLAB
- Translational Science Training Program (TSTP)
- Writing and publishing a Scientific Paper (GRAD 500 Workshop)

**Online Courses

Coursera

- Medical Neuroscience (Duke)
- CS50 – Introduction to Computer Science (Harvard)
- Reproducible Research with R (Johns Hopkins)
- Understanding Medical Research (Yale)
- 100 days of Python (Coursera)

- Data Science and Machine Learning Bootcamp with R

CodeCademy

- Learn R
- Getting Started Off-Platform for Data Science
- Analyze Data with R
- Causal Inference with R

Datacamp

- Learn Python
- Introduction to Python
- RDocumentation: hclust

Dana-Faber Cancer Institute, Lowe | Boston, MA (Remote)

Florez Cancer and Health Disparities Laboratory

Post-Bac Research Assistant - July 2023 – April 2024

- Conducted in-depth data analysis to contribute insights to research projects addressing women with lung cancer, focusing on understanding disease patterns and treatment outcomes.
- Utilized advanced statistical methods to uncover disparities in cancer health outcomes, particularly among marginalized communities, informing efforts towards more equitable healthcare practices.
- Investigated the intersection of social justice issues and medical education through data analysis, aiming to promote inclusivity and diversity within academic research environments.

Loma Linda University Medical Center | Loma Linda, CA

Frankis Alamaguel Theranostic Laboratory: Dr. Frankis Almaguel Falmaguel@llu.edu, Dr. Daisy De Leon Ddeleon@llu.edu, Dr. Alfonso Duran Aduran@llu.edu

Undergraduate Research Assistant - Jul 2021 – Jun 2022

- Isolated biomolecules involved in prostate, breast, and brain cancer cell metabolism for the purpose of targeting Enolase proteins with antigens and radioisotopes.
- Quantified the effects of a novel inhibitor to target and destroy cancer cells.
- Optimized protocols relating to cell culture, protein quantification analysis, and MTT assays
- Involved in academic writing and presentation of relevant data.
- Techniques and skills utilized: cell culture, handling of human cellular, tissue, and liquid samples, florescent antibody technique, sterile technique, cell fractionation, centrifugation, western blot analysis, enhanced chemiluminescence (ECL), total protein analysis, protein assay, light microscope, staining and immunohistochemistry, dark room equipment, incubation, data analysis.

La Sierra University | Riverside, CA

Trueblood Marine Physiology Laboratory: Dr. Lloyd Trueblood Lloyd.trueblood@lasierra.edu

Undergraduate Research Assistant - Apr 2019 – Aug 2023, **Current Collaborator**

- Developed a software tool to quickly recognize and analyze shape/size of discrete and multifaceted objects in large image datasets
- Investigated the effects of ocean pCO₂ level on blood oxygen binding in *Metacarcinus magister* (crabs), *Octopus rubescens* (East Pacific Red Octopus), *Musoctopus leioderma* (deep-sea Muus-octopus)
- Selected to spend an academic quarter at Rosario Beach in Washington State actively performing animal husbandry, tissue and specimen collection, while troubleshooting methods to measure hemocyanin in octopus and crab blood. Additionally, we were the first team in the world to successfully extract blood from a living *Musoctopus leioderma* and perform various blood analysis experiments.
- 3D printed and handcrafting original experimental surgical and blood analysis equipment. Maintained high standard of care for the participants, discovered effective techniques to perform blood draws and collect, label, and maintain tissue and liquid samples. Fabricated a spectrophotometer case to allow for gas and liquid to flow through samples with real-time measurements.
- Techniques and skills utilized include spectrophotometry, titrations, performing simple surgical procedures, maintaining and evaluating animal records, administering medication, collecting blood and tissue samples and performing animal autopsies with the highest standard of care according to the United States and European Union regulations on animal research. Maintained sterile operating areas, created custom surgical equipment, and utilized established and emerging surgical techniques to collect data on the oxygen-binding properties of Hemocyanin in *Octopus rubescens* in California and Washington.

