



CalPoly Pomona

Innovation Incubator

# POLYX SHOWCASE

Thursday, November 16, 2023

11:30AM - 1:30PM

Bronco Student Center (BSC) - Ursa Major



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# Event Schedule

Thursday, November 16, 2023 ▪ 11:30AM-1:30PM

<b>10:00AM - 11:30AM</b>	<b>Check-In</b>
<b>11:30AM - 12:15PM</b>	<b>Poster Presentations</b>
<b>12:15PM - 12:30PM</b>	<b>Dr. Dora Lee, Ericka Olguin, Dr. Olukemi Sawyerr, Dr. S. Terri Gomez, and President Soraya Coley</b>
<b>12:30PM - 1:30PM</b>	<b>Poster Presentations</b>

## Showcase Remarks



**Dr. Soraya M. Coley**  
President of California State  
Polytechnic University, Pomona



**Dr. S. Terri Gomez**  
Interim Provost  
Vice President of Academic Affairs



**Dr. Olukemi Sawyerr**  
Associate Vice President  
of Academic Innovation



**Dr. Dora Lee**  
Director, Academic Support  
& Learning Services



**Ericka Olguin**  
Senior Innovator  
Innovation Incubator

# Planning Committee



**Dr. Nina Abramzon**  
Professor & Associate Chair  
Physics and Astronomy Department



**Priyatham Sai Chand Bazaru**  
Student Assistant  
Innovation Incubator



**Dr. Ghada M. Gad**  
Associate Professor, Construction  
Engineering and Management, Civil  
Engineering College of Engineering



**Ericka A. Olguin**  
Senior Innovator  
Innovation Incubator



**Melissa Riordan**  
Director  
Alumni & External Relations



**Christian Rivera**  
Assistant  
Academic Support & Learning Services



**Debbie D. Tanaka**  
Micro-Internship Coordinator  
Innovation Incubator



**Dr. Preeti Wadhwa**  
Professor & Faculty Fellow,  
Management & Human Resources  
College of Business Administration



**Matt Walsh**  
Associate Director,  
Volunteer Engagement  
Alumni and External Relations



**Natalie R. Graff**

Assistant Vice President of Operations  
Division of University Advancement



**Caitlyn Kubulan**

Communications Specialist  
Academic Innovation



**Dr. Dora Lee**

Director  
Academic Support & Learning Services



**Josue A. Ruiz**

Web Developer  
Academic Innovation



**Connie Schmitz**

Director, Donor Relations &  
Stewardship Division of  
University Advancement



**Dr. Joanne J. Sohn**

Professor  
Department of Animal  
& Veterinary Science



**Helen E. Yniguez**

Director, Events & Special Projects  
Division of University Advancement

# PolyX Projects

## Don B. Huntley College of Agriculture

### Americans Have Been Getting Fatter

**Team Members:** Quinn Tran  
**Faculty Member:** Dr. Xu Yang

*Course Name: Orientation and Careers in Food Science 1000*

**Project Summary:** Spreading awareness about the benefit of eating healthy

### Asian American Food Insecurity

**Team Members:** Jacqueline Vidal  
**Faculty Member:** Dr. Fatheema Begum Subhan

*Course Name: Ethic Studies of Food Nutrition and Health Disparities 2180.06*

**Project Summary:** Explore and analyze social and structural determinants of food insecurity in the Asian American community.

### Billy's EZ Recipes: Meals for Students On the Go

**Team Members:** Alina Kim  
**Faculty Member:** Dr. Emily Kiresich

*Course Name: Introduction to Nutrition Professions, NTR 1000, sec 01*

**Project Summary:** Our project aims to help give students better access to easy recipes using healthy and affordable ingredients.

Students will be able to find the recipes through a link on the CPP website (like an online cookbook) that will give them meal ideas. There are different categories for recipes, such as vegetarian, low glycemic, allergen-free, etc.

Also, to increase the accessibility of ingredients, we made sure that most of the ingredients can be bought on campus or gotten from the Poly Pantry.

### Caffeine Complaints - Analysis of Starbucks Wait Times

**Team Members:** Jessica Reed, Zam Hassan, Ahmad Muhammad, Katie Evans  
**Faculty Member:** Dr. Xu Yang

*Course Name: Orientation and Careers in Food Science 1000*

**Project Summary:** An analysis of pickup and mobile order times from the campus Starbucks. Why does it take so long to complete mobile and pickup orders?

What would be the root causes for delays? By analyzing pickup times, we hope to determine how to relieve the delay in orders.

### Centralizing Food Resources on Campus

**Team Members:** Kayla Vallett, Giselle Camarena, Ivan Garcia, Jennifer Velazquez  
**Faculty Member:** Dr. Emily Kiresich

*Course Name: Introduction to Nutrition Professions, NTR 1000, sec 01*

Project Summary: Our group would like to help centralize all of the food access provided by Cal Poly Pomona all on one website or social media page. The University provides its students with a variety of resources for those dealing with food insecurity, such as the Poly Pantry, free meals provided through clubs, and the grocery education program.

Despite all these programs, not many students are aware of even half of the assistance the University provides us with, or have even thought of using certain activities, like joining a club, as a way to get meals provided for them.

## **Childhood Obesity**

**Team Members: Gladys Fremont, Elva Lopez, Sadie Garcia, Kimberly Lopez, Luis Frias**  
**Faculty Member: Dr. Emily Kiresich**

*Course Name: Introduction to Nutrition Professions, NTR 1000, sec 01*

Project Summary: We are going to discuss how child obesity is increasing in Pomona and how an education program can help to reduce childhood obesity.

## **Composting**

**Team Members: Cassandra Vazquez, Marissa G., Edmond Z., Denia L., Connie N.**  
**Faculty Member: Dr. Emily Kiresich**

*Course Name: Introduction to Nutrition Professions, NTR 1000, sec 01*

Project Summary: Provide information on repurposing food scraps and waste through composting as well as inform on the benefits of it.

## **Creating Food Opportunities for Those Who Eat Kosher and Halal**

**Team Members: Savannah Lunsford, Thmoas Loose, Celina Ronquillo, Tianna Toliver**  
**Faculty Member: Dr. Emily Kiresich**

*Course Name: Introduction to Nutrition Professions, NTR 1000, sec 01*

Project Summary: Preventing evidence about food opportunities on campus for those who eat kosher or halal.

## **Effects of Food Waste as a Byproduct and How to Solve It**

**Team Members: Cory Lee, Berlin Garcia, Nina Lee, Erick Roque, Shant Bilamjian**  
**Faculty Member: Dr. Emily Kiresich**

*Course Name: Introduction to Nutrition Professions, NTR 1000, sec 01*

Project Summary: Research involving food waste and how it affects not only money, but the effects on nutritional loss towards impoverished communities and how it could be solved.

## **False Marketing in the Food Industry**

**Team Members: Kaden Jackson, Leila Jenkins, Cienna Wright, Savannah Moyeda, Monica Chang**  
**Faculty Member: Dr. Xu Yang**

*Course Name: Orientation and Careers in Food Science 1000*

Project Summary: Our poster will be going over incidents of False or incorrect marketing tactics in the food industry.

## **Fighting the Obesity Epidemic: Strategies for a Healthier Future for Children in America**

**Team Members:** Myrra Alitagtag, Hannah Bayanilla, Toby Harris, Quinn Tran  
**Faculty Member:** Dr. Xu Yang

*Course Name: Orientation and Careers in Food Science 1000*

**Project Summary:** There is a rise in obesity, especially amongst children in America. To help combat the obesity epidemic, we will introduce a social media campaign to stop the spread of misinformation and educate parents on a healthy lifestyle for children in any social class.

## **Food Deserts**

**Team Members:** Valerie Ramos  
**Faculty Member:** Dr. Emily Kiresich

*Course Name: Introduction to Nutrition Professions, NTR 1000, sec 01*

**Project Summary:** Our poster will be introducing how food deserts can cause families to not have full access to food and not be able to meet the nutritional needs. Our team will be talking about different solutions to help avoid these issues.

## **Food Insecurity: Accessibility for Students**

**Team Members:** Alicia Poloniecki, Kimberlyn Dinh, Annette Vu, Aimee Carrillo, Maria Olga Calderon  
**Faculty Member:** Dr. Emily Kiresich

*Course Name: Introduction to Nutrition Professions, NTR 1000, sec 01*

**Project Summary:** We'll be discussing the meaning of food insecurity within college students and how it affects them overall. We'll also be providing resources on how they can overcome food insecurity.

## **Food Insecurity Among African American Students**

**Team Members:** Andrew Soliman, Jonahdine Hernandez, Jullian Perez, Emily Sisuphan  
**Faculty Member:** Fatheema Subhan

*Course Name: NTR 2180.06*

**Project Summary:** Our poster will be focusing on the Food Insecurity issue that is present Among the African-American Student community attending college. Our goal is to bring awareness and solutions to the public regarding this issue.

## **Food Insecurity Among Latin Americans and their Countries**

**Team Members:** Jonathan Castillo Castillo, Leonel Avila, Amparo Gamboa, Muqet Akhtar  
**Faculty Member:** Fatheema Subhan

*Course Name: NTR 2180-06*

**Project Summary:** Our group explores the concept of food insecurity within the context of Latin American culture by drawing insights from student articles as well as conducting interviews. Our objective is to seek a comprehensive understanding of how food insecurity intersects with cultural practices, socioeconomic factors, and health perceptions across various countries and regions among Latin America.



## **Food Insecurity in Latin American Communities**

**Team Members:** Aimee Carrillo  
**Faculty Member:** Dr. Fatheema Subhan

*Course Name: NTR 2180.06 Ethnic Studies, Nutrition, Health Disparity*

**Project Summary:** We have interviewed Latin Americans about their history with Food Insecurity, if they have any, and how they are currently handling Food Insecurity in the present day to day. We will talk about the history of Food Insecurity in Latin American Communities and how it's dealt with today.

## **Food Insecurity in the Latin American Community**

**Team Members:** Liliana Ornelas  
**Faculty Member:** Fatheema Begum Subhan

*Course Name: NTR 2180.06 (F23-Regular) Ethnc Std Fd, Ntrtn, Hlth Dspr*

**Project Summary:** Our poster analyzes the food insecurity among the Latino community and how it is currently being solved. With personal interviews and peer reviewed articles, our group has found that there are many factors that cause food insecurity among this population ranging from poverty to lack of food markets.

## **Food Insecurity in the Latin American Community**

**Team Members:** Bryan Tobon, Karina Bermudez, Isabel Recinos, Issac Tse  
**Faculty Member:** Dr. Fatheema Begum Subhan

*Course Name: NTR 2180 Ethnic Studies of Food, Nutrition, and Health Disparities, 81130, and Section 06*

**Project Summary:** Using information obtained

through our qualitative study project research we attempt to understand how food insecurity impacts the Latin American community in the U.S.

## **Food Insecurity of Latin Americans**

**Team Members:** Richard Sotelo, Axel Zavala, Anthony Reyes  
**Faculty Member:** Dr. Fatheema Begum Subhan

*Course Name: Ethnic Studies of Food, Nutrition and Health Disparities, 2180, 06*

**Project Summary:** This poster will go over the research/data and interviews conducted to provide information on Latin American food insecurity.

