

ACADEMIC INNOVATION

2021 – 2022 ANNUAL REPORT





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LETTER FROM THE ASSOCIATE VICE PRESIDENT

Dear friends of Academic Innovation,

This annual report marks the fourth year of growth, change, and learning for the Office of Academic Innovation (AI). We have witnessed the impact of the continued global pandemic, including the implementation of guidelines to keep our campus community safe while returning to in-person learning once again, and phased into our own unique hybrid approach to office operations and events. Our community is stronger than ever because of the resilience, patience, and bravery of every member of our diverse team willing to adapt and develop as guidelines change.

Welcome to AI's 2021-2022 Annual Report. In the upcoming pages, you will see AI's progress and commitment to our core goal: to curate opportunities for experiential learning for the Cal Poly Pomona community through the Center for Community Engagement (CCE), Kellogg Honors College (KHC), Student Innovation Idea Labs (SIIL), Office of Undergraduate Research (OUR), and CPP NSF I-Corps Site Program. This year, AI welcomed three new units: NSF CPP INVESTS (INVESTS), the Career Center (CC), and Innovation Incubator (II). AI's growth and success would not have been possible without the dedicated faculty, students, staff, and external partners and their continued commitment to Cal Poly Pomona's Learn by Doing philosophy. We thank each and every one of you for your support.

This year saw a hybrid return to campus, which was reflected in AI's office model. As services remained open to the campus community, we maintained a safe environment for all students, staff, and faculty who returned to in-person work and classes. The work of the Learn Through Discovery (LTD) initiative was successfully transitioned to various AI offices. The Projects Hatchery is now run by the OUR; our newest office, the Innovation Incubator, is now responsible for the PolyX Hub in addition to Digital Badging, Micro-Internships, and Pop-Up Courses; and the faculty and staff institutes and conferences are run by AI central. The PolyX Task Force is now officially a committee of the Academic Senate, the PolyX Committee. Additionally, the Career Center was moved from Student Affairs to Academic Affairs under the AI umbrella. AI now leads the career and professional readiness initiative for Cal Poly Pomona to ensure that we achieve CPP's strategic initiative to prepare our students for the future of work, human and civic engagement. The construction of a new iLab space was completed, CCE launched the Bronco Stampede of Service, NSF I-Corps hosted two more cohorts to bring their total participants to 150 students, faculty, and staff, and for the first time, we hosted a Summer Conference featuring multiple tracks with 110 faculty and staff participants!

AI units collectively brought in almost \$11 million in external grants! Dr. Olukemi Sawyerr is PI on an \$3 million National Science Foundation (NSF) Hispanic Serving Institution (HSI) Improving STEM education (IUSE) grant named CPP INVESTS (see [page 14](#) for additional details). Dr. Winny Dong is PI on a \$5 million Department of Education HSI STEM grant named STARS and co-PI on a \$280,000 NSF grant on Big Data and Cloud Computing (see [page 32](#) for additional details). Mr. Bryant Fairley is PI on a \$1.7 million California 4 All College Corps grant (see [page 12](#) for additional details). Dr. Olukemi Sawyerr, Dr. Kenneth Lamb, and Mr. Bryant Fairley are co-PIs on a \$1 million U.S. Small Business Administration Financial Services and General Government (FSGG) spending bill to create a STEA2M (Science, Technology, Engineering, Arts, Agriculture, and Mathematics) Innovation Hub in Pomona, CA. The Academic Innovation May Celebration [video directed by our illustrious Judy Nguyen](#) details our collective and individual accomplishments.

I encourage you to look through the following pages of our Annual Report to see for yourself how Academic Innovation has transformed the experience of students, faculty, staff, and external partners this year.

We are eager to continue making a difference, and we thank you for your support in our success so far!

Olukemi Sawyerr

Olukemi Sawyerr, Ph.D. • Associate Vice President • Office of Academic Innovation



Mission

The Office of Academic Innovation (AI) cultivates student success by fostering a culture of innovation in teaching and experiential learning; advancing and promoting a vision of innovative education; and collaborating with faculty, staff, and students to cultivate innovative curricular and co-curricular strategies aimed at nurturing life-long learning in the Cal Poly Pomona community.

Vision

By the year 2025, the Office of Academic Innovation (AI) at Cal Poly Pomona will be the catalyst for developing innovative and transformative educational experiences that prepare students for the future of work and human and civic engagement.