Le Dantec Cognitive Neuroscience Laboratory: Dr. Christophe le Dantec. cledante@lasierra.edu

Undergraduate Research Assistant - Apr 2019 – 2023

- Lab investigating perceptual and contextual learning, working memory, multisensory perception, time perception, and synesthesia.
- Built a Faraday cage and ran behavioral trials. Responsible for developing original behavioral paradigms, attaching EEG hardware to participants, designing working scripts for various behavioral tasks (NeuroObs), writing drafts for three academic papers, and presenting projects to local research conferences as well as the Western Psychological Association based on current works.
- Techniques and skills learned include: installation of Electroencephalogram (EEG), transcranial Direct-Current Stimulation (tDCS) with analysis of data through SPSS and creation of tasks using Neurobehavioral Systems platform, Python3, Presentation Control Language (PCL), and physical creation of a large Faraday Cage.

SEA-PHAGES: Dr. Arturo Diaz adiaz@lasierra.edu, Dr. Arun Muthiah, Dr. Natasha Dean

Specialty Lab Course - Jan 2018 – Jun 2018

- SEA-PHAGES: Science Education Alliance-Phage Hunters Advancing Genomics and Evolutionary Science. A fairly unique research-based two quarter course with La Sierra being one of six schools in California offering the program. Students identify a number of unique bacteriophages then characterize the genome using bioinformatic methods.
- Responsible for writing the introduction and part of the method section of the published paper.

- Techniques included: pipetting, electron microscopy, maintaining and purifying phage, preparing and assaying bacteriophage lysates, media preparation, sterile technique, bacteriophage isolation, and dilutions. Genome annotation and bioinformatic analysis was then performed to characterize and classify the bacteriophage.

Publications - Accepted

Miller G., Tran S., Abrahams R., Bazan D., Blaylock E., Choi J., Grewal S., Hernandez E., Kim D., Kim K., Lee Y. Genome Sequences of Bacteriophages KaiHaiDragon and OneinaGillian, Isolated from *Microbacterium foliorum* in Riverside, California. Microbiology resource announcements. 2019 Apr 11;8(15)

Preprint

Sharma H, Robea MA, McGrory NH, Bazan DC, Burton EA, Burgess HA. Functional interrogation of neuronal connections by chemoptogenetic presynaptic ablation. bioRxiv [Preprint]. 2025 Apr 5:2025.04.04.647277. doi: 10.1101/2025.04.04.647277. PMID: 40236196; PMCID: PMC11996543.

Publications – In Review

Bazan, D. C., Le Dantec, C., & Garcia, I. Examining the Interplay of Eccentricity and Duration: Event-Related Potentials Underpinning Duration Memory in Visual Stimuli

Sharma H, Robea MA, McGrory NH, Bazan DC, Burton EA, Burgess HA. Functional interrogation of neuronal connections by chemoptogenetic presynaptic ablation.

Publications - In Preparation

Panlilio, J. M., Bazan, D. C., & Burgess, H. A. Neural circuits regulating waking arousal in zebrafish.

Bazan D. C., Burgess H. A., Size Variability and Structural Covariation Throughout the Zebrafish Brain

Bazan D. C., & Le Dantec C. Effects of Transcranial Direct Current Stimulation (tDCS) over Frontal, Parietal, Temporal, Occipital Cortices on Duration Discrimination.

Bazan D. C., Rebaï M., Le Dantec C. Interference between Word and Duration in a Visual Duration Discrimination Task: a Temporal Stroop Effect.

Garcia I., Bazan D. C., Rebaï M. & Le Dantec C. Daily THC consumption enhances the effect of eccentricity on temporal perception of monochromatic stimuli.

Conference Abstracts

Bazan, D. C., Peruch, J., Yonemoto, G., & Trueblood, L. (2022). Bloody Interaction: The Effect of Elevated Ocean pCO₂ Levels on Blood Oxygen Binding in *Metacarnicus magister*. Poster presented at the La Sierra University Research Emphasis Week. **(First Place Winner)**.

Bazan, D.C., Santiago, K., Álvarez de La Cruz, A., Das, B., Durán, A. M., & Casiano, C. A. (2022). Targeted glycolysis inhibition by novel enolase-1 inhibitors causes cell death in chemoresistant prostate cancer cells. Poster presented at the La Sierra University Research Emphasis Week **(Second Place Winner)**.

Panlilio, J. M., Bazan, D. C., & Burgess, H. A. (2023). Neural circuits that regulate waking arousal in zebrafish. Poster presented at the Society for Neuroscience (SFN 2023).

