GREEN IV

Reducing waste in Isla Vista, CA.



Winter 2020

Writing Proposal Project

An attempt to tackle waste concerns.

University of California, Santa Barbara Winter 2020

Prepared for:

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Georgia Dabi-Pinchewski, Lupe Femat, Kaitlyn Nguyen, Karen Fukuda, Sandria Sha, Sophia Lake

To: Dr. LeeAnne G. Kryder

From: Green IV Team
Date: 25 February 2020

Subject: Summarization of Team Project Process

This memo is regarding our final proposal dealing with waste management around UCSB and discusses our overall experience and what we learned during the project.

When we first got the theme of waste management, we had an initial brainstorm. At that time, our focus was on the furniture piled up in IV in every graduation season. However, it was hard for us to find an organization to transport and utilize these large-sized wastes. Then we came up with disposing of red cups that people discard after parties, but we found that the red cups are made with polystyrene, which cannot be recycled.

We decided to replace single use packing boxes with reusable food containers in the restaurants around UCSB to reduce. In this way, we can reduce the use of plastic boxes and cartons. According to our survey, this activity has been previously implemented on other university campuses and has achieved conspicuous results. Therefore, we plan to introduce the reusable food containers made by OZZI and cooperate with Hana Kitchen. The reason for selecting Hana Kitchen as our experimental restaurant is that they use paper packing boxes to contain food, both for dine-in and take-out. The packaging boxes they use are all in regular rectangle shape, which is similar to the shape of the container we want to popularize.

The specific implementation we plan is, after introducing reusable containers to Hana Kitchen, we can sell a membership card to the customers. People will get food in reusable containers and can return them after eating. After returning the box, they can get their membership card back, which is easier to carry around.

Our team members made surveys to collect customers' ideas about this concept and exchanged our thoughts with the manager of Hana Kitchen. We also contacted the customer service of OZZI and made an appropriate budget for ordering reusable containers in the future.



We plan to apply and get grants from Johnson Ohana Foundation since they subsidize UCSB Alumni who want to implement environmental education. The current funding theme of Johnson Ohana Foundation is Plastic Free Initiatives, which coincides with our goal. So far, our project is going well. Hope we can implement our plan in the next few months!

Sincerely, Green IV Team	
Georgia Dabi-Pinchewski	
Lupe Femat	_
Kaitlyn Nguyen	
Karen Fukuda	
Sandria Sha	_
Sophia Lake	

Green IV 1234 Del Playa Drive, Isla Vista CA, 93117 greenIVprogram@gmail.com



Georgia Dabi-Pinchewski, Lupe Femat, Kaitlyn Nguyen, Karen Fukuda, Sandria Sha, Sophia Lake

27 February 2020

Ms. Jessica Scheeter Executive Director Johnson Ohana Foundation PO Box 80301, Goleta CA 93118

Green IV Grant Request

Dear Jessica Scheeter,

Thank you for reading this letter of inquiry to your Johnson Ohana Foundation. We at Green IV believe that our proposal to initiate a reusable container program in an Isla Vista restaurant aligns with your foundation's current funding theme: Plastic Free Initiatives. We are respectfully requesting your consideration of a grant of \$780.

This proposal aims to initiate a reusable container program at Hana Kitchen in Isla Vista utilizing Ozzi's O2GO containers. Hana Kitchen is considered one of the most popular staples for residents in the community however, the restaurant only provides single-use containers to its patrons regardless of whether it is dine-in or take-out. For a one-time fee of \$5, patrons of Hana Kitchen will be able to utilize a reusable container every time they visit. For patrons that do not wish to carry the container home with them, they can receive a membership card that will allow them to essentially "check out" a container the next time they visit.

The waste in our community has become a forefront issue for environmental initiatives. Our main landfill, Tajiguas, is projected to reach max capacity within the next 5 years. We firmly believe that this proposal will provide the infrastructure to support our community's desires to combat this issue before it's too late. However, we also understand the need to engage our community of these efforts through waste reduction education and outreach to promote the program.

Thus, we hope to launch an educational outreach campaign to Isla Vista going door to door and surveying Hana Kitchen patrons about the program, how it fulfills our mission, and why there is such a pressing need for such a program.



Given the fact that most Isla Vista residents are also University of California, Santa Barbara students, these residents are constantly exposed to the compostable-ware, triple stream bins, and the many other efforts of the university to divert its waste. One of the most popular university cafes even has its own reusable container program that has proved to be successful. Through this proposal, we aim to translate the same efforts and success from the university and into our community and our homes.

Your investment would allow us to kick start this program and begin tackling the plastic crisis in ways the Isla Vista community has never done. Our team is enthusiastic about the project and is committed to engaging as many people as possible. As a UCSB alum, we hope that this project propels the vision you once had for Isla Vista even further than you imagined.

We sincerely appreciate your time and consideration of our request and look forward to hearing from you soon.

Sincerely,
Green IV Team
Caoraia Dahi Dinchowski
Georgia Dabi-Pinchewski
Lupe Femat
Kaitlyn Nguyen
Karen Fukuda
March Landad
Sandria Sha
Sophia Lake



Executive Summary

Introduction

Green IV is proposing to replace single use food containers at Hana Kitchen with a reusable container program. Single use food packaging is a huge problem globally. Although it does make it more convenient for the consumer, the planet is suffering. Most takeaway containers are usually not recyclable because either the region does not recycle that number of plastic or there is still food residue and it ends up in the trash.

Proposed Solution

Our proposed solution of a reusable food container program would help Isla Vista step in the right direction to combat excess and unnecessary waste. Throughout this proposal, we have created a detailed plan to implement this project at Hana Kitchen, a restaurant located in Isla Vista. Our goal is to create a program where the customer pays an initial cost of \$5 and gets a reusable take out container. When the customer returns the container after they finish their meal, they receive a membership card that they can exchange for a container the next time they come. Once the container is returned, it is cleaned on site at the cafe and can be reused to carry someone else's food. This is just as convenient as single use take out containers because the customer does not have to carry it around all day long, they can just return it once they are finished with their meal. We are confident that this proposed reusable container will work because The Coral Tree Cafe here at UCSB has instituted it. This program is known as "Eco To Go" and it is fairly new but has seen great results so far.