## **Food Preservation**

**Team Members:** Andrew Muniz, Faith, Kadyn, Valeria, Alicia  
**Faculty Member:** Dr. Emily Kiresich

*Course Name: Introduction to Nutrition Professions, NTR 1000, sec 01*

**Project Summary:** The community problem that we have selected is food wasting. Tons of healthy foods are constantly being wasted within our community. Our solution is to create a public community website that teaches people how to better preserve their fruits and vegetables, and how to properly understand food expiration labels/dates.

## **Food Safety Awareness (Cooking Oil)**

**Team Members:** Marissa Underwood, Dana De Los Santos, Aidan Baldrick, Marcus Montes, Erick Diaz  
**Faculty Member:** Dr. Xu Yang

*Course Name: Orientation and Careers in Food Science 1000*

**Project Summary:** Safety of cooking oil in regard to toxins, storage, disposal, etc. in college setting

## **A Guide to Affordable Produce**

**Team Members:** Erika Ceron, Jesse Castaneda, Emily Zamorano, Galilea Penalosa  
**Faculty Member:** Dr. Emily Kiresich

*Course Name: Introduction to Nutrition Professions, NTR 1000, sec 01*

**Project Summary:** This presentation is aimed to help the public learn where and when it's ideal to buy produce at affordable prices to promote more consumption of produce in their diets.

## **How Fermentation Benefits the Health of the Elderly**

**Team Members:** Raina Robinson, Alejandro Figueroa, Sean Valdez, Gabriel Hernandez  
**Faculty Member:** Dr. Xu Yang

*Course Name: Orientation and Careers in Food Science 1000*

**Project Summary:** How eating fermented foods can benefit the health of the elderly and what specific health benefits come from eating fermented foods.

## **Hydration Stations at CPP: understanding PH and Temperature**

**Team Members:** Pascuala Cox, Christina Jaimes, Olinda Mejia, Lucine Besnelian, Lisa Kwong  
**Faculty Member:** Dr. Xu Yang

*Course Name: Orientation and Careers in Food Science 1000*

**Project Summary:** In this study, we evaluated the water quality at the water stations on the Cal Poly Pomona campus by measuring the PH, temperature, and filtration.

## **The Importance of Breakfast**

**Team Members:** Natalie Mercado, William Aguilar, Noora Strawder, Antonio Avelar Jr.  
**Faculty Member:** Dr. Emily Kiresich

*Course Name: Introduction to Nutrition Professions, NTR 1000, sec 01*

**Project Summary:** Many students skip breakfast, which is the most important meal of the day. Skipping breakfast can negatively affect students cognitively, physically, mentally, etc. Creating an omelette/pancake spot on campus can help students avoid those negative consequences.

## **Pomona, Do You Have Food Security?**

**Team Members:** Alexander Gomez, Madison Wilmes, Alina Kim, Priya Gupta, Vanessa Berkley

**Faculty Member:** Dr. Xu Yang

*Course Name: Orientation and Careers in Food Science 1000*

Project Summary: In California alone, there are millions of people struggling with food insecurity. Food insecurity is a lack of sufficient food for an individual or household. 54% of the world lives in urban areas and is speculated to increase. Cultivating a home garden is sustainable and can improve the biodiversity in the surrounding ecosystem.

## Poor Diet Quality Due to Lack of Access of Healthier Food Options

**Team Members:** Sathmi Austin  
**Faculty Member:** Dr. Emily Kiresich

*Course Name: Introduction to Nutrition Professions, NTR 1000, sec 01*

Project Summary: Our community problem is on poor diet quality due to lack of access of healthier food options and the environment around us. Millions of Americans rely their meals on fast food due to the fact that it is easily available compared to food that benefit their health, and through this project we intend on providing ideas with ways our society could have more access to healthier food options.

## Sleep Deprivation on College Students and Their Nutritional Habits

**Team Members:** Karen Solano Cruz, Patty Thitimeteapisuk, Chris Noguez, Sunshine Zendejas, Nazareth Limon Pedro

**Faculty Member:** Dr. Emily Kiresich

*Course Name: Introduction to Nutrition Professions, NTR 1000, sec 01*

Project Summary: To analyze why/how college students not getting enough sleep (6-8 hours) during the academic semester can heavily influence potential health issues and nutrition/dietary lifestyle and habits.

## Waste and Food Packaging - Zero Waste (Damage to the Environment)

**Team Members:** Micah Dominique Millan  
**Faculty Member:** Dr. Xu Yang

*Course Name: Orientation and Careers in Food Science 1000*

Project Summary: How aware is the average adult about the amount of food product waste they contribute to?

# College of Business Administration

## Accessible and Sustainable Transport Systems

**Team Members:** Kevin Kopcinski, Mikaela Marr, Blanca Alexandra Nartates, Tavina Chen, John Paul Mansour  
**Faculty Member:** Jacquelyn Trejo Torres

*Course Name: BUS 1010.03 (F23-Regular) Business Freshman Experience*

Project Summary: This will provide an analysis of road safety and public transportation in the city of Pomona, California. It will deep dive into what other cities can learn from Pomona and what cities like Pomona can improve upon to create a more sustainable and accessible community for all.

## **AI Chatbots Effects on Students**

**Team Members:** Justin Terasawa, Analie Jimenez, Frankie Salce, Isabella Sanchez  
**Faculty Member:** Maha Ghosn

*Course Name: Marketing Research IBM 3302-04*

**Project Summary:** A study conducted to discover how students feel about the inclusion of AI chatbots; How does it affect students academically and in daily life?

## **American Healthcare as an Ethnic/Racial Minority**

**Team Members:** Michael Miser, Scarlett Su, Alex Moreno, Antonio Coria  
**Faculty Member:** Ashley Ysais

*Course Name: Business 1010*

**Project Summary:** Our research dives into the persistent, and systematic troubling issue of healthcare quality disparities experienced by racial and ethnic minority groups in the United States.

## **Artificial Intelligence**

**Team Members:** Abdiel Felix, Estevan Gallardo-Treto, Musa Hamideh, Danny Salazar  
**Faculty Member:** Maha Ghosn

*Course Name: Marketing Research IBM 3302-04*

**Project Summary:** The purpose of our research is to gain a better understanding of bridging A.I usage within the academic school system without impacting the educational learning processes of students.

## **Balancing Act: Prioritizing Well-being for Young Adults Across California**

**Team Members:** Leo Barba, Anthony Cordova, Nawapat Bussarakornsirivit, Colin Espiritu  
**Faculty Member:** Ashley Ysais

*Course Name: Business 1010*

**Project Summary:** Our objective is to identify the most efficient way to positively impact young adults physical and mental health.

## **Being a Manager: A Realistic Job Preview**

**Team Members:** Nicholas Lai, Ann Le, Kenneth Ho  
**Faculty Member:** Dr. Preeti Wadhwa

*Course Name: MHR 3010-02 - Principles of Management*

**Poster Summary:** Our project involved using a semi-structured questionnaire to interview different managers and analyze the information obtained from these interviews to understand what it means to be managing people and organizations. We learned that managers at all levels must possess people skills and that leadership is more than just giving directions.

## **Blueprint for a Brighter Future**

**Team members:** Trevor Kuang, Hugo Garcia, Bladimir Morales, Jaylan Rowland  
**Faculty member:** Ashley Ysais

*Course name: Business 1010.5 (F23-Regular)*

Project summary: We will write an abstract with 150 words about creating more sustainable communities around poor areas of the world, such as Somalia.

How can we construct homes without damaging or removing the natural resources already there?

## **Clean H2O**

**Team Members:** Emilio Rodea, Kelli Zhang, Hudson Black, Moises Moreno, Jacqueline Castillo-Ramos, Javier Campos  
**Faculty Member:** Jacquelyn Trejo Torres

**Course Name:** BUS 1010.03 (F23-Regular)  
**Business Freshman Experience**

Project Summary: Looking into increasing water efficiency across Latin America Urban Communities. Offering solutions to help implement clean water and sanitation throughout struggling communities. With research and strong funding these factions will get the aid they so need.

## **Clean Water and Sanitation**

**Team Members:** Leonel Araujo, Sebastian Cantoni, Lucero Gomez, Justin Chang  
**Faculty Member:**

*Course Name: BUS 1010*

Project Summary: This poster will describe the scenarios of how water pollution can harm the wellbeing of a population within a country that may not have access to water purification. A country such as Costa Rica.

## **Climate Change for Future Generations**

**Team Members:** Gordon Lam, Kenia Escalante, Walker Randolph, Miguel Acosta  
**Faculty Member:** Jacquelyn Trejo Torres

*Course Name: BUS 1010.03 (F23-Regular)  
Business Freshman Experience*

Project Summary: The world will exceed 1.5°C by 2025 and faces a 2.5°C warming by 2100. Climate change is a pressing issue that affects our planet. It's important to spread awareness and take action to reduce greenhouse gases emissions.

## **Comparing and Contrasting the Modern Day Consumers Online Shopping Decisions**

**Team Members:** Haley D'alessandro, Aileni Ayala, Emily Hernandez, Isaac Guzman, Peyton Terry  
**Faculty Member:** Maha Ghosn

*Course Name: Marketing Research,  
IBM 3302, Section 4*

Project Summary: Through our research we will discover what drives the modern day consumer in their online purchasing decisions

## **Could Rising Tuition be Undermining Minority Students?**

**Team Members:** Jonas Romo, Kevin Bautista, Neftali Garcia, Gabriel Herrera  
**Faculty Member:** Raquel Alva

*Course Name: BUS 1010, Section 2*

Project Summary: Our team's goal is to explore and uncover the effects and impacts of increasing college tuition on minorities in California. We will also present possible recommendations for stakeholders and policymakers to create a more attainable roadmap for lower-incomed students.

## **Deforestation in the Amazon Rainforest**

**Team Members:** Sarah Huynh, Michelle Wu, Michelle Dominguez, Angel Chavarria  
**Faculty Member:** Ashely Ysais

*Course Name: Business Freshman Experience, 1010, 5*

**Project Summary:** Our poster is about the causes of deforestation in the Amazon rainforest and what solutions can be made to prevent it.

## **#EducationNation: Teacher Shortages in California**

**Team Members:** Ryan Abernethy, Anaiz Medina, Steve Ramos, Timothy Chuc, Johana Quiroz  
**Faculty Member:** Raquel Alva

*Course Name: BUS 1010 Section 02*

**Project Summary:** The teacher shortage has been a well-known and ongoing issue in America, with impacts on student performance and teacher morale. As schools stretch their resources trying to compensate for the lack of teachers, our research project begs the question: "Is there a way to fix the teacher shortage in California?"

## **The Effects of Deforestation on Animals**

**Team Members:** Victor Hernandez, Jacob Williams, Nathan Partida, Vivian Islas Moreno  
**Faculty Member:** Ashley Ysais

*Course Name: BUS1010 Section 6*

**Project Summary:** Deforestation has a significant impact on humans animals and

their habitats. When trees are cut down, it destroys the homes of countless species, leaving them without shelter and food. Many animals lose their natural habitats, leading to displacement, reduced population, and even extinction.