Bazan, D. C., & Burgess, H. A. (2022). Computational Mapping of the Brain: Investigating Structural Covariation and Anatomical Imbalance in the Zebrafish Brain. Poster presented at the National Institutes of Health Intramural Conference.

Bazan, D. C., & Burgess, H. A. (2022). Computational Mapping of the Brain: Investigating Structural Covariation and Anatomical Imbalance in the Zebrafish Brain. Poster presented at the Mid Atlantic Regional Zebrafish Conference (MARZ 2022).

Bazan, D. C., Peruche, J., & Yanamoto, G. (2022). Bloody Interaction: The Effects of Elevated Ocean pCO₂ Levels in *Metacarnicus Magister*. Poster presented at the Society for Integrative and Comparative Biology (SICB 2022).

Krystal Santiago, Daniel C. Bazan, Astrid Álvarez de La Cruz, Bhaskar Das, Alfonso M. Durán, Carlos A. Casiano. Targeted glycolysis inhibition by novel enolase-1 Inhibitors causes cell death in chemo resistant prostate cancer cells. Loma Linda Medical Center Medical Conference (2022)

Bazan, D. C. (2021). Developing a Model for Conscious A.I. (Paper Presentation).

Bazan, D. C. (2020). Emotional States and Their Effect on Conscious Decision-Making (Paper Presentation).

Bazan, D. C. Le Dantec, C., Gomez, M., Ward, P., Taff, J., Enriquez, E., Dimitri, A., Quiroz, D., Chiang, M., & Leach, R. (2020). Effects of tDCS over Frontal, Parietal, Temporal, Occipital Cortices on Duration Discrimination. Paper presented at the Western Psychological Association conference.

Bazan, D. C., Le Dantec, C., Gomez, M., Taff, J., Enriquez, E., Ward, P., Quiroz, D., Leach, R., & Mohamed, R. (2020, October 22). The Eccentricity of Visual Stimuli Affects the Participants' Performance and Event-Related Potentials Recorded During a Duration Discrimination Task. Paper presented at the Western Psychological Association conference.

Bazan, D. C. Le Dantec, C., Gomez, M., Ward, P., Taff, J., Enriquez, E., Chiang, M., Dimitri, A., Conneen, M., Quiroz, D., & Leach, R. (2020, October 22). Interference Between Word and Duration in a Visual Duration Discrimination Task: A Temporal Stroop Effect. Paper presented at the Western Psychological Association conference.

Bazan, D. C. (2019). Love: Familiarity and the Perception of Time (Poster and Paper Presentation).

Yu, E., & Bazan, D. C. (2019). The End of the Beginning: Bacteriophage Host Range Assay; Seeking New Paths for Treating Pathogenic Bacterial Infections.

Selected Invited Talks

Science

Bazan D.C. (2023) “Investigating Structural Covariation, Brain Scaling, and Anatomical Imbalance in the Zebrafish Brain” Oral Research Presentation. National Institutes of Health Biological Informatics Core. Program Committee Selected.

Bazan D.C. (2023) “Investigating Structural Covariation and Anatomical Imbalance in the Zebrafish Brain” Oral Research Presentation. Mid Atlantic Regional Zebrafish Conference (MARZ). Program Committee Selected.

Bazan. D.C. (2023) “Elucidating the Neurons Responsible for the Arousal Pathway in the Zebrafish Brain” Oral Research Presentation. Post-bac Seminar Series.

Bazan D.C. (2022) “Seeking a cure: Enolase Inhibitors as a Combined Diagnostic and Therapeutic Method for Glioblastoma Multiforme.” Oral Research and Paper Presentation Selected by Honors Research Faculty

Other

Bazan D.C. (2022) “Keys to success: Tools to boost productivity, longevity, and healthy habits during university.” Oral Presentation. TITLE V 1st Generation and low socioeconomic status Math Bootcamp. La Sierra University.

Bazan D.C. (2021) “The Relationship Between Humanity and the Humanitarian.” Oral Presentation. Southeastern California Conference.

Bazan D.C. (2020) “Unjust living conditions: A solution to housing the marginalized.” Oral Report. Mauritania Housing Authority, Nouakchott, Mauritania.