ACADEMIC INNOVATION





Olukemi Sawyerr, Ph.D.
Associate Vice President



Kara Raymundo
Analyst, Academic Innovation



Winny Dong, Ph.D.
Faculty Director, LTD Initiative



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Ericka Olguin
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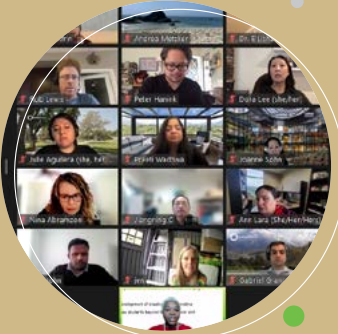


Sinan Cakir
Office Assistant

WINTER INSTITUTE

Develop, Design, and Deepen Your PolyX

Jan 19–20, 2022 • 28 participants



The LTD Winter Institute was a free 2-day virtual institute that assisted faculty and staff of all disciplines in creating and submitting their Signature Polytechnic Experience (PolyX) to the [PolyX Hub](#). Attendees learned about PolyX and its core elements, viewed examples of student work, and heard from colleagues who have successfully implemented a PolyX.

SUMMER CONFERENCE

Inclusive Excellence in Signature Polytechnic Experiences (PolyX)

June 1–3, 2022 • 110 participants

The [LTD Summer Conference](#) was a 3-day in-person conference that consisted of three tracks with seven to eight sessions each and a plenary on Inclusive Excellence. The three tracks consisted of:

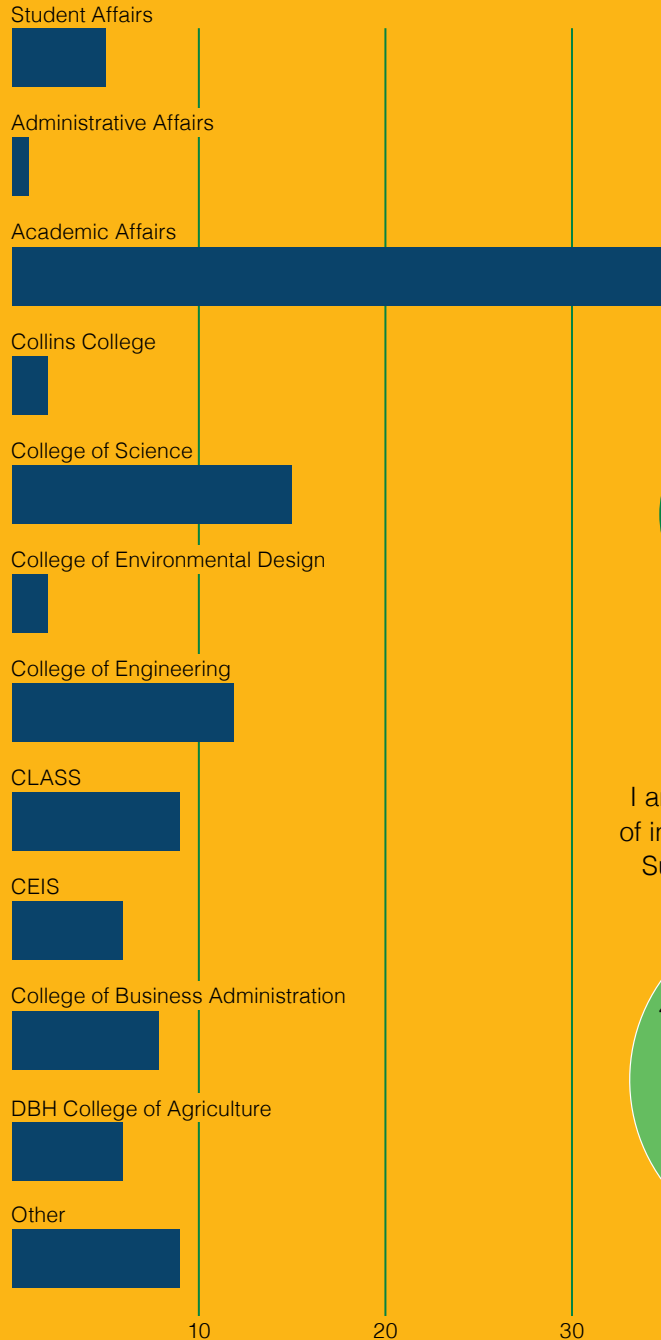
- Community Engaged Learning (CEL) - This track consisted of eight workshops, which provided time for faculty and staff to design and plan for inclusive excellence within community-engaged learning.
- Course-Based Undergraduate Research Experiences (CUREs) - This track focused on implementing elements of a successful Course-based Undergraduate Research Experience (CURE). Faculty and staff members had the opportunity to hear from those who have implemented CUREs in their programs and courses, network with other like-minded colleagues, and receive hands-on assistance in developing or brainstorming their own CUREs.
- First Year Experiences (FYE) - This track gave participants the opportunity to engage in learning and knowledge sharing around teaching first year college students.