## **Electronic Waste Recycling at Cal Poly Pomona**

**Team Members:** Dillon Griswold, Nikhitha Vasiraju, Marvin Cantillano, Uriel Trujillo  
**Faculty Member:** Raquel Alva

*Course Name: Business Freshman Experience, BUS1010, 02*

**Project Summary:** Acknowledging the dangers of electronic waste pollution, highlighting the importance of sustainable electronic waste recycling and management, and proposing potential solutions to be implemented on campus here at Cal Poly Pomona.

## **Empowering Hispanic Children in the Face of Poverty**

**Team Members:** Iris Bello Vega, Micheal Ramirez , Sabrina Medina , Brianna Godinez  
**Faculty Member:** Ashley Ysais

*Course Name: BUS 1010, Section 6*

**Project Summary:** Our poster is about Hispanic children who are facing problems economically and living in poverty. Poverty has physical, financial, social impacts on Latino children.

## **Empowering Minds through Quality of Education**

**Team Members:** Dylan Yim, Rory Wilson, Claudia Ramos, Colin Lee, Yuktha Abbaraju, Spencer Kohan

**Faculty Member: Jacquelyn Trejo Torres**

*Course Name: BUS 1010.03 (F23-Regular)  
Business Freshman Experience*

Project Summary: The poster will delve into the essence of UN Sustainable Development Goal 4: Quality Education. Discover how accessible, inclusive, and equitable education can transform lives, foster social progress, and pave the way for a brighter future, as it strives to leave no one behind in the constant pursuit of knowledge.

**Empowerment Through Action:  
Transforming Communities  
Together**

**Team Members: Paulson Cheng, Beatriz K. Sanchez, Mariela Romero**  
**Faculty Member: Lydia Chen Shah**

*Course Name: IBM4990s*

Project Summary: "Learn By Doing Good" is the motto for this course. We collaborated in small groups to support a local food pantry. With 15 students, it felt like a close-knit family, making participation easy. There are numerous networking chances – it's a safe, supportive space to learn, grow, and create change together.

**END OF THE WORLD!! IS IT?**

**Team Members: Holly Marshburn, Naveen Dhillon, Joel Perez Madrid, Kimberly Torres, Giselle Chairez, Derek Wall**  
**Faculty Member: Jacquelyn Trejo Torres**

*Course Name: BUS 1010.03 (F23-Regular)  
Business Freshman Experience*

Project Summary: Mitigation of greenhouse gases, adaptation and resilience, international cooperation, education and awareness, and inclusive and equitable transition are the five

major targets in the mission toward fighting against climate change. Without meeting all 5 targets, climate change will pose rampant impacts on our world and soon they will be irreversible.

**Energize the Future- A Clean Solution**

**Team Members: Ian Walsh, Adrian Voong, Henry Chan, Aiden Hargrave, Diego Barrera, Carolina Caro**

**Faculty Member: Jacquelyn Trejo Torres**

*Course Name: BUS 1010.03 (F23-Regular)  
Business Freshman Experience*

Project Summary: Our team wants to spread information on possibilities of clean energy, and how a cleaner future is attainable.

**Ensuring Access to Affordable and Clean Energy**

**Team Members: Marcus Mendoza, Alexandra Ortega, Bill Dang, Johnny Quintana**

**Faculty Member: Jacquelyn Trejo Torres**

*Course Name: BUS 1010.03 (F23-Regular)  
Business Freshman Experience*

Project Summary: The poster will discuss the United Nations' mission is to provide affordable, reliable, sustainable, and modern energy access to all, fostering global equity and environmental sustainability. This initiative aims to reduce inequalities, enhance quality of life, and combat climate change, promoting a brighter and cleaner future for people worldwide.

## **A Fatal Addiction: Substance and Alcohol Abuse**

**Team Members:** Emily Yazell, Aidan Osuna, Jason Lue, Jiyeon Kang, Leila Garcia  
**Faculty Member:** Jacquelyn Trejo Torres

*Course Name: BUS 1010.03 (F23-Regular)  
Business Freshman Experience*

**Project Summary:** Our group is tackling the health and well-being of the world and addressing the current drug and alcohol abuse that exists. Many people are addicted to these substances and are facing the negative side effects that can even sometimes be fatal. We need to work to solve this issue.

## **Food Insecurity in Higher Education**

**Team Members:** Eliza Okome, Jade Garcia, Frank Arreguin, Steven Ton, Fernando Monteon  
**Faculty Member:** Raquel Alva

*Course Name: BUS 1010- 2*

**Project Summary:** Food insecurity for students in, not only Cal Poly Pomona but in all colleges across California has increased and is still an ongoing problem. Our goal is to find out why food insecurity is still an issue and what steps can be taken to stop these issues.

## **GasBuster United**

**Team Members:** Edward Li, Christian Cristales, Matthew Raya, Seth Yamashiro  
**Faculty Member:** Ashley Ysais

*Course Name: BUS 1010 Section 5*

**Project Summary:** Find and present solutions to reduce green house gas emissions released by gas powered vehicle.

## **Gender Equality and Men's Ignorance**

**Team Members:** Arianna Garcia, Trinity Nguyen, Arianna Salcedo, Kayla Plewes  
**Faculty Member:** Ashley Ysais

*Course Name: BUS 1010 Section 5*

**Project Summary:** The affect of men's lack of understanding and motivation to help fix and recognize issues with gender equality causes stagnancies and our solution is consisting of adapting and spreading easier communication skills among both sides.

## **Gender Equality in the Business World**

**Team Members:** Kimberly Miranda, Emily Loftis, Racquel Pelayo, Ryan Chan, William Mei, Tristan Rambaud  
**Faculty Member:** Jacquelyn Trejo Torres

*Course Name: BUS 1010.03 (F23-Regular)  
Business Freshman Experience*

**Project Summary:** Gender equality, a problem in which access to opportunities are still affiliated by gender. The United Nations has set 17 goals for sustainable development by 2030, gender equality is one. Gender equality within the business world is a prevalent one, which is one of the greatest injustices we'd like to represent.

## **The Greenest City in Asia**

**Team Members:** Lucas Metzger, Stephen Clarin, Kimberly Gonzalez, Dayanara Perez, Raenae Nandakumar, Emma Mchugh  
**Faculty Member:** Jacquelyn Trejo Torres

*Course Name: BUS 1010.03 (F23-Regular)  
Business Freshman Experience*



Project Summary: Singapore is named the greenest country in Asia based on its beautiful green cities and the land around the area. The city of Tengah and the surrounding areas such as Gardens by the Bay, are full of plants all over and up the buildings.

## **Health Checklist for Students to Improve Academic Performance**

**Team Members:** Christopher Kurdoghlian, Sawyer Marchetti, Sivana Thilak, Angel Dzul, Gavin Jeffries  
**Faculty Member:** Marcus Corra

*Course Name: BUS 1010.07*

Project Summary: What are some affordable health and diet related habits that college students can implement in order to increase their academic performance? To add, what are some of the ways they can specifically achieve this given CPP's resources?

## **How Can California Build for Better Water?**

**Team Members:** Owen Buell, Nathan Huynh, Jessica Dhillon , Brenity Ferrer  
**Faculty Member:** Ashley Ysais

**Course Name:** Business Freshman Experience, Business 1010, Section 5

Project Summary: Our poster focuses on how we can address the issue of California's drought, and clean water through infrastructure. Through examples of specific changes from California's water collection system to reducing cancer-causing elements in water reservoirs. We hope to bring awareness to these new solutions which California has started to use, or needs to implement. Using data and tables to highlight the need for water and clean usable water.

## **How Can Our Community Begin to Change Poverty in L.A. County?**

**Team Members:** Lara Sosa, Cody Flowers, Jose Rosales, Raphael Garcia  
**Faculty Member:** Marcus Corra and Natalie Sorensen

*Course Name: BUS1010 Section 07*

Project Summary: A presentation that portrays which demographic faces poverty the most in Los Angeles County and proposes a step our community in Pomona can do to change that.

## **How Corruptions Fuel Climate Change**

**Team Members:** Alexa Villanueva Cuellar, Adrian Cuevas, Josue Santos Francia, JuanCarlos Chavez , Joel Corral, Joshua Torres Vazquez  
**Faculty Member:** Jacquelyn Trejo Torres

*Course Name: BUS 1010.03 (F23-Regular) Business Freshman Experience*

Project Summary: Our objective seeks to innovate sustainable solutions to combat climate change effectively, specifically targeting large corporations by holding them accountable. Explores and exposes shady tactics of major companies such as Shell, Coca-Cola, and Amazon.

## Human Impact on Our Ecosystems

**Team Members:** Allison Lee, Dana Chinder, Jake Yamane, Allison Lee, Jennifer Flores, Dulce Carrasco

**Faculty Member:** Jacquelyn Trejo Torres

*Course Name: BUS 1010.03 (F23-Regular)  
Business Freshman Experience*

**Project Summary:** Finding solutions to preserve our ecosystems that are becoming urbanized and damaged due to human intervention. Most people don't fully understand how important these ecosystems are to them and are causing them to decay due to human activity.

## Hunger in Nigeria

**Team Members:** Quenton Bangunan, Max Xiao, Gavin Gorup, Tyler Morin

**Faculty Member:** Ashley Ysais

*Course Name: Business Freshman Experience, Business 1010, Section 5*

**Project Summary:** Find the main causes and solutions to hunger in Nigeria.

## The Hunger Crisis in Eastern Africa

**Team Members:** Kelly Chen, Melanie Lopez, Edward Ramirez

**Faculty Member:** Ashley Ysais

*Course Name: Business Freshman Experience, Business 1010, Section 5*

**Project Summary:** Speaking about the hunger crisis in Eastern Africa (+Yemen), the causes of the crisis, and how the governments of the countries could solve the crisis in each country.

## The Impacts of Public Transportation on Sustainable Living for the Middle Class in LA

**Team Members:** Daniel Wang, David Chau, Kayla Saucedo, Ronnie Zhang

**Faculty Member:** Ashley Ysais

*Course Name: BUS 1010, Section 6*

**Project Summary:** Our goal is to promote sustainable development in the transportation in Los Angeles. Los Angeles suffers from a big middle-class dilemma in which higher income individuals avoid using public transportation. Through our research we hope to promote public transportation to all income levels.

## The Importance of Clean Water and Sanitation

**Team Members:** Krithi Koduru, Daniel Sadi, Peter Lozano, Carter Woo, Flora Baca, Julian Barraza

**Faculty Member:** Jacquelyn Trejo Torres

*Course Name: BUS 1010.03 (F23-Regular)  
Business Freshman Experience*

**Project Summary:** Our poster will discuss goal #6 of the UNSG which is clean water and sanitation. We will discuss the initial problem, challenges, and potential solutions of goal #6.