Bazan D.C. (2019) “Creating Opportunities for Success When Success is Unfathomable”. Oral Presentation. TITLE V 1st Generation and low socioeconomic status Math Bootcamp La Sierra University.

Teaching

Teaching Assistant, La Sierra University Physics Department

General Physics Lab (PHYS 101L) (egenesto@lasierra.edu)

Spring 2022

General Physics Lab (PHYS 102L)

Spring 2022

- Created, graded, and distributed daily quizzes for each lab section
- Set up experiment paradigms and assisted students with experiments and lab reports
- Introduced topics to the lab and oversaw lab sessions

Overseen by Elvis Geneston (Department Chair, egenesto@lasierra.edu)

Teaching Assistant, La Sierra University Psychology and Neuroscience Department

Behavioral and Anatomical Neuroscience (NEUR 261 & 261L) (clledante@lasierra.edu)

Winter 2022

General Psychology and Lab (PSYC 104 & 104L) (lmartin@lasierra.edu)

Winter 2022

Intro to Neuroscience (NEUR 106 & 106L) (smallery@lasierra.edu)

Fall 2021

General Psychology and Lab (PSYC 104 & 104L) (clledante@lasierra.edu)

Fall 2021

General Psychology and Lab (PSYC 104 & 104L) (clledante@lasierra.edu)

Fall 2018

- Created and graded daily reading activities, quizzes, and exams
 - o (PSYC 104 & 104L, NEUR 261L, NEUR 106L)
- Lectured on requested topics, including statistical probability and APA-style
 - o (PSYC 104 & 104L)
- Assisted students with experiments and activities during lab sessions
 - o (PSYC 104L, NEUR 261L, NEUR 106L)
- Advised on curriculum changes and a new B.S. degree in Cognitive/Computational Neuroscience

Overseen by Christophe Le Dantec (Asst. Prof. clledante@lasierra.edu), Leslie Martin (Prof.

lmartin@lasierra.edu), Suzanne Mallery (Prof. smallery@lasierra.edu).

Selected Leadership Experience

President: Honors Council, Honors Program Student Government, Jul 2021 – Aug 2022

- Established an active centralized digital community center for Honors students, alumni, and faculty through discord
- Worked with the student council to design and hold bi-weekly events for the purpose of creating and maintaining community within the Honors department and recruiting new members.
- Developed a website, constitution outlining role responsibilities, orientation, and centralized resource page for the Honors department.
- Responsible for voicing the desires and needs of the student body to the honors faculty senate.
- Developed a new council position for outreach and another dedicated to developing and implementing student resources.

Team Leader, Student Association of La Sierra University

Aug 2021 – Jan 2022

- Leader of a piloted student association *wellness* sub-committee involved in solving specific problems students were facing on campus due to the pandemic. My roles included: team leader of the Mental Health group, and assistant to the LGBTQ+ and Social Wellness teams.
- Oversaw the development of weekly social media challenges, developing an accountability buddy system between students, creating health related goodie baskets to be sent to on-campus and off-campus students, a unique platform to connect upperclassmen and lowerclassmen, and advocated for outdoor study areas available to on-campus students.

Executive Chair: Finance Committee, SALSU Student Senate, Sep 2021 – Jun 2022

- Advocated for students' financial needs by leading a team dedicated to working with administration to develop a more equitable meal plan and removing registration late fees, promoting a unique loan-to-scholarship opportunity, financial literacy workshops, COVID relief funds, endowment scholarships, open floor student engagement activities.
- Successfully changed policy related to registration late fees, and COVID relief funds to provide students with emergency funds directed to housing and food

Executive Chair: Constitution and Bylaws Board, SALSU Executive Senate, Dec 2021 – Jun 2022

- Responsible for reviewing university executive council action, senate action or any relevant university policy violation or student disputes.