Benefits and Risks

Along with any project comes benefits and risks. While it is important to consider both pros and cons, we believe that the pros greatly outweigh the cons for this proposal. Along with reducing food container waste in Isla Vista, this program saves the business money in the long run and raises awareness for environmental issues. The only downsides to this program would be that it would cost more initially and they would need to designate someone to wash all the containers.



Meet the Team

Georgia Dabi-Pinchewski

Georgia is a Senior who studies Environmental Science at UC Santa Barbara. Her dedication to this project comes from the importance she places on minimizing human impacts on our planet. She grew up in France and wants to keep exploring, maybe London next, maybe South America. After graduation, she will probably go home first, take care of her four dogs and catch up with her family (while obviously pursuing environmental projects).



Kaitlyn Nguyen



Kaitlyn is a 3rd year Environmental Studies student at UC Santa Barbara from Northridge, CA. She is particularly focused on educating and communicating human behavioural change towards sustainability to combat the climate crisis. Currently she works as a Green Certification Coordinator with UCSB Sustainability and hopes to make that her full time career as a Sustainability Officer of a business. At home, she has 3 dogs who she loves taking outdoors. Kaitlyn is also a self-proclaimed R&B and EDM music connoisseur and attends as many music festivals as she can.

Karen Fukuda

Karen is a third year Environmental Studies major at UC Santa Barbara who is excited to learn about renewable energy. She is from Phoenix, Arizona and her experience of studying abroad in Costa Rica has sparked her commitment to study further and work as an environmental professional. Currently she works for the PISCO lab of Marine Science Institute at UCSB. On weekends, she loves to go paddle boarding to enjoy beautiful nature in Santa Barbara and eating her favorite icecream with friends!







Lupe Femat

Lupe is a 3rd year Environmental Studies major here at UC Santa Barbara, who is originally from Sanfernando, CA. She is focused on creating a sustainable future and as well the environmental justice aspect of it. She wishes to travel in the future and as well help minimize the environmental impacts there is around the world and help those who are being affected. She loves to have fun, explore the outdoors, aswell loves music, and to go to raves and concerts with friends.

Sandria Sha

Sandria Sha is a third-year Environmental Studies and German major student. She comes from Liaoning, China. She wants to become an environmental educator, and pass knowledge regarding the environment to students. She has a passion for learning languages and exploring cultures. The most important decision in her life was to study abroad since this experience changed her lifestyle and worldview. She hopes to communicate with more people speaking various languages or from different cultural backgrounds in the future.



Sophia Lake



Sophia is a 2nd year Environmental Studies and Global Studies student at UCSB from Westlake Village, CA. Her goal is to own a small business that combats fast fashion by recycling old denim with embroidery. Currently, when she's not revamping clothing, she enjoys playing water polo for the UCSB club team and being involved in the Greek community on campus. Sophia also loves spending time under the beautiful SB sun with friends, whether it be a nice hike in the mountains or sunbathing at the beach!



Waste Issue in Isla Vista

Isla Vista population and students

According to the United States census on Isla Vista the current population is 27,484 (Theis, n.d.). This amount of people living in Isla Vista is a lot to generate an excessive amount of waste as most of the population living here are college students. As a college student time can slip out of our hands and when hunger strikes it is likely that these students buy food

from these places.

Since about 23,000 of I.V residents are students that's a lot since students are more than likely to eat out. With plenty of options for restaurants here in Isla Vista it is likely that students waste their money eating out. According to Debt they amount that an average American eats but atleast 4.2 times a week and it is expected that the average college student eats out more than the average american(Fay, 2018).



Figure 1. To-go container trash of a college student

To-go container problem

Most restaurants here in Isla Vista tend to put all their foods in to go containers which in most cases are cardboard boxes or plastics (Figure 1). As people constantly buy food here it becomes an ongoing issue about how to manage the waste.

Since most of the trash in Isla Vista goes to the Tajiguas landfill it shows that roughly about 1,500 tons of trash (CountyofSB, 2018). This is a lot of trash that is being dumped into our landfills. Therefore this issue can be tackled by incorporating reusable containers as that will most definitely help reduce the amount of trash that is collected in these landfills.



Background Research

With environmental issues becoming more prominent across the globe, reusable containers are on the rise. Reusable takeout container programs have been implemented successfully at various other places.

Waste issue in Santa Barbara

By continuing having these paper and plastic containers it leads to lots of environmental impacts. For instance, since a lot of these containers in these restaurants are both paper and plastic this leads to a lot of waste being thrown into these landfills and no solution in being able to get rid of all the trash. When considering the Tajiguas landfill, where most of the Santa Barbara trash is collected it is estimated about 200,000 tons of trash is collected here per year. It became so much trash that the Tajiguas landfill was supposed to last a century but after 31 years it was nearly half full. This is alarming because in this case there needs to be more money put into repurposing the trash already in that landfill to last until 2036 or find a whole knew landfill to dump the trash. So there definitely needs to be a solution to this waste issue and what better way but to start with reusable containers in restaurants (Staff, 2018).

Successful Implementation of Reusable containers

This program has shown advance at a trendy New York restaurant called Dig. Dig has seen remarkable success since implementing these reusable to go boxes. According to a Forbes article, the customers of Dig are incredibly happy that they can enjoy their food on the go while contributing less to our nation's waste problem.

This program has not only been put into action at restaurants, it has also been started on multiple college campuses, including in Cornell University and Stony Brook University dining commons(Cornell University Dining, 2020, Stony Brook University, 2020). Raphael Meyer started this program on his campus and found that he was backed by both the university and the students attending. His program was so prosperous on his campus that he started his own container business to help grow this idea and wrote a simple step by step guide on how to begin one of these programs on campus. He touches on many logistical things in this guide like working out a food certification, getting a grant for this program, and deciding who to present this plan to (Meyer, 2019).

It seems as though this program would be successful in Isla Vista because so many students care about improving this planet here. UCSB has constantly been one of the most



sustainable schools in the nation and they could not do that without willing students to participate. In addition, the Tajiguas landfill has recently suffered an overflow of trash and students would jump at the opportunity to help minimize the waste that goes into that.

Lastly, throughout this detailed plan, we are confident that this project will be implemented successfully because of the young but accomplished "Eco To-Go" program at the on campus Coral Tree Cafe.



Options

Waste Reduction Methods

Our team explored various methods to reduce the waste of an Isla Vista restaurant of our choice. The methods and analyses of success for each one are detailed below:

1. Provide compostable service-ware

a. This method would help reduce the amount of waste going in our landfills. However, Isla Vista does not have the proper compost infrastructure to support this method. In addition, the restaurant would be required to continue financing the compostable service-ware after, something they may not have the capacity and desire to do.