## The Importance of a High School Degree in Los Angeles County

**Team Members:** Aneesh Patil, Saul Sanchez, Axel Sernas, Samantha Macias, Suveer Sood, Olivia Godbold

**Faculty Member:** Jacquelyn Trejo Torres

*Course Name: BUS 1010.03 (F23-Regular)  
Business Freshman Experience*

Project Summary: Los Angeles is one of the most recognizable cities in the world, but the county still struggles with education. As of 2020, approximately 19% of males and 20% of females over the age of 25 don't have a high school degree in Los Angeles County.

## **Integrating Practical Life Skills into the High School Curriculum**

**Team Members:** Michael Tsai, Nyla Skinner, Nathan Zermeno, Jimena Flores , Jamie Pyun  
**Faculty Member:** Marcus Corra

*Course Name: BUS 1010 Business Freshmen Experience*

Project Summary: Our explanation and proposed ideas of what specific "life skills" can be taught side by side with core subjects within high school courses. These life skills should be essential to know later in life and will be beneficial to be taught and practiced while students are still in school.

## **Join The Fight Against Hunger!**

**Team Members:** George Rangel, Alex Quevedo Hernandez, Monserrat Moreno, Jose Maldonado, Justin Redfield  
**Faculty Member:** Jacquelyn Trejo Torres

*Course Name: BUS 1010.03 (F23-Regular) Business Freshman Experience*

Project Summary: "Join the Fight Against Hunger" aims to gather individuals and communities in a global effort to reduce the starvation around our communities. This movement seeks to raise awareness and inspire action. By joining this cause, people who are contributing make a difference in the fight against hunger.

## **Leveling Up: The Impact of Team-Based Competitive Gaming on Teamwork and Leadership Skills**

**Team Members:** Avo Kurdoghlian, Richard Vines, Mike Guerra, Kaung Htet  
**Faculty Member:** Maha Ghosn

*Course Name: Marketing Research (IBM 3302.04)*

Project Summary: The poster will display data and graphs that showcase the impact playing team-based competitive games has on the development of important skills that can benefit in college students future careers including, communication, teamwork, leadership, and more.

## **Life Below Water**

**Team Members:** Anthony Hernandez, Gabriel Gonzalez, Agustin Gonzalez, Raquel Hernandez  
**Faculty Member:** Ashley Ysais

*Course Name: BUS 1010*

Project Summary: How U.S. grocery stores can reduce plastic materials that end up in our oceans and how this would be beneficial.

## **Lighting Up Low-Income Communities in California**

**Team Members:** Willie Chang, Regina de los Santos, Emily Tzou , Sydney Toyama  
**Faculty Member:** Marcus Corra

*Course Name: Business 1010.07*

Project Summary: This project discusses an overall analysis and summary of alternative energy sources to discover the most beneficial method to offer low-income cities in California.

## **A New Way To Live**

**Team Members:** Katherinne Chavez Sandoval, Brandon Chung, Alexander Darnell, Jacob Carbajal, Brayam Garcia, Gavin Palmer

**Faculty Member:** Jacquelyn Trejo Torres

*Course Name: BUS 1010.03 (F23-Regular)  
Business Freshman Experience*

Project Summary: Sustainable cities need to be goal to achieve, without it there is no place for future generations to live. With the collective efforts and innovative solutions, building sustainable cities and communities that thrive for the future generations to come is more than possible.

## **Nuking Fossil Fuels**

**Team Members:** Joshua Owen, Ashley Sandoval, Jose Sanchez, Fernando Silva, Ryann Frye

**Faculty Member:** Jacquelyn Trejo Torres

*Course Name: BUS 1010.03 (F23-Regular)  
Business Freshman Experience*

Project Summary: With the recent of achievement by U.S. scientists of a net energy gain in nuclear fusion this could be the future of energy for everyone, leaving fossil fuels behind.

## **Oceanic Life**

**Team Members:** Antranig Tawekjian, Renee Lee, Leonard King, Viviana Armenta, Rolando Laines

**Faculty Member:** Jacquelyn Trejo Torres

*Course Name: BUS 1010.03 (F23-Regular)  
Business Freshman Experience*

Project Summary: The ocean can provide people to live underwater in submarines that are powered by natural resources that are

provided from the ocean. Living underwater promotes marine research, reduces population growth, and provides safety from natural disasters. Food, medicine, and biofuels are all important things that the ocean supplies while also assisting in trash breakdown. Technology can enhance marine life, which can make oceans cleaner for both marine and human life.

## **Overproduction and Resource Management in California**

**Team Members:** Ximena Galindo, Anthony Vasquez, Hector Gurrola

**Faculty Member:** Ashley Ysais

*Course Name: Bus 1010 Sec 5*

Project Summary: Centralized on the over production and consumption of renewable and non renewable resources in California. As well as the problems that occur because of over production and consumption of viable resources that lead to increased waste of these resources in California

## **The Perfect Wrap**

**Team Members:** Brenda Cruz, Alyssa Ruiz, Andrez Meza, Jane Agcaoili

**Faculty Member:** Ashley Ysais

*Course Name: BUS 1010 Section 6*

Project Summary: We are discussing excessive secondary packaging in pre-packaged food and ways to minimize it.

## **Plastic Pollution in the Pacific Ocean**

**Team Members:** Lydia Gutierrez, Joseph Gregory, Eddie Fierro, Franky Torres, David Mena

**Faculty Member:** Marcus Corra

*Course Name: Business 1010.07*

Project Summary: How plastic pollution effects the Pacific Ocean and California residents and how to reduce ocean plastic pollution.

## **Poverty Affects Student Quality**

**Team Members:** Jishnu Dondapati, Tanya Garcia, Angelina Jao, Ayele Vallatine, Mike Liu  
**Faculty Member:** Raquel Alva

*Course Name: BUS 1010, Section 02*

Project Summary: A student's mental health is compromised by poverty forcing them to balance their personal issues with their academic obligations and extracurricular activities. Our goal is to open up opportunities for students to focus on school while providing financial benefits and aid.

## **Reducing the Risks of Disasters in Cities and Communities**

**Team Members:** Alexander Nguyen, Bryan Njomo, Ryan Wong, Jugal Mohan, Alexis Jacobo  
**Faculty Member:** Jacquelyn Trejo Torres

*Course Name: BUS 1010.03 (F23-Regular)  
Business Freshman Experience*

Project Summary: There are many different types of disasters such as natural disasters, man-made disasters, complex emergencies, pandemics, and technological disasters. To lessen their effects and speed up recovery, disasters require coordinated efforts by the government, first responders, humanitarian organizations, and the impacted population.

## **Rise of Singapore's Trade and Diplomacy**

**Team Members:** Gisselle Mendez, Justin Sullivan-Pascual, Jordan Guan  
**Faculty Member:** Ashley Ysais

*Course Name: BUS 1010, Section 6*

Project Summary: An analysis in how Singapore used its geographical location to improve its economic development via trade with other countries in Asia.

## **San Pedro Port: Pollution**

**Team Members:** Eddy Tapia, Adam Kim, Abulfazl Rizvi, Evens Pierrenoel  
**Faculty Member:** Raquel Alva

*Course Name: Bus 1010, Section 02*

Project Summary: The air quality in San Pedro is terrible and ports are one of the major contributors to pollution. Our focus is how we are able to figure out ways in which San Pedro Ports can emit less pollution and be more efficient.

## Should the U.S. Follow Countries that Already Have Access to Universal Health Care?

**Team Members:** Katie Shuai, Jonghoon Jeong, Shahid Najvi, Marty Herrera, Gilbert Betancourt

**Faculty Member:** Jacquelyn Trejo Torres

*Course Name: BUS 1010.03 (F23-Regular)  
Business Freshman Experience*

**Project Summary:** While other developing countries already have access to universal healthcare, should the U.S also take part in this universal coverage in order to provide good health and well-being to all citizens of the United States? Do the pros outweigh the cons of providing universal healthcare?

## Solving Clean Water & Sanitation

**Team Members:** Israel Solis Antonio, Kimberly Knights, Andrew Grimaldo, Daniel Jin, Ashish Coorapati

**Faculty Member:** Jacquelyn Trejo Torres

*Course Name: BUS 1010.03 (F23-Regular)  
Business Freshman Experience*

**Project Summary:** On the poster we will talk about how we plan to solve the ongoing issue of unclean water and sanitation that people drink and live in every day in third world countries.

## A Study on Hunger in Los Angeles

**Team Members:** Wesley Lin, Kelly Yu, Omar Gonzalez, Natalie Galvan, Mal Kim

**Faculty Member:** Raquel Alva

*Course Name: BUS1010 (F23 - Regular)*

**Project Summary:** Our goal is to help L.A. colleges in need to upgrade their care centers, food programs, get more funding for the programs and make sure students

and administration know how to get access to these programs if needed. We also want to figure out how L.A. Colleges can benefit from care centers and food programs.

## A Sustainable Land Revival

**Team Members:** Nathan Tan, Juan Campos, Nathan Tan, Josue Curiel, Barbara De Leon Sanchez

**Faculty Member:** Jacquelyn Trejo Torres

*Course Name: BUS 1010.03 (F23-Regular)  
Business Freshman Experience*

**Project Summary:** Promoting the use of having a better and safer ecosystem. Learning the causes and problems of our environment and ecosystem.

## Transportation in California

**Team Members:** Gabriel Torres, Francin Acosta, Julian Beker, Esmeralda Gonzalez Garcia

**Faculty Member:** Ashley Ysais

*Course Name: BUS, 1010, section 5*

**Project Summary:** Clearly informs the usefulness of innovation in transportation in California and also the downside of how our transportation now affects our infrastructure in California. Compare and contrast the benefits from other states or country's that have already incorporated this practice.

## Transportation Organization

**Team Members:** Jacob Molinelli, Theone Green, Kyle Truong, Diego Garcia Perez, Anish Mandaleeka

**Faculty Member:** Professor Raquel Alva

*Course Name: BUS 1010 Section 02*

Project Summary: This poster examines the key aspects that influence Cal Poly Pomona students' view regarding the reliability of Public Transportation, and explores the examined aspects to improve public transportation.

## **UN's Healthcare Equality Plan for Underserved Communities**

**Team Members:** Charlie Border, Kayla Caruth, Joanna Santoyo, Christian Dantzler, Natalia Cano  
**Faculty Member:** Jacquelyn Trejo Torres

*Course Name: BUS 1010.03 (F23-Regular) Business Freshman Experience*

Project Summary: The poster will cover the goals and indicators of the UN's 3.8 target. It will integrate research and documentation on the impact that achieving these goals would have, and the progress that has been made so far. The poster will leverage statistics and personal accounts to compel readers.

## **Under the Sea**

**Team Members:** Jonathan Portillo, Sarah Icamen, Aidan Cong, Mia  
**Faculty Member:** Ashley Ysais

*Course Name: BUS 1010, Section 6*

Project Summary: Our team's presentation will be about the problems that underwater ecosystems face with bleached corral reefs. We will talk about what has caused corral reefs to become bleached and what are some actions we can take to fix this problem.