Selected Service Experience

- President**, Health Fair Initiative: Columbia County Outreach Group | Columbia, MD Aug 2022 - Current
- Creator and Program Director for the Columbia Community Outreach Group, comprised of young professionals, local community leaders, and local volunteers.
 - Conceptualize, organize, and oversee development of quarterly health fairs in Columbia, MD, that introduced medical professionals, addiction resources, and pharmacists with community members. Included informative workshops, seminars, and interactive sessions, fostering wellness awareness and empowerment within the local community.
 - Coordinated follow-up with local free clinics and resource managers to characterize and quantify effectiveness of the health fair as an intervention
- Volunteer**, Homes Not Borders: Refugee Housing Program | Montgomery, MD Sep 2022 - Current
- Transported, setup, and arranged furniture in temporary purchased houses and apartments for refugee families from Afghanistan every third Sunday of the month.
 - Worked alongside KAMA DC and the GLOW TEAM in Washington DC to provide financial and community support to refugees.
- Language Literacy Tutor**, Literary Services: Riverside County Library System | Riverside, CA Aug 2021 – Aug 2022
- Worked successfully with a non-English adult learner to improve independence in job searching, family support, and achieve United States citizenship.
- Team Leader**, Food Distribution Program: La Sierra University Church | Riverside, CA Aug 2020 – Mar 2021
- Served with a team of students and professionals to organize 150+ crates of food and supplies to be distributed to over 100 vulnerable families and individual members of the La Sierra community on a weekly basis.
- Consultant**, Social Media and Website Project: Inland Empire Health Plan | Riverside, CA Dec 2020 – Mar 2021
- Led a team designing and implementing an Inland Empire Health Plan ConnectIE website, Facebook, and Instagram page for the purpose of connecting individuals with specific needs (food, housing, crisis, etc.) to community agencies through web-based search tools, telephonic services, and in-person interventions.
 - Leveraged SMART goals and community toolbox to increase the amount of utilization of the ConnectIE page. Google metrics revealed 25,765 new users over the course of two months following the implementation of our designed intervention, with a total of 50,000 new users at the end of the year, up from 15,000.
- Team Leader**, Guatemala Humanitarian Aid Project: Pre-Medical Society Mission Trip | Virtual Jan 2021 – Mar 2021
- Co-Leader of a team dedicated to providing a health-related education series, developing a children's story, and raising funds to distribute food, shoes, and deficient necessities for children in the Casa de San Jose AIDS hospice center.
- Program Supervisor**, Adventist Development Relief Agency in Mauritania | Mauritania, Africa Aug 2019 – Mar 2020
- Organized and contacted local leadership, international medical personnel and non-government organizations (NGOs) on behalf of the Adventist Development and Relief Agency (ADRA), for the purpose of establishing whole-body health and medical expos to over 2000 individuals in three separate community outreach programs.
 - Coordinated collection and distributed over 2000 essential medical supplies to members of local and non-local impoverished communities.
 - Oversaw the first widespread implementation and natural disaster testing of eco-friendly plastic and glass bottle homes, offices, and commercial buildings across Nouakchott, Mauritania, and presented findings to the local government.
 - Advocated for and established the first and only local mobile clinic in Mauritania seeing over 60 patients per week with medical, nutritional, and lifestyle education tailored to the unique local populations.
 - Reformed state policy to assisted in mediating relationships between local authorities and individuals living with leprosy in order to educate and create new policy for the surrounding communities.
- Medical Assistant**, Adventist Development Relief Agency in Mauritania | Mauritania, Africa Aug 2019 – Mar 2020
- Served as a key member of a healthcare team in a clinic focusing on family medicine and another clinic focusing on women's health.

- Assisted in minor surgeries by ensuring a sterile environment, preparing patient for the physician, and accompanying physician throughout surgery acting as either her sterile or non-sterile “hands” independent from the direct surgery.

Website Design, Adventist Development Relief Agency in Mauritania | Mauritania, Africa Oct 2019 – Mar 2020

- Centralized investor, donor, and volunteer onboarding and application processes while simultaneously converting local internal and external ADRA Mauritania documents from paper to digital resources.

Music Teacher, Adventist Development Relief Agency in Mauritania | Mauritania, Africa Oct 2019 – Mar 2020

- Developed curriculum and instructed a range of students on piano to encourage participation in instrumental music and choir for the local church.

English Tutor, Adventist Development Relief Agency in Mauritania | Mauritania, Africa Oct 2019 – Mar 2020

- Work with local and international teachers to ensure students are successful throughout the program and that there are alternate strategies to ensure all students needs are met.