2. Provide compostable infrastructure

a. Similarly as stated above, this method would also help to reduce the amount of waste going in our landfills. However, if the restaurant does not provide compostable service-ware and containers, the reduction of waste would not be significant. In addition, contamination of the compost bins would counteract the waste diversion efforts.

3. Provide reusable containers and initiate a to-go container program

a. This method would provide the restaurant with reusable to-go containers provided by Ozzi and a membership card that allows patrons to pay a one-time fee of \$5 to receive and return a reusable container each time they go to the restaurant. We believe that by helping finance this program for the restaurant, this would help them lower their operational costs while effectively engaging their customers on their sustainability efforts. In addition, we found that many Isla Vista restaurants use single use containers regardless if the meal was for dine-in or take-out.

Isla Vista Restaurants

Isla Vista is home to 42 different restaurants varying in the type of food, size, and operational structure. In identifying which restaurant would benefit the most from a partnership with Green IV, our team based off our choice on a few metrics:



- 1. Do they primarily use single-use containers?
- 2. Are they a popular chain that requires their products to have their logos/a consistent look or a local restaurant?
- 3. Is this restaurant frequented very often by Isla Vista residents?
- 4. Do they serve consistent dishes that can be packaged into the Ozzi O2GO reusable container?

Reusable Container

After determining the best method of waste reduction, our team then had to determine which reusable container would be the best fit for our proposal. Inspired by UCSB's Coral Tree Cafe's Eco-To-Go program, we decided to use the same company to order the reusable containers, OZZI.



Recommended Approach

Green IV Instagram Account

For propagandizing our project and encouraging more people to join the reusable container plan, we decided to set an Instagram account and post our progress weekly. Followers can also send us messages to ask questions or give advice.

Implement Approach

After preparing all the reusable containers and membership cards, we will send flyers out explaining our operating model. When customers check out in Hana Kitchen, the cashier can ask whether they want to join the membership of a reusable container for only five dollars. For encouragement, we can offer a 20% discount for purchase. When people return their containers after using, the cashier can give their membership card back, which is easier to carry around. When the person comes to Hana Kitchen next time, just give the card to the staff there, then he/she will get the food in the green reusable container.

Project Evaluation

In order to evaluate our project once it starts to work, we will survey both the customers of Hana Kitchen and some UCSB students on campus. We will record their thoughts on these reusable containers and this membership model and adjust the plan based on people's feedback. We will also interview more restaurant owners in IV about whether they want to join our plan.

Funding

To fund the project, we are asking grants from the Johnson Ohana Foundation. According to our budget, it will cost a total of \$780 (see table Proposed Budget) for us to buy reusable containers and make membership cards. We will focus on online advertising so that we do not need to spend too much money on posters and flyers.



Restaurant of Choice: Hana Kitchen

Why we chose Hana Kitchen

The restaurant we chose was Hana Kitchen, it is a very popular food option here in Isla Vista. Since Hana Kitchen is slowly growing and currently has 3 locations open and it's expanding its stores to various places therefore implementing this system where we replace paper to-go containers for reusable ones would be quite feasible (Figure 2).

Since Hana kitchen mainly serves bowls of rice, vegetables and a source of protein it seemed much easier to put these containers in place since it's very limited with their food options.

Which is worse for the environment?

The containers that Hana Kitchen currently uses are cardboard boxes, which anything made out of paper tends to actually cause more environmental harm. As it takes much more energy to produce a paper product it definitely increases the greenhouse gas emissions (Plumer, 2019). Though plastics are also just as harmful, it is important we tackle the most harmful container first which is starting with Hana Kitchen.

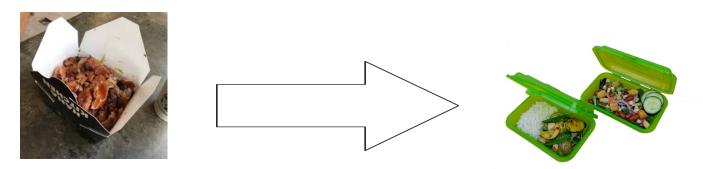


Figure 2. The transition between single-use to reusable containers



Outreach Methods

Emails

We will use digital channels such as school email to run informational advertisements. Proposing our project to UCSB Sustainability Social Media will allow us to distribute the information to all of current UCSB students. We may also reach out to the environmental advisor, Eric Zimmerman to distribute the information through an ES email, which is sent out to every person who is subscribed to the Environmental Studies Department email list.

Public Posters and Fliers

We plan to place small fliers and posters on tables or the walls inside the restaurant (Figures 3 and 4). By hanging large posters in front of the restaurant and the side of the street, we will be advertising our project to people who are passing by. These posters use eye-catching images and phrases to provide a long-lasting impression of reusable containers and step by step guidance on how to use the to-go reusable containers.





Figures 3 and 4. Examples of posters and flyers that can be used to advertise the program



Discounts

We believe that by offering customers an incentive to make this program work, we will further be able to increase the users of reusable containers. Just Salad's Noonan in New York offers a service that every time a customer chooses to use a reusable bowl gets a free additional topping. The restaurant found this program successful because they were able to maintain enough visits (Fassler, 2020). This service is also seen on college campuses, such as in Boston University dining services. They have launched a reusable to-go container for meals and provided a \$0.25 discount each time the student uses the container (Boston University Sustainability). At the same time, the benefit of OZZI containers is already seen in the dining program of Georgia State University, where they have successively cut down the disposal waste by 20%. This outcome is driven by a 10% discount on their food. Paltz, the director of Panther Dining agrees that students can be both environmentally friendly and save themselves some cash (Stoughton, 2019).

Eco-label

The Community Environmental Council describes some of the most promising solutions in developing networks and developing programs that involve waste management (Wright & Antonelli, 2015). As a way to recognize the business's effort to minimize their waste, we possibly develop an eco-label or certification to be posted on the restaurant's website or on the building. This certification may propagate the sustainability effort in Isla Vista while providing an incentive to involve new businesses.