## **Unlocking Customer Loyalty: A Comprehensive Market Research Study**

**Team Members:** Joy Peng, Liliana Martinez, Cynthia Pat, Christine Ramos

**Faculty Member:** Maha Ghosn

*Course Name: Marketing Research, IBM3302.04-1*

Project Summary: Join our college student group to explore our market research on customer loyalty programs. Discover strategies and insights for boosting customer loyalty, with real-world case studies and research methodologies. Learn to create effective loyalty programs and gain skills for shaping the future of marketing and customer relations. Don't miss out!

## **Unmasking the Pandemic: COVID-19's Impact on Female Employment**

**Team Members:** Stella Lim, Randz Nebalasca, Hailey Guillen, Candice Alonzo  
**Faculty Member:** Ashley Ysais

*Course Name: BUS 1010 Section 6*

Project Summary: "Unmasking the Pandemic: COVID-19's Impact on Female Employment" examines how the COVID-19 pandemic has played a role in the decline of female employment rates. We delve into how women in L.A. County have been affected and what solutions offer equal opportunities in the workforce.

## **Unveiling the Impact: Gender Dynamics in College Campuses Sexual Assault Reporting**

**Team Members:** Matthew Ayala, Rhiannon Linzay, Daniel Guatemala, Alicia Dean, Paulina Burgos  
**Faculty Member:** Raquel Alva

*Course Name: BUS 1010*

**Project Summary:** Our study analyzes the complex relationships between gender and the reporting of sexual assaults on college campuses. Students are particularly vulnerable to sexual assault, and there are considerable differences in the ways that people of different genders choose to disclose and handle these kinds of situations. In order to fully comprehend this intricate subject, we carried out an extensive study that included data analysis and surveys.

## **Water Distribution for Homelessness During Warmer Climates**

**Team Members:** Marcus Sarmiento, Daniel Urenda, Roman Miller, Carlos Menera  
**Faculty Member:** Marcus Corra

*Course Name: Intro to Business, BUS 1010, Section 07*

**Project Summary:** Our poster will focus on the impacts that warmer climates have on the distribution of water for homeless individuals, as well as possible solutions that could be implemented to improve the situation.

## **We Want Change, Just Not Climate Change**

**Team Members:** Ethan Mangente, Carrie Kao, Brandon Chung, Dawson Chung

**Faculty Member:** Ashley Ysais

*Course Name: BUS 1010 Section 6*

**Project Summary:** How L.A is affected by climate change, in terms of human health and wellness. We also look for solutions to solving this evergrowing problem which is climate change.

## **What Effect Does Human Development Have on Biodiversity in California?**

**Team Members:** Dominic Gewecke, Gordon, Kirsten, Kaden, Melissa  
**Faculty Member:** Marcus Corra

*Course Name: Intro to Business, BUS 1010, Section 07*

**Project Summary:** Human activities have a significant impact on biodiversity, as they cause species relocation, fish population depletion, changes in seasonal events, and ecosystem disruption. These activities also include habitat loss, pollution, overfishing, and climate change.

## **What does it mean to be a manager in an organization? Frontline versus top-level of Management**

**Team Members:** Ethan Venerable, Anna Thea Knaus, Janine Lau, Emily Alonso  
**Faculty Member:** Dr. Preeti Wadhwa

*Course Name: Principles of Management MHR 3010-02*

We interviewed managers at different levels and industries to understand how management concepts play out in the real work place. We gained insight on how these managers effectively performed their



functions and responded to challenges in their organizational environment. Our project also offered networking opportunities with professionals in our fields.

### **Where to Build to Solve the Crisis: Identifying Sites for Affordable Housing Development in Pomona**

**Team Members:** Anthony Orlando, Margaret Anderson, Nicole Cromwell, Enrique Jimenez, Adam Wakoli, Cristopher Zavala

**Faculty Member:** Anthony W. Orlando (FRL) & Rita Kumar (TOM)

*Course Name: BUS 4990-03 (81082)*

**Project Summary:** Southern California's housing shortage is significantly out of control. We are working on a solution in collaboration with the Real Estate Research Council to end the lack of availability of affordable housing by identifying under-utilized commercial properties and vacant lots for potential development in the City of Pomona.

### **Why Life Below Water is Important?**

**Team Members:** James Lee, Martin Gonzalez, Lisseth Camacho, Gabby Flores, Brynn Denbo  
**Faculty Member:** Jacquelyn Trejo Torres

*Course Name: BUS 1010.03 (F23-Regular) Business Freshman Experience*

**Project Summary:** Bringing immediate attention to ocean preservation and the negative effects of ocean pollution.

### **Zero Poverty in Los Angeles**

**Team Members:** Ronit Sharma, Sofia Gutierrez, Isabella Lopez, Colton Verret  
**Faculty Member:** Ashley Ysais

*Course Name: BUS 1010*

**Project Summary:** There are vast amounts of people who are negatively affected of their daily life mainly due to their poor circumstance they are living under. Adults make up the majority of the homeless population in Los Angeles and so our mission is to develop effective methods that can provide the homeless opportunities to end their suffrage and earn back their normal lifestyle.

## **College of Education and Integrative Studies**

### **Influence of Racism in the Economy**

**Team Members:** Cynthia Perez, Andrew Tran, Long Hoang, Emma Duran  
**Faculty Member:** Dr. Hyeryung Hwang

*Course Name: IGE1020H.01*

**Project Summary:** A depiction of the role of racism in the development of the student debt, housing crisis, and 2008 financial crash. In addition, a showcase of possible solutions to solve this issue.

## **Psycho (1960): Stereotypes and the Popularity of Horror**

**Team Members:** Lorelei Claxton  
**Faculty Member:** Jeffrey Roy

*Course Name: Liberal Studies Showcase, LS 3021, Section 2*

**Project Summary:** This paper explores the popularization of horror and the inception of stereotypes in the genre through the critique of Alfred Hitchcock's "Psycho" (1960). The film's antagonist, Norman Bates, exhibits vague characteristics that reflect the general public's fear of homosexuality, transsexuality, and disability through the gaze of the Hays Code.

## **"Shattered" by Natalie Layseca**

**Team Members:** Natalie Layseca  
**Faculty Member:** Jeff Roy

*Course Name: Liberal Studies Student Showcase*

**Project Summary:** This piece is inspired by the painting "Vanity" by Membling, which I studied in my LS 2011 class while reading "Ways of Seeing" by John Berger. The book examines the way women are portrayed in art, specifically by male artists. In the examination of "Vanity" Berger states that the woman is condemned for smiling at the sight of herself nude in a mirror, though a man chose to depict her that way. I was inspired by his analysis.

## **Shrek: Ogre-rated Stereotypes**

**Team Members:** Nate Bolanos  
**Faculty Member:** Dr. Jeff Roy

*Course Name: LS 3021/Liberal Studies Student Showcase*

**Project Summary:** This paper examines how the childhood cinematic film series, Shrek, paved the way for countering stereotypes on gender status and social culture norms.

## **Sol**

**Team Members:** Isaiah Hessler, Harini Poothari, Emily Pham, Chloe Alchin  
**Faculty Member:** Dr. Hyeryung Hwang

*Course Name: IGE 1020H-01*

**Project Summary:** An artistic representation of intrapersonal human connections across social, economic, and emotional boundaries.

## **The Power of "Us"**

**Team Members:** Emilee Acosta, Lucy Alexandre, Maya Franco  
**Faculty Member:** Dr. Hyeryung Hwang

*Course Name: IGE 1020.01H Engaged Education: Integrating Knowledge, Learning, and Success*

**Project Summary:** Our goal is to depict different fabrics in a way that represents oppressed working conditions in the textile industry and to outline the struggle that their unions endured, but to also highlight their power as an agent for positive change.

## Unity Across Differences

**Team Members:** Khanh Phan, Yaman Sebai, Jocelyn Gomez, Samuel Lena  
**Faculty Member:** Dr. Hyeryung Hwang

*Course Name: IGE1020H*

**Project Summary:** It is important for us to acknowledge people's differences and appreciate them--not despite these qualities, but in addition to them. Our different qualities are what make for a great team. Together we are able to create a world where everyone can utilize their different strengths to contribute to a more well-rounded, just society.

## We Can Swim Together

**Team Members:** Adrian Perez, Darren Kao, Tyler Kam, Alyssa Surendranath  
**Faculty Member:** Hyeryung Hwang

*Course Name: IGE1020H*

**Project Summary:** Showing that there is a way for everyone to prosper and there does not need to be only one group benefiting. Discussing why it is important to invest in the public good and why people need to be educated on the topic.

# College of Engineering

## A.C.T. (Aquatic Collector of Trash) Anaerobic Digestion

**Team Members:** Yudai Shimizu, Kyle Yang, Crystal Lieu, Naomi Ng  
**Faculty Member:** Elvira Trabanino Ramirez

*Course Name: Engineering, Society, and You, EGR1000, 11*

**Project Summary:** To combat ocean pollution a large platform above the surface of the ocean that contains a fully automated recycling facility on top will be built. It will filter through trash brought in by solar powered trash collecting devices that are guided by satellite

**Team Members:** Mak Nagata, Matthew Diez, Anthony Huang, Anthony Tsoi  
**Faculty Member:** Dr. Simeng Li

*Course Name: Environmental Remediation CE4241.01*

**Project Summary:** Show the process of anaerobic digestion, it's effect on manure, and it's environmental impact.

## Anaerobic Digestion For Treatment of Manure

**Team Members:** Jamee Bates  
**Faculty Member:** Simeng Li

*Course Name: CE 4241-01: Environmental Remediation*

**Project Summary:** Raw or fresh manure can be valuable for agricultural use, but it must first be treated in order to change its nutrient content, address pathogenic microorganisms, and potentially harvest useful byproducts.

## **Autonomous Trams for Reduction in Inner-Campus Commute Times**

**Team Members:** Joahna Ibarra, Carl Borja, Zevin Herrmann  
**Faculty Member:** Elvira Trabanino Ramirez

*Course Name: Engineering, Society, and You, EGR1000L, Section 6*

**Project Summary:** This project aims to solve the problem of limited transport within campus by implementing consistent autonomous trams. This solution aims to make a more efficient and more accessible form of transportation that targets the inner-campus rather than around campus as the shuttle does.

## **Beach Waste Disposal Robot Powered by Computer Vision**

**Team Members:** Aidan Aparicio, Ryan Hashemi, Haylee Ly  
**Faculty Member:** Elvira Trabanino Ramirez

*Course Name: Engineering, Society, and You, EGR 1000, Section 11*

**Project Summary:** To combat ocean waste, a robot able to detect trash washed up on the shore and collect it using computer vision will be built. The robot will be powered by solar panels and will dock to a container where it will release its contents for people to properly dispose of.

## **Before the Open Water**

**Team Members:** Justin Chan, Kevin Gong, Ethan Tambunan, Enrique Dominguez  
**Faculty Member:** Elvira Trabanino Ramirez

*Course Name: EGR 1000 Engineering, Society, and You*

**Project Summary:** Our poster will be describing our solution which is to use a net to capture ocean waste before it hits the open ocean. Not only that our poster will give our prior research and data we found to back up our solution.