Construction Laborer, Adventist Development Relief Agency in Mauritania | Mauritania, Africa Oct 2019 – Mar 2020

- Performed risk assessment of short and long-term building plans and designs.
- Designed and prepared layout and land for construction activities.
- Built houses from plastic bottles, demolished buildings, and installed internet providing technology.

Select Work Experience

Resident Assistant: La Sierra University Men’s Dorm | Riverside, CA Jul 2019 & Sep 2020 – Mar 2021

- Coordinated with team members to address diverse work-related problems while evaluating staff performance and records.
- Assisted in developing, maintaining, and enforcing COVID and non-COVID related policies unique to each respective dorm.
- Cared for students and student issues by providing physical and emotional care during student distress.
- Routinely met with students to advocate for healthy lifestyle habits, mentorship opportunities, and university life success strategies.

International Liaison: La Sierra University International Program | Riverside, CA Jun 2019

- Met with students daily to facilitate language learning opportunities, cultural knowledge, and mentoring activities.

Catering Supervisor: La Sierra University Dining Services; Catering | Riverside, CA Mar 2018 – June 2022

- Managed catering functions comprising of setting up a dining venue, creating a vibrant environment, and professionally serving guests, all the while ensuring high customer satisfaction.
- Responsible for major ceremonies, including the president's dinner, honors faculty and student retreat, REVO (an international fashion show at La Sierra University), Donor dinners, groundbreaking ceremonies, alumni weekend, and many more.

Customer Service Representative: La Sierra University Mens Dorm | Riverside, CA Sep 2018 – Jun 2019

- Delivered efficient, effective, and attentive customer service during high-stress and fast-paced environments.
- Communicated with customers to resolve complex issues regarding special orders, comments, and complaints.
- Organized confidential information of over 200 local and global residents while maintaining effective federal and local policies
- Developed paperless mailing, memo, and record-keeping systems for the men’s dorm.

Café Manager: La Sierra University Dining Services; Cafeteria | Riverside, CA Sep 2017 – JUN 2018

- Provided high-quality customer service by memorizing customers' orders, names, and faces.
- Developed technical skills with knives and other hazardous kitchen equipment.
- Practiced familiarity and administration of FDA health and safety practices.

Residential Construction: Josh Durock and Siding | Twin Falls, ID Apr 2020 – Aug 2020

- Accurately read and interpreted print, maps, sketches, and blueprints to craft over 1000 unique pieces of durock, siding, and light fixtures for 11 residential homes.
- Performed construction duties involving set-up and take-down of various equipment each day and ensured tools, rigging, and individual kits were correctly stored.
- Ensured timely arrival daily despite varying starting times, short notice, and late ending times.
- Overcame fear of heights while working on 25ft ladders carrying over 50lbs of tools and materials.

Affiliations

Sigma Xi TSRHS	2025 - Present
Society for Neuroscience Student Member	2022 - 2024
PsiChi Honors Society Member	2021 - Present
Psychology and Neuroscience Department Honors	2018 - 2022
La Sierra University Honors Program	2018 – 2022

Mentioned in:

<https://lasierra.edu/article/pivotal-octopus-ocean-acidity-study-attracts-international-media/>
<https://lasierra.edu/arts-and-sciences/deans-award/>
<https://lasierra.edu/article/universitys-research-emphasis-week-returns-to-in-person-sessions-adds-symposium/>
<https://seaphages.org/blog/2020/04/07/sea-phages-and-phire-contributors-microbacterium-sp-paper/>
<https://honorgram.lasierra.edu/2022/10/where-are-they-going-2/>

References

Research

Harold Burgess, Ph.D.

Senior Investigator
Section on Behavioral Neurogenetics
National Institutes of Health (NIH) / Child
Health and Human Development (NICHD)
haroldburgess@mail.nih.gov

Frankis Almaguel, M.D. Ph.D.

Senior Investigator
Molecular Imaging & Therapeutics
Loma Linda University Health
CHDMM, LLUH Cancer Center
Falmaguel@llu.edu

Christophe Le Dantec, Ph.D.

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Cognitive Neuroscience
La Sierra University Psychology and
Neuroscience Department
cledante@lasierra.edu

Lloyd Trueblood, Ph.D.

Professor, Department Chair
Marine Biology and Physiology
La Sierra University Biology Department
Lloyd.trueblood@lasierra.edu

Character

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