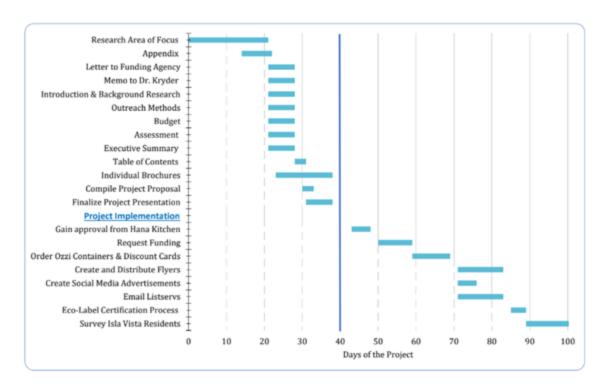
Social Media

By starting our own Instagram account, we aim to generate interest in ongoing campaigns and progression of our project. We plan to frequently post images or pictures to remind the audience the importance of using reusable containers. The main goal of this social platform is to raise awareness to the program and to provide the most updated information.



Timetable

TASK NAME	START DATE	END DATE	START DAY	DURATION	NAME
Project Proposal					
Research Area of Focus	2/2	2/22	0	21	Everyone
Appendix	2/16	2/23	14	8	Georgia
Letter to Funding Agency	2/23	2/29	21	7	Kaitlyn
Memo to Dr. Kryder	2/23	2/29	21	7	Sandria
Introduction & Background Research	2/23	2/29	21	7	Lupe/Sophia
Outreach Methods	2/23	2/29	21	7	Karen
Budget	2/23	2/29	21	7	Kaitlyn/Karer
Assessment	2/23	2/29	21	7	Kaitlyn
Executive Summary	2/23	2/29	21	7	Sophia
Table of Contents	3/1	3/3	28	3	Karen
Individual Brochures	2/25	3/10	23	15	Everyone
Compile Project Proposal	3/3	3/5	30	3	Everyone
Finalize Project Presentation	3/4	3/10	31	7	Everyone
Project Implementation					
Gain approval from Hana Kitchen	3/16	3/20	43	5	Everyone
Request Funding	3/23	3/31	50	9	Everyone
Order Ozzi Containers & Discount Cards	4/1	4/10	59	10	Everyone
Create and Distribute Flyers	4/13	4/24	71	12	Everyone
Create Social Media Advertisements	4/13	4/17	71	5	Everyone
Email Listservs	4/13	4/24	71	12	Everyone
Eco-Label Certification Process	4/27	4/30	85	4	Everyone
Survey Isla Vista Residents	5/1	5/15	89	15	Everyone





Proposed Budget

Materials	Estimated Cost	
Ozzi O2GO Containers	\$260	
(100) 5"x5"x3" single entree	\$200	
(50) 6"x9"x2.5" single entree	\$230	
(50) 8"x8"x2.5" single entree	\$230	
Shipping and Handling		
Membership Card (200) Barcoding	\$60	
Subtotal of Containers and Membership <u>Card</u>	<u>\$780</u>	
<u>Publicity Materials</u>		
(50) Fliers	\$50	
(2) Posters	\$40	

https://4colorprint.com/print/Membership-Cards



Assessment

In order to assess the overall success of the project, our team identified several metrics and tools that we will be utilizing. These metrics and tools will measure the effects of the project on waste reduction, customer satisfaction, and customers' educational engagement.

Waste Audit

Our first step will be to conduct a waste audit for Hana Kitchen. The waste audit will be conducted pre-implementation and post-implementation.

- 1. One month before implementation, we will be collecting their waste for a period of one week, Monday through Friday, and weighing how much waste Hana Kitchen produces. Since the restaurant does not have recycle or compost bins, we will not need to sort through the waste.
- 2. One month following implementation, we will again collect their waste for the same time period, weighing their waste, and doing a comparison analysis from the pre-implementation waste audit.

This assessment tool will help us examine how much waste the reusable containers were able to reduce and how effective the overall project is.

Membership Card Tracker

Hana Kitchen will be responsible for quantitatively tracking the number of patrons who pay for a membership card. Whether or not the patron frequents Hana Kitchen once a month or once a week, we will be able to compare the number of users to the number we projected for at the beginning of our project implementation. We aim to have ___ users for the program and will track the progress of the program within a 6 month period.

Isla Vista Resident Survey

Lastly, to gauge the success of the program in the lens of the patron, our team will be sending out a Google form to all the Isla Vista residents that we outreached to and engaged with. This survey will allow us to solicit feedback on:



- 1. The execution of implementing the program
- 2. How much more educated they became on waste issues and reduction efforts
- 3. Whether the program incentivized the patron to frequent Hana Kitchen more often



Conclusion

We hope that by implementing our project, students of UCSB can raise the awareness of reducing plastic waste and live a sustainable life. We try to encourage students to join our eco-friendly plan and motivate them to reduce solid waste gradually. By using reusable food containers instead of plastic packing boxes, people can not only reduce the use of nonrenewable resources but also reduce daily waste production. Overall, our goal is to enable UCSB students a healthier lifestyle, as well as making UCSB a more sustainable campus. We wish to expand our influence in the future and perfect our plan to make it suitable for every restaurant in Isla Vista.



Appendices



To-go boxes and plastics are very harmful to the environment as they create an excess amount of waste. However, this issue can be helped by changing the way we eat.

We chose one of the popular restaurants in Isla Vista, Hana

Kitchen to implement our first to-go reusable container program.



Contact Us

1234 Del Playa Drive, Isla Vista CA, 93117 greenIVprogram@gmail.com

Lupe Femat
Sandria Sha
Sophia Lake
Karen Fukuda
Kaitlyn Nguyen
Georgia Dabi-Pinchewski





By using this reusable container, Hana Kitchen is saving energy, emitting less carbon emission, and reducing single use trash from landfills.

OZZI's O2GO Containers

Hana Kitchen carries single use card board containers to serve their customers. We would like to provide the restaurant with reusable to-go containers produced by OZZI.







How to start? Step by Step for Users

#1 Sign Up

Pay a one-time fee of \$5 and be a membership of to-go reusable container program.

#2 Check Out

Your membership allows you to check out one container at a time. You can return your container to cashier and get a membership card.

#3 Enjoy&Return

If you choose to take the container home, bring it back to be served again. This successively engages customers on their sustainability efforts!

Georgia Dabi-Pinchewski

43 rue de Saintonge 75003 Paris, France +1 (805) 724-9037 georgia.dabipinch@hotmai.fr

Experience

January 2020 - June 2020

AS Zero Waste Committee

• Planned the annual Zero Waste Festival. Publicity and budget coordination.