## **Billy's Solar Shades**

**Team Members:** Denise Palacios, Jasmine Tran, Adanely Morocco Montanez, Esmeralda H Acosta  
**Faculty Member:** Elvira Trabanino Ramirez

*Course Name: Engineering, Society, and You: Lab, EGR1000L, Section 7*

**Project Summary:** Our poster will talk about how to increase shades around the campus by creating solar panel structures over parking lots. This will provide benefits to the students and helping slow down global warming.

## **BroncoGo**

**Team Members:** Megan Carrigan, Gavin Capati, Isaiah Perez, Karim Yowkeem  
**Faculty Member:** Elvira Trabanino Ramirez

*Course Name: Engineering, Society, and You Lab, EGR1000L, Section 6*

**Project Summary:** BroncoGo is an easier way for college students at Cal Poly Pomona to travel faster using electric scooters. Golf carts driven by specialists will also be available on campus to transport students from location to location.

## **CarSpace**

**Team Members:** Jacob Whiteman, Tiffany Ha, Nathan Wong, Jason Anyakpor  
**Faculty Member:** Elvira Trabanino Ramirez

*Course Name: EGR 1000L.04*

Project Summary: This app will use a sensor-to-system functionality that allows users to determine where the best parking spots are located based on their selected region.

## **Clean Seas Initiative: Oil Surface Filtration near Offshore Rigs**

**Team Members:** Ismael Zuniga, Maria Rajha, Jason Anyakpor, Merodac Ghebreweldi

**Faculty Member:** Professor Trabanino Ramirez

*Course Name: EGR 1000.11*

Project Summary: The "Clean Seas Initiative" is a vital project that employs the use of filtration technology. This initiative aims to clean up oil spills from deep sea oil rigs and reduce the amount of hazardous waste by limiting environmental damage caused by offshore drilling.

## **Combating the Rising Heat**

**Team Members:** Daniel See, Nichole Arancibia-Furtado, Analise De Guzman  
**Faculty Member:** Elvira Trabanino-Ramirez

*Course Name: EGR,1000L, 7*

Project Summary: Rising heat and global warming have become a concern for CPP Students. In order to combat this, we propose using tent-like structures consisting of solar panels and mist turbines. This provides students with shade, power, and a cooler atmosphere.

## **D.I.P.S (Drone Integrated Parking Structure)**

**Team Members:** Andrew Nunez, Joshua Boddy, Raul Beltran, Henry Tran, Jacob Sahagun

**Faculty Member:** Elvira Trabanino

*Course Name: EGR 1000L section 4*

Project Summary: Parking at Cal Poly Pomona will be more efficient using a drone and app system. By having drones log open and closed spaces, it will allow people to reserve parking spaces, as well as improve security with drone monitoring.

## **Electrifying Transportation on Campus**

**Team Members:** Scott Le, Ethan Chiou, Angel Perez, Austin Slicton

**Faculty Member:** Elvira Trabanino Ramirez

*Course Name: Engineering, Society, and You 1000L Section 4*

Project Summary: On some occasions the walking distance to classes from parking lots leads to arriving late. Lack of parking spaces is also the cause. Adding stations of electric scooters will allow students to minimize their walk time and decrease the amount of time students are parked.

## **E Scooter Charging and Rental**

**Team Members:** Jishnu Dutta, Alex Ma, Edilmer Donis Fon, Riley Tye  
**Faculty Member:** Elvira Trabanino Ramirez

*Course Name: EGR 1000L.06 (F23-Regular) Egr Society and You Lab*

Project Summary: A study into how to optimize transport around CPP by using electric scooters combined with a dock style charging station. These charging stations would then be placed strategically around campus for easy rentals.

## **Farm to Table: Manure Runoff Remediation**

**Team Members:** Kashyap Shah  
**Faculty Member:** Simeng Li

*Course Name: Environmental Remediation, CE4241, Section 1*

**Project Summary:** Exploring the novel efforts of manure breakdown to limit the sources of eutrophication.

## **From Waste to Construction**

**Team Members:** Jai Sutaria, Diego Urias, Joshua Paul De Guzman, Bryan Jerque  
**Faculty Member:** Elvira Trabanino Ramirez

*Course Name: EGR 1000 Section 11*

**Project Summary:** The aim of the project is converting plastics from beach waste into usable construction materials. This project will focus on building a machine which can convert plastics into construction materials such as bricks, sheets, and windows that could be utilized in buildings, homes, and more.

## **The Greenery**

**Team Members:** Braden Pugh, Juan Ayala, David Reyes, Braden Pugh, Maria Villagrana Sandoval  
**Faculty Member:** Elvira Trabanino-Ramirez

*Course Name: EGR,1000L, 7*

**Project Summary:** Global warming is becoming a bigger problem everyday, and we need more shade for cooler areas. Our solution that we decided as a team was to plant more trees around campus and possibly put misters around for people to cool off.

## **Greenhouse Community Building**

**Team Members:** Bianca Maranan, Veena Khasraw, Bianca Maranan, Martina Roufaeil

**Faculty Member:** Elvira Trabanino-Ramirez

*Course Name: EGR,1000L, 7*

**Project Summary:** Our solution is to build a green-house community building behind the student center. This building will be built sustainably, limiting cost, building time, and waste let into the atmosphere. Additionally, the greenhouse incorporated into the structure will help release more oxygen into the atmosphere. The building itself will not only include more shade but also provide a social area for students to interact and study.

## **Implementation of Additional Side Roads and Replacement of Traffic Lights Over Stop Signs at Cal Poly Pomona**

**Team Members:** Jimmy Hyunh, Jaime Ramirez, Noah Rodriguez, Elias Reloj  
**Faculty Member:** Ms. Trabanino

*Course Name: EGR 1000 Lab Section 4*

**Project Summary:** Adding side roads leading to main roads and stop lights rather than stop signs, doesn't expand the capacity of parking at CPP. However, there would be enough space as more parking lots could be accessible and encourage people to branch out, allowing commuters not to wait for highway access.

## **Manure Management**

**Team Members:** Kiara Cruz, Rebekah Becerra  
**Faculty Member:** Simeng Li

*Course Name: Environmental Remediation 4241.01*

Project Summary: Manure management research based on assignments in 4241.01

## Manure Management

**Team Members:** Yarimar Sandoval, Bola Soliman, Guadalupe Diaz  
**Faculty Member:** Dr. Simeng Li

*Course Name: CE 4241 - 01*

Project Summary: Discuss manure management by implementing technology/method. As well as discuss the benefits and drawback of the technology/method.

## OCEAN CLEANER 3000

**Team Members:** Dylan Kha, Myles Staples, Deshawn Liwanag, Doil Kim  
**Faculty Member:** Elvira Trabanimo Ramirez

*Course Name: EGR 1000 Section 11*

Project Summary: To solve the problem of ocean pollution there will be a fully automated boat that will gather the plastic waste and other foreign objects/ substances in the ocean.

The boat will go at certain times of the day and collect the trash in its conveyor belt as it gets trapped on the barrier.

## Parking Dilemma

**Team Members:** Advik Kannivadi, Michael Reyes, Kevin Aviles, Nicolas Bunge, Isaac Aguirre  
**Faculty Member:** Elvira Trabanino

*Course Name: Engineering, Society, and You EGR1000L Section 4*

Project Summary: Adding sensors to existing parking structures with solar panels added on the top floor and the open parking lots throughout the campus.

To prevent wasting time students an app will be implemented that will display the available spots in the parking structure.

## Poly Garage

**Team Members:** Ulises Ramirez, Damian Cruz, Gilbert Martinez  
**Faculty Member:** Elvira Trabanino

*Course Name: EGR 1000L Section 6*

Project Summary: The solution proposed is two separate means of transportation: non-electric and electric vehicles, to increase transportation accessibility and efficiency to get around campus. Students could rent normal bikes, scooters, and skateboards at lower prices while also having the option to rent the electric version of these vehicles at higher prices.

## Poly Park

**Team Members:** Chanse Tu, Alan Solorzano, Ara Babigian, Kai Milby, Angel Santana  
**Faculty Member:** Elvira Trabanino Ramirez

*Course Name: EGR1000L.04*

Project Summary: In order to improve traffic around campus, rentable modes of transportation such as scooters and bikes can be installed in lots further from campus for easier transport from parking lots to campus for students. Rentable transportation offers an incentive to students to choose to park further from campus in exchange of being able to travel around campus faster and easier.

## Poly Rail

**Team Members:** Miles Bayley, Christopher Pineda-Alvarado, Waleed Tahan, Cody Lor  
**Faculty Member:** Elvira Trabanino Ramirez

*Course Name: Engineering Society and You Lab, 1000L, Section 6*

**Project Summary:** The Poly Rail will be a replacement for the current unreliable Bronco Shuttle. The Poly Rail is an elevated vehicle conducted by drivers. The Poly Rail will be more reliable than the current shuttle system due to the fact that it will be quicker to move people around.

## Project Noodle

**Team Members:** Cameron Collins, Maia Stahl, Alex Assal, Bryton King, Cameron Collins  
**Faculty Member:** Elvira Trabanino Ramirez

*Course Name: Egr Society and You Lab, EGR1000L, 4*

**Project Summary:** Our main goal in Project Noodle is to create a new car "super-structure" that is over three times the size of the car structure in lot J. We will be creating it right behind the current one, and adding modifications in order to improve on the previous one while making it easier and more convenient for students.

## Reforming Cal Poly Pomona Campus to Fight Global Warming

**Team Members:** John Rofael Caldwell, Steven Aintablian  
**Faculty Member:** Elvira Trabanino Ramirez

*Course Name: Egr Society and You, 1000L, 07*

**Project Summary:** Placing solar panels over the parking lots of CPP which will provide more shade for a large non-shaded part of campus, but will also be a source of clean energy for the school. Also planting trees instead of using lawns will trap more carbon and produce shade.

## RevolvePark: Revolutionizing Urban Parking

**Team Members:** Peter Gonzalez, Joseph Curren, Andrew Jackson, Johnathan Ko  
**Faculty Member:** Elvira Trabanino Ramirez

*Course Name: EGR 1000L.04*

**Project Summary:** RevolvePark is a groundbreaking solution designed to tackle urban parking challenges head-on. Our innovative revolving parking structure is reshaping the way cities approach parking issues, offering unmatched convenience, space efficiency, and a fresh perspective on urban mobility. This will help students get to class on time, decrease the amount of traffic, and improve the campus immensely.

## R.P.G.(Rocket Propelled Garbage)

**Team Members:** Dylan Moore, Isabella Orellana, Geomar Ruano  
**Faculty Member:** Elvira Trabanino

*Course Name: EGR1000*

**Project Summary:** The goal of the project is to create a way of collecting trash in the ocean and disposing of it in space. A boat with large nets will be used to collect the trash. The trash will then be loaded onto a rocket and launched into the sun

## Shade Solution

**Team Members:** Ryan Briegel, Christopher Duenas, Daniel Bassilios, Rafael Escamilla



## **Andrade**

**Faculty Member: Elvira Trabanino Ramirez**

*Course Name: Engineering, Society, and You, EGR1000L, Section 7*

Project Summary: We are going to discuss solutions to a lack of shade on campus and are proposing to plant some trees on some crowded areas on campus and add some solar panels as roofs so it can give shade and gather solar energy from the sun for further powering the institution.

## **Smart Mobility: Campus-Centric Electric Vehicle Rental System**

**Team Members: Andy Zhang, Tanay Sadhwani, Nicolas Rodriguez, Robert Rodriguez**

**Faculty Member: Elvira E. Trabanino Ramirez**

*Course Name: Engineering, Society, and You: Laboratory, EGR1000, 6*

Project Summary: There is the lack of efficient and available transportation for Cal Poly Pomona students. In order to solve this problem a system of electric bike and scooter stations will be proposed. These stations will form a radius where the vehicles may be used inside.

## **Solar Shade for Cal Poly Pomona**

**Team Members: Edwin Rosas, Nicholas Kalmar, Bryan Hoang, Gavin Lopez**  
**Faculty Member: Elvira Trabanino Ramirez**

*Course Name: EGR1000L, Section 7*

Project Summary: How to combat global warming and increasing temperature? How can we kill two birds with one stone? We can utilize solar panels as both shade and energy production in open areas around campus such as parking lots and sporting fields.

## **The Trolley Change**

**Team Members: Maria Moreno Cortes, Jennie Perez**  
**Faculty Member: Elvira Trabanino Ramirez**

*Course Name: Engineering Society and You: Laboratory, 1000L*

Project Summary: At CPP, students don't have an effective way to get around campus. The solution: Building facilities where students could purchase a ride on a trolley. Workers will be driving these electric carts to specific stops in common areas.

## **What a Catch!**

**Team Members: Ayla Baghirova, Raymond Ornelas, Edu Beltran, Frankie Castro Espinoza**  
**Faculty Member: Elvira Trabanino Ramirez**

*Course Name: Engineering, Society, and You, EGR 1000, 11*

Project Summary: Fisherman often catch recyclable materials/trash in their nets while they are out on the job. Oftentimes, out of decency, they will dispose of the waste and recycles properly. The proposed solution is to mandate that fisherman catch a certain amount of materials while they are out catching fish.

# College of Environmental Design

## Analyzing and Determining Reparations for Indigenous Peoples in the U.S.

**Team Members:** Madeleine Limuti, Marleny Cervantes, Rachel Lee, Brandon Young, Evita Marquez, Lesley Z. Ambriz  
**Faculty Member:** Dr. Annalise Fonza

*Course Name: URP/EWS 1051.03 Ethnic Communities, Places, and Urban Planning*

**Project Summary:** The poster will define reparations as they relate to indigenous people in the U.S. and will propose courses of action for different cities where calls for reparations would be historically valid.

## Exploring Reparations for the Jewish Community

**Team Members:** Gabriel Sobolew  
**Faculty Member:** Dr. Annalise Fonza

*Course Name: URP/EWS 1051*

**Project Summary:** Our poster will be exploring reparations given to the Jewish community after the Holocaust. How these reparations were handed out, and what form the reparations took.

## Reparations for Mexican Americans

**Team Members:** Aubree Pirog, Amanda Terrazas, Leyla Garcia, Timothy Santos, Mohul Sarkar, Daniel Garrido  
**Faculty Member:** Annalise Fonza

*Course Name: Ethnic Community, Places, and Urban Planning 1051 section 03*

**Project Summary:** Our poster defines reparations and its significance to Mexican Americans. It also discusses how reparations have been made or need to be made moving forward to make amends.

## Reparations for Japanese Americans

**Team Members:** Gabriel Elepano, Jonmichael Hsu, Juan Reyes, Jullene Zamora, Luis Alvarez, Zac Rodeheaver  
**Faculty Member:** Dr. Annalise Fonza

*Course Name: Ethnic Community, Places, & Urban Planning, URP/EWS 1051.03*

**Project Summary:** Our poster outlines the mistreatment of Japanese-Americans in 1942 following Executive Order 9066 which resulted in them being sent to internment camps. We explain how reparations have been granted so far, as well as how their mistreatment will continue to be rectified in the future.

# College of Letters, Arts, and Social Sciences

## Cal Poly International Language Learning Workshop

**Team Members:** Jenaveve Gregory,  
**Faculty Member:** Prof. Stephen James

*Course Name: Cal Poly Language Learning Workshop*

**Project Summary:** The Language Learning Workshop explores creative ways of learning language. Cal Poly students gather in small groups with international students to learn and practice everyday texts.

Cal Poly international students translate conversational texts into culturally appropriate language, assisting students in developing the ability use the language in relational contexts.

## Examining the Effects of Risk Perception on Health Behaviors in Multigenerational Households During the COVID-19 Pandemic

**Team Members:** Gaby Widjaj,  
**Faculty Member:** Dr. Amy Dao

*Course Name: ANT 4900*

**Project Summary:** COVID-19 has been proven to be highly contagious and fatal. However, considerable differences exist among the general public regarding the perception of risks associated with COVID-19, which consequently influences individuals' health behaviors and protective actions.

Our research examines how risk perception is formed in Multigenerational Households during the pandemic.

## Learning by Doing: Conversation Circles

**Team Members:** Jennifer Reyes, Oscar Avelar  
**Faculty Member:** Amalia Llombart

*Course Name: SPN4440 Spanish Language Assistantship*

**Project Summary:** We are going to present challenges that we face when teaching Spanish to learners of Spanish as a second or foreign language, being native speakers and heritage speakers of the language ourselves. And then, we are going to present how, through the conversation circles, we are developing skills to overcome these challenges.

## Los Angelitos

**Team Members:** Syndy Paredes, Lilia Guerra, Alejandra Medina, Samuel Quinteros  
**Faculty Member:** Dr. Salazar

*Course Name: Creative Writing Spanish World, 3160.01*

**Project Summary:** Creative shorts in Spanish.

## **Mapping suitability of Fruit and Nut Crops in California: Using Spatial Models to Project Suitability Under Climate and Water Scenarios**

**Team Members:** Dylan Russell, Jose L. Gonzalez, Angeles A. Marin Memije, Joshua Pool, Adam W. Wakoli, Dani Savinon  
**Faculty Member:** Dr. Gabriel Granco

*Course Name: Granco Research Lab/ Sustainability and Land use change*

**Project Summary:** The main focus of the poster is to express the potential impacts of climate change on cash crops throughout California in order to inform policy makers, land owners,

and land-use planners. Data has been collected and analyzed by several students in the research group and their results have been incorporated.

## **SPN 3160 Creative Writing Spanish World**

**Team Members:** Caroline Mendez, Josibeth De La Cruz, Natalie Gonzalez, Emely Castellanos  
**Faculty Member:** Claudia

*Course Name: SPN 3160.01 Creative Writing Spanish World*

**Project Summary:** Our different projects in our Spanish creative writing and our experience in this course.

# **College of Science**

## **Alzheimer's Disease**

**Team Members:** Mark Friedman, Justin Conopio, Steven Truong, Nathan Jose  
**Faculty Member:** Mai Jarasaki-Nara

*Course Name: KIN 2460*

**Project Summary:** Alzheimer's disease is a progressive disease beginning with mild memory loss and is the most common type of dementia. It can negatively affect your daily activities if it progresses too far. Symptoms can vary, but common ones include memory problems, trouble understanding visual images, and impaired reasoning or judgment.

## **Attention Deficit Hyperactivity Disorder**

**Team Members:** Hector Montoya, Mark Palacios, Abigail Tuzon, Brendan Wheeler, Lynn Horiguchi

**Faculty Member:** Mai Narasaki-Jara

*Course Name: KIN2460.01*

**Project Summary:** ADHD, or Attention Deficit Hyperactivity Disorder, is a neurodevelopmental condition characterized by persistent patterns of inattention, hyperactivity, and impulsivity. It affects individuals across the lifespan, often impacting academic, occupational, and social functioning.

Diagnosis and treatment typically involve a combination of behavioral interventions,

therapy, and, in some cases, medication to manage symptoms and improve daily life.

## Autism Spectrum Disorder

**Team Members:** Amelia Adamson, Joel Campa, Xavier Ruiz, Eileen Chuang  
**Faculty Member:** Dr. Mai Narasaki-Jara

*Course Name: KIN 2460 (71026)*

**Project Summary:** Autism is a complex neurobehavioral disorder. Symptoms usually onset before 3 years of age and include impairment in social behaviors and interactions, impairment in communication, and repetitive patterns of behaviors and activities. Autism is a spectrum disorder because the severity of the disability varies from person to person.

Lastly, supporting a person with autism consists of three levels in severity. From level one to be the minimal support a person needs from autism and to level three to be the optimum and maximum support a person requires.

## Cerebral Palsy

**Team Members:** Erika Webster, Jared Rhett, Nathan Chua, Elijah Piniol  
**Faculty Member:** Mai Narasaki-Jara

*Course Name: Retrieving data. Wait a few seconds and try to cut or copy again.*

**Project Summary:** Cerebral Palsy is a non-progressive neurological disorder that affects an individual's ability to control muscle movement & coordination.

CP is caused by abnormal brain development or damage to areas of the brain that control motor functions.

Exercises should be modified based on one's functional mobility level & degree of

involvement in limbs.

## Creating Walkable Cities

**Team Members:** Noah Dobson, Sevita Dance, Grace Harrison, Steven Lugo, James Hurin  
**Faculty Member:** Nina Abramzon

*Course Name: Science and Math: freshmen Experience 1 SCI1010.04*

**Project Summary:** We are going to analyze two example cities; one very walkable, and one extremely un-walkable, and determine ways in which to make the un-walkable city more walkable. This will be a critical literature review.

## Deafness

**Team Members:** Kassandra Cardozo, Quynh Pham, Angelica Aparicio, Carlos Lazaro, Jordan Ramirez  
**Faculty Member:** Mai Narasaki-Jara

*Course Name: KIN 2460.01-1*

**Project Summary:** Deafness is when the ears are not functioning effectively causing hearing loss. There are four types of deafness, sensorineural, conductive, mixed, and auditory deafness. Deafness can be caused by genetics, perinatal conditions, chronic ear infections, and age. There are assistive listening technology to help these individuals improve day-to-day tasks.

## Down Syndrome

**Team Members:** Melissa Rico, Brady Butcher, Marcos Perez, David Tran, Miao Yi Yu Zeng  
**Faculty Member:** Mai Narasaki-Jara

*Course Name: Foundations of Adapted Physical Activity, 2460.01*

**Project Summary:** This project focuses on the integration of individuals with Down Syndrome into physical education programs, with the aim of enhancing their overall physical health, motor skills, and social inclusion. By promoting these factors, this initiative seeks to break down barriers and create a supportive environment for individuals with Down Syndrome in PE settings.