September 2019 - June 2020

UC EAP Intern

- Global intern at the UC Exchange Abroad Program office. Organized presentations and workshops; held tabling and office hours.
- Managed the EAP club. Organized outreach and social events. Worked with budget.

January 2019 - June 2020

Santa Barbara Student Housing Cooperative

- Held different positions: Member & Outreach Committee Board Representative, Kitchen Manager, Chores Manager.
- Organized outreach events, Led information session and house tours. Reviewed prospective members applications.
- Coordinated budget and planned bulk orders.

July 2016 - present

Moadon Loisirs

• Camp counselor then assistant director for summer camps in France.

Education

September 2016 - June 2020

University of California, Santa Barbara, CA, USA

Major in Environmental Science, Bachelor of Arts. Concentration in Sociology.

August 2018 - December 2018

University of Oslo, Norway - Faculty of Social Sciences

Exchange program through the University of California for one semester.

Classes in anthropology, geography and development studies.

September 2013 - June 2016

Lycée Massillon, 75004 Paris, France

Graduated with a French Baccalaureate in Science with distinction (*mention Assez Bien*) Enrolled in an Advanced English section. Passed the Cambridge IGCSE exam with distinction.

Distinctions & Interests

- Relevant classes: Energy and the Environment, Green Buildings, Waste Management, Industrial Ecology, Environmental Planning, Geographic Information Systems, Sustainability & Innovation.
- Computer programs: Python, Excel, Word, PowerPoint.
- Notable class projects: Solar module Life Cycle Assessment (Industrial Ecology), Campus Building Eco-Potential Assessment (Green Buildings), Food-Services Waste Reduction Project.
- Languages: French (native), English (bilingual), Spanish (good knowledge).
- Enthusiasm for travelling, sports and the outdoors:
 - Boat license, Scuba diving certification, UCSB Ultimate Women's teammate then co-captain.



EDUCATION

University of California, Santa Barbara

Bachelor of Science: Environmental Studies

Relevant Coursework

- Business and the Environment
- Renewable Energy Systems
- Writing for Environmental Professions

PROFESSIONAL EXPERIENCE

Green Certification Coordinator

UCSB Sustainability PACES

- Engage with campus departments and event coordinators on best sustainable practices
- Connect campus members to resources to reduce their environmental impact
- Collaborate with Santa Barbara County Green Business Program to certify businesses on campus

Urban Restoration & Education Intern

Your Children's Trees Nonprofit

- Maintain community trees through weeding, irrigation, and re-potting
- Orient and supervise volunteers at tree planting events
- Run educational demonstrations at local elementary schools

EXTRACURRICULAR ACTIVITIES

Service Vice President

February 2020 - Present

UCSB Alpha Phi Omega, National Co-ed Service Fraternity

- Plan and execute service projects based on the needs of the community
- Connect active members to community service and campus organizations
- Maintain a detailed record of services and service hours.

SPECIAL SKILLS

• Proficient in Microsoft Word, Excel, and Powerpoint

CERTIFICATIONS

- Alpha Phi Omega LEADS certified
 - A five module leadership development course

<u>INTERESTS</u>

• Photography, Weightlifting & Fitness, Basketball

Expected Graduation Date: June 2021

May 2019 - Present

June 2019 - Present

KAREN FUKUDA

555 Storke Rd, Goleta, CA 93117 kpfukuda@ucsb.edu (480) 399-2208

EDUCATION

University of California, Santa Barbara, Junior

Expected Graduation Date: June 2021

EXPERIENCE

Partnership for Interdisciplinary Studies of Coastal Oceans (PISCO), UCSB Lab / September 2019 - current

- Conducted ongoing marine intertidal and sub-tidal monitoring for research projects
- Sorting of recruitment samples using dissecting stereomicroscopes
- Field work to collect data and assisted in annual survey

SHIZEN ENERGY Group, Tokyo Office / July 2019 - August 2019

- Assisted in development of an offshore wind project in Japan and an onshore wind project in the Philippines as an intern
- Promoted efficient and open communication by taking notes for the team and client meetings and distributed information to relevant stakeholders
- Conducted literature reviews to prepare a presentation on potential impacts of offshore wind farms on marine ecosystems

Urban Restoration and Education Intern at Your Children's Trees, UCSB / April 2019 - June 2019

- Completed environmental restoration plantings in ecological reserves
- · Worked with arborists to process plantings and learned management of sustainable environment
- Participated in educational demonstrations at elementary schools, educating the public about climate change and urban forest

Sea Turtle Field Courses and Expeditions (BIOMA), Costa Rica / June 2018

- Hands-on professional experience with researchers at Ostional Wildlife Refuge
- In-depth knowledge about sea turtle biology, ecology, and conservation strategies
- Experience in scientific techniques such as data collection and analysis

VOLUNTEER EXPERIENCE

CALPIRG Volunteer

UCSB / January 2018 - June 2018

- Assisted in committing the UCSB campus to 100% renewable energy by 2050
- Collected petitions from both students and professors
- Spoke with staff and students to raise awareness on environmental issues

UCSB Coal Oil Point Nature Reserve, January 2018

- Assisted in habitat restoration at Coal oil point, Santa Barbara
- Enhanced landscape by removing undesirable non-native plants and introducing beneficial trees

Earthquake Disaster Relief, Summer in 2016

• Volunteered in an earthquake disaster relief in Kumamoto, a western city in Japan

LANGUAGES

Fluent in Japanese and English

Santa Barbara, CA

(818) 723-0543

Gfemat1@gmail.com

Education

- The University of California, Santa Barbara
- Bachelor of Arts in Environmental studies

Expected Graduation: June 2021

Relevant Coursework

- Environmental Ecology
- Concepts and controversies in the biological sciences
- US environmental politics and policy
- Environmental Chemistry

Experience

UC Dining Common

May 2019- present

University of California Santa Barbara

- Worked together with coworkers in order to serve the customers
- Helped customers with any needs they may have

Leadership (ASB)

August 2013 - June 2017

Cesar Chavez learning academies

- Lead teams to be able to create fundraising events
- Hosted school-wide events after and during school
- Found creative ways to advertise our events

Peer Mentoring

February 2016- June 2016

Youth policy institute

- Helped incoming freshman transition from middle school into highschool
- Lead group based discussions with my mentees
- Tutored my mentees

Student Leader

August 2015 - June 2016

Project Grad Los Angeles

- Assisted highschool juniors how to apply for college
- Was in teams in order to help promote the benefits of college to low income individuals

skills

Language

• Fluent in both english and spanish

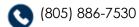
Technical skills

• Intermediate level in IMovie, Presentation, Word, MS Excel, Writing

Hanyue Sha (Sandria)

Environmental Studies Major Student









Work History

Museum Curator

Cheadle Center, Santa Barbara, CA

- Managed all paper and digital documentation related to Coccinellidae's scientific name, species, sex, and mass.
- Received, photographed, cataloged, researched and prepared Coccinellidae samples for display for CCBER collection.

Research Assistant

Harbin Institute of Technology, Harbin, Heilongjiang Supported research and development efforts in Environmental Engineering Laboratory.

- Focused on sewage treatment and Technology innovation.
- Collected, prepared and tested wide range of biological samples.
- Summarized search results by preparing written reports, graphs, fact sheets and tables.

Office Assistant Intern

Xingzhiyuan Education, Shenyang, Liaoning Assisted Chinese high school students to prepare for college in the United States.

- Updated public account on Wechat, uploading images and summarizing information.
- Taught high school students TOEFL Speaking and Writing.

Substitute Teacher

Shanzui Primary School, Huludao, Liaoning

Helped pneumoconiosis patients educate their children.

- Instructed primary school students in English, Math, and Chinese subjects.
- Diversified classroom instruction and group activities to successfully support students with unique strengths and learning styles.

Education

Bachelor of Arts: Environmental Studies

Expected June 2021

University of California, Santa Barbara - Santa Barbara, CA

- Majored in German Studies (4.0 GPA)
- Dean's List [Fall 2019]
- Coursework in Environmental Studies, Math and Chemistry.



Specify Proficiency

Languages- proficient in English, Mandarin, fluent in German. **Computer**- PC and Mac, Proficient in all Microsoft 20xx Applications.

12-2019- 01-2020

01-2020- Current

07-2019-09-2019

06-2016- 01-2020

09-2017- Current

Sophia Lake

Santa Barbara, CA | (805)551-4491 | sophialake02@gmail.com

EDUCATION

University of California, Santa Barbara (UCSB) Expected Graduation: June 2022 Bachelor of Arts in Environmental Studies and Global Studies

RELEVANT COURSEWORK

- Writing 2 and 107EP
- Environmental Studies 1, 3

RELEVANT EXPERIENCE

Assistance League of Conejo Valley-Assisteens (60 hours), 2017-18

- Managed cash register, organized and sold clothes at Assistance League Thrift Shop
- Priced items and inspected for damage
- Helped customers with whatever they needed

VP Marketing, UCSB Panhellenic Council, Jan. 2020-current

- Promote Greek Life in a positive light on various social media platforms
- Design the apparel for 2000+ women in the Panhellenic Community
- Compose informational packets about going greek for potential new members

Business Manager, Bid Day Chair, and Senior Celebration Chair, UCSB Gamma Phi Beta, 2019

- Planned the senior celebration events
- Delegated various jobs to my committee when my hands were full
- Communicated well with vendors for new sorority shirts, stickers, etc
- Involved talking down vendors prices and required timely responses
- Planned a successful bid day and promoted it by producing our first ever bid day video

SKILLS

- Communication
- Interpersonal
- Customer Service

- Leadership
- Time Management



Potential Funding Sources

Funding Source #1

Kaitlyn

https://www.fastcasual.com/news/hobart-center-for-foodservice-sustainability-offers-grant/

The Hobart Center for Foodservice Sustainability (HCFS) is a nonprofit forum that supports food industry's strive for sustainability through their equipment and design. The center offers an annual \$5,000 grant to an individual or organization for the best-executed sustainability project. The center is looking for a project that clearly shows a reduction in energy/water use/solid waste or an implementation of Farm-to-Fork programs. I believe that our project to bring reusable containers to our chosen Isla Vista restaurant will propel our community to reducing our waste by a significant amount. In addition, the reusable container program shows a great return on investment our chosen restaurant will no longer have to continuously purchase new single use containers. The sustainable qualified equipment that we are seeking for this project, Ozzi reusable containers, is also a leading sustainable company that the center will see as a good investment for the Isla Vista community.

Funding Source #2

Sophia: Johnson Ohana Foundation

http://www.johnsonohana.org/grants

I have chosen the Johnson Ohana Foundation for a few reasons. This foundation supports organizations and groups more focused on local change which applies to our proposal. Although they usually focus on environmental, arts, or music education, I believe that they would be inclined to help us. The owner of the foundation, Jack Johnson, and the director of the foundation are both active UCSB alumni. They are very involved with the Edible campus program already and I think would love to help local IV. Also on the website their focus this year is eliminating single use plastics.

Funding Source #3

Sandria: Tom Rogers Scholarship

https://www.es.ucsb.edu/student/scholarships#TomRogers



The Tom Rogers Scholarship awards Environmental Studies major students in UCSB each spring. Scholarship recipients should embody the ideals of civic responsibilities and environmental stewardship. Since our goal is to popularize reusable containers in the restaurants in Isla Vista, I believe our project meets the standard of the Tom Rogers Scholarship. Our purpose is mainly about changing people's habit of using disposable food containers and promoting the sustainable development of this community.

Funding Source #4

Lupe: ALCOA Foundation Grant Program

https://www.alcoa.com/foundation/en/partnerships-programs/grants.asp

I chose the grant from the ALCOA foundation because they are a program that advocates for climate change prevention and promotes sustainable solutions. They give out their grants to those who want to help the environment and try and minimize climate change so they are willing to fund those who are willing to help create sustainable solutions in which we are by trying to implement reusable containers.

Funding Source #5

Karen: Zero Waste Committee

https://zerowaste.as.ucsb.edu/grant-program/grant-proposal-program/

The Zero Waste Committee works to design sustainable practices in the UC system. They implement various projects to minimize water and energy use, promote sustainable purchases, and recycle and compost in order to achieve the UC system wide goal of Zero Waste by 2020. I believe that our project aligns with the goal of the Zero Waste Committee and can contribute to their achievement by bringing reusable containers in the IV restaurant. However, one needs to be affiliated with the organization or the AS program to apply for this grant. The organization may allocate at most \$1,000 and the deadline for grant proposal is May 1, 2020.