## Dysgraphia

**Team Members:** Britney Vasquez, Kayla Adunctate, Ava Alejo, Derrick Claxton, Christopher Hernandez  
**Faculty Member:** Mai Narasaki-Jara

*Course Name: Foundations of Adapted Physical Activities, KIN 2460.01*

**Project Summary:** There are many neurological disorders that can cause writing disabilities and the one that this research will explicate on is dysgraphia, which is most commonly known among children. Dysgraphia refers to trouble with motor skills in writing, people with dysgraphia may have difficulty writing in a straight line, spacing, forming letters, etc.

The task of writing requires precise coordination of higher-level cognitive domains, including expressive language and fine motor skills. People with dysgraphia may write slower than others, struggle with spelling, and have difficulty forming letters.

## Girl's Education in Rural India

**Team Members:** Kaitlyn Torres, Connie Peterson, Jahnea Ordon, Janice Im, Berenice Benitez  
**Faculty Member:** Nina Abramzon

*Course Name: SCI1010 - Sci and Math: Freshman Exp I*

**Project Summary:** Despite there being more access to education, especially with the introduction of technology, the number of young, rural Indian girls that leave school never seems to decrease. We want to find out why that is and what we can do to help those girls get the education they deserve.

## Hearing Impairment

**Team Members:** Adriana Franco, Alinna Maranan, Keke Scott, Ethan Marvil  
**Faculty Member:** Dr. Mai

*Course Name: KIN2460.01*

**Project Summary:** Our poster will consist of information regarding those with hearing impairments and the activities they can pursue.

## How Does Student Participation in Extracurricular Groups Relate to Academic Performance?

**Team Members:** Ryu Justin Nakamura, Gabriel Partida, Benjamin Ruskin  
**Faculty Member:** Brenda Fernandez Lango

*Course Name: SCI1010.02& SCI1010A.02*

**Project Summary:** Investigate within the biology department by survey to see how many students are part of clubs or other campus organizations, and also ask for GPA.

Once we have this information, we will investigate the relationship and attempt to explain how clubs/other groups can influence a persons academic performance to increase or decrease.

## **Inclusivity in Schools**

**Team Members:** Lee Deng, David Carranza, Erica McDowell, Michael Martinez, Axis Fleischman

**Faculty Member:** Nina Abramzon

*Course Name: SC11010.04*

**Project Summary:** Coming up with solutions to help make learning for students with mental disabilities easier

## **Intellectual Disability**

**Team Members:** Karl Ervin Baldemor, Erik Diaz, Jaden Gee, Saul Hernandez, Trinity Moseby

**Faculty Member:** Mai Narasaki

*Course Name: Fundamentals of Adapted Physical Activity, KIN 2460, 01*

**Project Summary:** "Our group topic for this activity is intellectual disability. Intellectual disabilities involve problems with things such as learning, problem solving, judgment, and adaptive functioning, such as daily life activities(talking, walking, etc.). These disabilities include dyslexia, ADHD, cerebral palsy, down syndrome, ASD, etc. We will also explore exercises that may improve these intellectual disabilities.

## **Molybdenum Catalyzed Deoxydehydration of Vicinal Diols**

**Team Members:** Binh Nguyen, Jonathan Wagner

**Faculty Member:** Alex John

*Course Name: Senior Project I 4610-06*

**Project Summary:** This poster will showcase molybdenum as a possible catalyst to undergo deoxydehydration to reduce highly oxygenated biomass to platform chemicals as well as understanding the mechanism of molybdenum-catalyzed DODH reactions. We explore factors like reductants, ligand framework, and temperature to optimize and assess their performance.

## **Multiple Sclerosis**

**Team Members:** Marlee Fleckenstein, Donielle Blaszczyk, Sofia Luminato, Joseph Mayoralgo

**Faculty Member:** Dr. Mai Narasaki-Jara

*Course Name: KIN 2460.01*

**Project Summary:** Multiple Sclerosis (MS) is a chronic, autoimmune disease of the central nervous system. It is characterized by demyelination and varying degrees of axonal loss. MS affects people differently, but common problems are trouble with movement and thinking. Medicines and rehabilitation can help to keep or restore functioning.

## **Muscular Dystrophy**

**Team Members:** Linda Gomez, Mia Perez, Jordan Carpenter, Amy Vicente  
**Faculty Member:** Dr. Mai

*Course Name: Foundations of Adapted Physical Activity, KIN 2460*

**Project Summary:** Muscular Dystrophy is a disability that some people have. In our poster we will be taking about the exercise recommendations, precautions, and contraindications for this specific disability.

## **Project K9 Rescue**

**Team Members:** Hannah Malcolm, Tina Khemani, Gwyneth Soldevilla  
**Faculty Member:** Brenda Fernandez Lango

*Course Name: Science and Math Freshman Experience SCI1010.02*

**Project Summary:** We are studying the adoption rates across certain dog breeds and demographics, whether it be age, coat color, or breed. We are coming up with a plan to try and improve the adoption rates of these types of dogs, and help them find a loving home.

## **Quality Education in Southern California**

**Team Members:** Esteban Acosta-Martin, Steven Almaraz Campos, Antonio Garcia, Garrison Gibson, Donovan Nguyen  
**Faculty Members:** Nina Abramzon, Don Dao

*Course Name: SCI 1010.04*

**Project Summary:** Trying to give access to life skills to High School Students such as, how to apply for a credit card, how to build credit, budget or allocate personal bank account, or scheduling/planning.

## **Raising Teacher Wages in Los Angeles**

**Team Members:** Silvi Petrosyan  
**Faculty Member:** Dr. Nina Abramzon

*Course Name: SCI 1010.04 Sci and Math: Freshman Exp I*

**Project Summary:** In our poster, we will be covering the current issue of low teacher wages in Los Angeles County. We will further present how low teacher wages affect student learning in schools, teacher participation in schools, and speak about how we plan to fix the issue in our community.

## **Speech Impairment**

**Team Members:** Chris Barbar, Kristin Chieh, Joel Horn, Melanie Ramirez, Joselin Servin  
**Faculty Member:** Dr. Mai Narasaki-Jara

*Course Name: Foundations of Adapted Physical Activity, (71026), KIN2460*

**Project Summary:** Our poster will be about speech impairment, how it works and bringing awareness to those who are unfamiliar with it.

## **Spinal Cord Injury**

**Team Members:** Corbin Enriquez, Riley Garrett, David Castaneda, Jonathan Trujillo Garcia  
**Faculty Member:** Mai Narasaki-Jara

*Course Name: KIN 2460 Foundations of Adapted Physical Activity*

**Project Summary:** Spinal cord injuries (SCIs) are devastating events that result from trauma or disease affecting the spinal cord. They often lead to permanent loss of sensation, motor function, and can impact various bodily systems.



Management includes immediate medical attention to minimize damage, followed by rehabilitation to maximize functional recovery. SCIs have profound physical, emotional, and financial implications, highlighting the need for ongoing research to develop better treatments and improve the quality of life for those affected.

## Stroke

**Team Members:** Ashley Gomez, Fernando Viramontes, Rukkaya Al-Battat, Sergio Chavez  
**Faculty Member:** Dr. Mai Narasaki-Jara

*Course Name: Fndtns of Adapted Physical Act, KIN2460, Section 1*

Project Summary: Heart attack, numbness, weakness, blood clots, confusion, slurred speech, thrombosis, embolism, stenosis, ischemic stroke, hemorrhagic stroke, high blood pressure, high cholesterol, diabetes, poor eating habits, problems with memory, awareness, attention, learning, judgment, and thinking, depression, physical therapy, occupational therapy, family support, speech therapy, women vs men, stroke in children, left brain stroke, right brain stroke

## The Impacts of Sleep on Academic Engagement

**Team Members:** Sawyer Hardy, Naomi, Valentina  
**Faculty Member:** Brenda Fernandez Lango

*Course Name: SCI 1010A section 2*

Project Summary: We conducted a survey with questions about student sleep schedules and how that effects their engagement in class.

## Traumatic Brain Injury

**Team Members:** Brennan Rezner, Omar, Jesus, Mykal, Reno  
**Faculty Member:** Dr. Mai

*Course Name: KIN 2460*

Project Summary: Traumatic Brain Injury (TBI) is a medical term used to describe injuries that usually come from a blow, jolt, or other penetrating hit to the head. The severity of the disability depends on how serious the damage is and the precise regions of the brain that are affected. TBI can lead to physical, cognitive, emotional, and behavioral impairments that can make it hard for people to engage in daily activities.

## Two-Step Catalytic Approach for $\beta$ -O-4 Bond Cleavage in Lignin

**Team Members:** Alexander Cartolano  
**Faculty Member:** Alex John

*Course Name: Special Study for Upper Division Students, CHM4000, 03*

Project Summary: Growing demand for and reliance on petrochemicals has led to increased interest in identifying sustainable alternative sources of these platform petrochemicals. One alternative is the cleavage products of lignin. This poster covers the optimization of the two-step metal catalyzed oxidative cleavage of lignin model compounds employing Molybdenum and Vanadium complexes.

## Unpacking Dyslexia

**Team Members:** Alex Won, Shyanne Carrigan, Leilah Lou, Nico Negrete, Angelica Rivera  
**Faculty Member:** Mai Narasaki-Jara

*Course Name: KIN 2460*

**Project Summary:** Can you imagine trying to read something and having the words jumble all around? About 15% of the population nationwide has dyslexia (DyslexiaHelp, 2023). Together we will unpack aspects of dyslexia such as its symptoms, causes, complications, diagnosis, and treatment.

## Visual Impairments

**Team Members:** Andrew Avila, Brandon Pineda, Luis Juarez, Elias Borhoum, Gus Reyman  
**Faculty Member:** Dr. Mai Narasaki-Jara

*Course Name: Kin 2460, Foundations of Adapted Physical Activity,*

**Project Summary:** Visual impairment is a growing issue amongst the population of the United States. This disability affects around eight percent of the American population, which is around twenty million people. It is important to bring awareness to this disability, including the many different types of visual impairments. This disability has many different causes, all depending on what level of visual impairment an individual has.

## WeWalk Smart Cane

**Team Members:** Celina Garcia, Noel Soto-Covarrubias, Brian Chavez, Carlos Baez, Sebastian Olague  
**Faculty Member:** Mai Narasaki-Jara

*Course Name: Foundations of Adapted Physical Activity 2460.01*

**Project Summary:** The WeWalk Smart Cane is the new upcoming piece of technology for visually impaired individuals. The updated version has new features that make exploring and navigation a much easier experience.

# Acknowledgment

First and foremost, we want to shine a spotlight on our exceptional student presenters. Your outstanding creativity and innovation in your PolyX projects have been the driving force behind the success of the PolyX Showcase. We are truly inspired by your hard work and passion.

We extend our heartfelt appreciation to all those who have contributed to the success of this event. Our esteemed faculty and staff, your mentorship, guidance, and dedication to our students have been invaluable. To our valued partners, your generosity and unwavering support have been instrumental in bringing this showcase to life.

Last but certainly not least, we want to thank our attendees for joining us in celebrating the remarkable achievements of our students and the transformative power of the Polytechnic experience. Your presence has made the PolyX Showcase a truly special and memorable event. Thank you for being an integral part of this journey!

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