Funding Source #6

Georgia: California Climate Investments

http://www.caclimateinvestments.ca.gov/waste-diversion/2019/6/11/f ood-rescue

The California Climate Investments offers a Waste Diversion Program that funds projects preventing food waste to be generated and/or becoming landfill waste. This grant program is available to a wide range of actors, including public universities and colleges. It not only helps dealing with waste diversion but it addresses food insecurity as well, by distributing produce to hunger-relief agencies in the Los Angeles area. The program has received and implemented \$20.7M.



References

- Anchor Packaging. (2007). Plastic Take-out Containers—Myths vs. Facts . Retrieved from https://www.anchorpackaging.com/wp-content/uploads/2014/01/More-Myths-and-Facts-About-Plastic-Takeout-Containers.pdf GDP
- AS Recycling. (n. d.). Eco-to-Go! Retrieved from https://recycling.as.ucsb.edu/eco-to-go/GDP
- California Department of Resources Recycling and Recovery. (n.d.). Residential Waste Stream by Material Type. Retrieved February 21, 2020, from https://www2.calrecycle.ca.gov/WasteCharacterization/ResidentialStreams, KF
- Chabinka, J., Elevancini, J., Myles, A., Pye, J., & Sun, Y. (2015). Exploring the economic feasibility of implementing a reusable container program on Dalhousie University's Studley Campus. Retrieved from https://cdn.dal.ca/content/dam/dalhousie/pdf/science/environmental-science-program/ENVS%203502%20projects/2015/ReuseableContainer.pdf GDP
- Chua, J. M. (2019, December 4). Food delivery and takeout like DoorDash and GrubHub is on the rise. Retrieved February 21, 2020, from https://www.vox.com/the-goods/2019/12/4/20974876/takeout-delivery-waste-grubhub-recycling KN
- Chung, E. (2018, October 18). 6 ways to do takeout without the waste. Retrieved February 21, 2020, from https://www.cbc.ca/news/technology/zero-waste-takeout-1.4867042 KN
- City of Portland Government. (2019). Durable Dishware instead of Disposables. Retrieved February 21, 2020, from https://beta.portland.gov/sustainabilityatwork/durable-dishware-instead-disposables KN
- Container Deposit Systems. (2019). Our Solutions. Retrieved from https://www.containerdepositsystems.com.au/services GDP
- Cornell University Dining. (n.d.). Reusable Takeout Containers on Campus. Retrieved February 21, 2020, from https://scl.cornell.edu/residential-life/dining/about-dining/sustainablility/reusable-takeout-containers-campus, KF
- County of Santa Barbara. (2018) "RRWMD Tajiguas Landfill." www.countyofsb.org/pwd/tajiguaslandfill.sbc LF



- Deutsch PhD, J. (2019, March 28). Should restaurants allow guests to bring their own takeout containers? Retrieved February 21, 2020, from https://www.restaurantbusinessonline.com/advice-guy/should-restaurants-allow-guests-bring-their-own-takeout-containers LF
- Ertz, M., Huang, R., Jo, M.-S., Karakas, F., & Sarigöllü, E. (2017, February 23). From single-use to multi-use: Study of consumers' behavior toward consumption of reusable containers. Retrieved from https://www.sciencedirect.com/science/article/pii/S0301479717300786?via=ihu b SS
- Fassler, J. (2020, February 4). Can a new reusable container program—dishwashing included—help solve America's takeout trash problem? Retrieved February 21, 2020, from https://thecounter.org/dig-reusable-container-canteen-pfas/, SL
- Fay, B. (2018, March 9). Dining Costs Eating up College Students' Budget. Retrieved from https://www.debt.org/blog/dining-costs-eating-up-college-students-budget/ LF
- Five Ways That Plastics Harm The Environment (And One Way They May Help). (2018, April 24). Retrieved February 21, 2020, from https://www.forbes.com/sites/grrlscientist/2018/04/23/five-ways-that-plastics-harm-the-environment-and-one-way-they-may-help/#43996eca67a0+ LF
- Galati, J. (2019). OZZI container system to be implemented across campus dining halls in January 2020. PipeDream.

 https://www.bupipedream.com/news/111059/ozzi-container-system
 -to-be-implemented-across-campus-dining-halls-in-january-2020/ GDP
- G.E.T. Marketing. (2017, April 14). What Does Implementing an Eco-Takeouts® Reusable To-Go Program Cost Colleges and Universities? Retrieved February 21, 2020, from https://blog.get-melamine.com/implementing-eco-takeouts-program-colleges-universities LF
- Go Box. (n.d.). Our Mission. Retrieved February 21, 2020, from https://www.goboxpdx.com/mission/, SL
- Grounds To Grow On: RECYCLE YOUR K-CUP® PODS AT WORK. (2020). Retrieved from https://www.groundstogrowon.com/keurig/home.html GDP
- Hall, D. (2018, August 2). Throwaway culture has spread packaging waste worldwide: here's what to do about it. Retrieved February 21, 2020, from https://www.theguardian.com/environment/2017/mar/13/waste-plastic-food-packaging-recycling-throwaway-culture-dave-hall KN



- Harvard University, Sustainability. (2018). Reusable Container Program: Reduce excess waste by joining the reusable container program in dining halls at Dudley, Cronkite, HKS, and HSPH. Retrieved from https://green.harvard.edu/tools-resources/how/reusable-container-program GDP
- How to Reduce Food Waste. (2019, October 11). Retrieved February 21, 2020, from https://www.thinkeatsave.org/top-tips-on-reducing-food-waste/ LF
- Hudson, A. (1970, August 17). Boston College adds reusable, to-go containers in dining.

 Retrieved from

 https://www.cr80news.com/news-item/boston-college-adds-reusable-go-container
 s-dining/ SS
- Jason Treat and Ryan Williams, NGM StaffSource: Roland GEyer, University of California, Santa Barbara . (2018, May 16). We Made Plastic. We Depend on It. Now We're Drowning in It. Retrieved February 21, 2020, from https://www.nationalgeographic.com/magazine/2018/06/plastic-planet-waste-pol lution-trash-crisis/ LF
- Jennings, L. (2019, March 22). Can restaurants ditch disposables? Retrieved February 21, 2020, from https://www.restaurant-hospitality.com/operations/can-restaurants-ditch-disposables KN
- LaMagna, M. (2018, January 16). This is how much waste Americans create just by getting takeout food. Retrieved February 21, 2020, from https://www.marketwatch.com/story/this-is-how-much-waste-americans-create-just-by-getting-takeout-food-2018-01-16, SL
- Lennon, C. (2013, March 18). 10 Products That are Killing the Environment (With Better Alternatives). Retrieved February 21, 2020, from https://www.onegreenplanet.org/lifestyle/10-products-that-are-killing-the-environment/LF
- Maynard, M. (2019, April 3). Diners Are Bringing Their Own Carryout Containers, And Restaurants Are Conflicted About It. Retrieved February 21, 2020, from https://www.forbes.com/sites/michelinemaynard/2019/04/03/diners-are-bringin g-their-own-carryout-containers-and-restaurants-are-conflicted-about-it/#3b9a652 76bb9 KN
- Menzer, L., Parnell-Wolfe, I., O'Carroll, M., & Perkins, D. (n.d.). Behavioral economics of waste management: Identifying factors that influence personal waste sorting practices. Retrieved from



- https://www.facilities.ucsb.edu/files/docs/UCSB_R3C_Behavioral_Economics_of_Personal_Waste%20Sorting_Practices.pdf, KF
- Meyer, R. (2019, April 23). How to Start a Reusable Takeout Container Program at Your College. Retrieved February 21, 2020, from https://www.shareable.net/how-to-start-a-reusable-takeout-container-program-at-your-college/, SL
- Moran, D. (2016, August 29). 4 tips for launching a reusable container program. Retrieved from https://www.foodservicedirector.com/operations/4-tips-launching-reusable-container-program SS
- OZZI. (n.d.). Changing the world from disposable to reusable, one meal at a time. Retrieved February 21, 2020, from https://www.planetozzi.com/, KF
- Peters, A. (2015, January 12). A Reusable Takeout Container To Replace The Hundreds You Toss Away. Retrieved from https://www.fastcompany.com/3037143/a-reusable-takeout-container-to-replace-t he-hundreds-you-toss-away SS
- Plumer, B. (2019, March 29). The New York Times. Retrieved from https://www.nytimes.com/2019/03/29/climate/plastic-paper-shopping-bags.html+ LF
- Restaurant Technologies. (2019, September 10). Eliminating waste—food and otherwise—on college campuses. Retrieved February 21, 2020, from https://www.foodservicedirector.com/operations/eliminating-waste-food-otherwise-college-campuses LF
- Reusable Container Program. (2013, December 4). Retrieved from https://green.harvard.edu/tools-resources/how/reusable-container-program SS
- Reusable To-Go Container. (n.d.). Retrieved from https://www.ohio.edu/food/reusable-container SS
- Royte, E. (2019, July 31). Eat your food, and the package too. Retrieved February 21, 2020, from https://www.nationalgeographic.com/environment/future-of-food/food-packaging -plastics-recycle-solutions/#close, SL
- Shirvell, B. (2019, November 12). This NYC Fast-Casual Restaurant Brand Is Testing Reusable Takeout Containers. Retrieved February 21, 2020, from



- https://www.forbes.com/sites/bridgetshirvell/2019/11/12/this-nyc-fast-casual-restaurant-brand-is-testing-reusable-takeout-containers/#33779be67953, SL
- Staff, I. (2018, June 21). Tajiguas Landfill Gets Expedited Expiration Date. Retrieved from https://www.independent.com/2018/06/21/tajiguas-landfill-gets-expedited-expir ation-date/ LF
- Stony Brook University. (n.d.). Reusable Takeout Container Program | Campus Dining.
 Retrieved February 21, 2020, from
 https://www.stonybrook.edu/commcms/dining/about/sustainability/reusable-tak
 eout-containers KF
- Stoughton, B. (2019, November 21). New dining program for reusable containers provides discounted meals. Retrieved February 28, 2020, from https://georgiastatesignal.com/new-dining-program-for-reusable-containers-provides-discounted-meals/ KF
- Theis, M. (n.d.). Isla Vista, CA. Retrieved March 3, 2020, from https://datausa.io/profile/geo/isla-vista-ca/LF
- The story of how we destroyed our world with plastic and how to fix it. (2019, March 14). Retrieved February 21, 2020, from https://metro.co.uk/2019/01/30/story-destroyed-world-plastic-fix-8405293/ LF
- Theis, M. (n.d.). Isla Vista, CA. Retrieved March 3, 2020, from https://datausa.io/profile/geo/isla-vista-ca/ LF
- UCSB Housing, Dining & Auxiliary Enterprises. (2019, November 13). Sustainability in Isla Vista | UCSB Housing, Dining & Auxiliary Enterprises [Blog post]. Retrieved February 21, 2020, from https://www.housing.ucsb.edu/dining/nutrition-blog/sustainability-isla-vista, KF
- United States Environmental Protection Agency. (n.d.). Reducing Wasted Food & Packaging: A Guide for Food Services and Restaurants. Retrieved February 18, 2020, from https://www.epa.gov/sites/production/files/2015-08/documents/reducing_waste d_food_pkg_tool.pdf, SL
- U.S. Environmental Protection Agency. (2019, November 6). Containers and Packaging:
 Product Specific Data. Retrieved February 20, 2020, from
 https://www.epa.gov/facts-and-figures-about-materials-waste-and-recycling/containers-and-packaging-product-specific-data KN



- University of Manchester. (2018, December 18). Takeaway containers -- the environmental cost of packing our favorite fast-foods. Retrieved February 21, 2020, from https://www.sciencedaily.com/releases/2018/12/181218100410.htm, SL
- WHAT's NEW. (n.d.). Retrieved from http://www.ecotakeouts.com/ SS
- World Economic Forum. (2017, November 28). Takeaway food boxes are destroying our environment. Retrieved February 21, 2020, from https://www.weforum.org/agenda/2017/11/takeaway-food-boxes-are-destroying-our-environment KN
- Wright, S., & Antonelli, S. (2015, October). Rebalancing the Food Waste Equation: A Case Study for Santa Barbara. Retrieved February 21, 2020, from https://www.cecsb.org/food-waste/, KF
- Zimmerman, T., Pryor, M., Cupanion, & Cupanion. (2019, February 1). Reducing Waste with Reusable Containers on Campus. Retrieved from https://cupanion.com/2017/02/reducing-waste-reusable-containers-campus/ SS