[Click here to view more information about current and past AI institutes.](#)

SUMMER CONFERENCE DATA

Faculty/Staff by Department or Division



Breakdown by Track

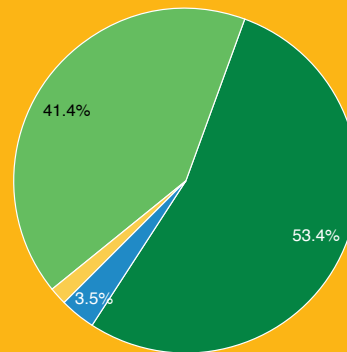


Breakdown by Status

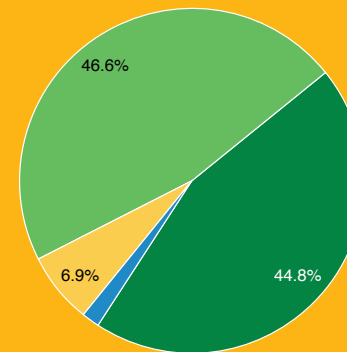


Preliminary Feedback

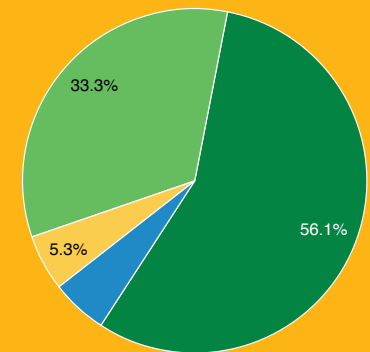
I am satisfied with the quality of information presented at the Summer 2022 Conference.



The information presented during the Summer 2022 Conference was relevant to my work.



The Summer 2022 Conferende material was presented in a clear and organized material.





"At the Career Center we seek to lead, develop and connect a diverse Cal Poly Pomona community in career readiness while preparing students for the future of work."

- Cal Poly Pomona Career Center Staff

Mission

Lead, develop and connect a diverse Cal Poly Pomona community in career readiness and preparing students for the future of work.

Vision

We envision being the leaders in the future of work by creating an equity-minded career readiness model while focusing on collaboration and becoming a valued part of the campus community.



CAREER CENTER

CareerCenter

STAFF



Tracee Passeggi, J.D.
Interim Executive Director



Alexis Lopez
Career Services Specialist



Gerry Russo
Recruiting Coordinator



Cherrie Peters
Career Specialist



LaKisha Torrence
Employer Relations Specialist



David Craig
Career Specialist



Alie Ivie
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DeVoneia L. Jordan
Career Specialist



Ann Lara
Career Specialist



Alexis Tai
Career Specialist



Diana Serafin
Events Coordinator



Ed Venegas
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Cheryl Love, Ph.D.
Career Specialist

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Nafisa Tabasoom

Yesenia Lopez

STUDENT ASSISTANTS

Cindy Chiu

Cristian Reyes

Emily Han

Jacob Alquicira

Julia Montgomery

SERVICES

Employer Recruitment & Student Engagement

On Campus Interviewing (OCI) Program: This provides students the opportunity to interview in-person or virtually with organizations from diverse industries during the fall and spring semesters for full-time salarized and paid internship positions. All job postings associated with OCI are located in CPP's Handshake.

Career Student Services

Career Readiness: The Career Center has a college-specific career specialist for each of the eight colleges. The career specialists help students start exploring career options and provide practical steps to help navigate the career process. Additionally, throughout the year students can drop into the Career Center for abbreviated career consults. Approximately 60% of all sessions were requested by senior students and 90% of sessions were held virtually through Zoom.

Career Center Assessments: The Career Center also provides students with complimentary Career Assessments, including CliftonStrengths, Myers-Briggs Type Indicator, and Strong Interest Inventory.

Career Center Workshops & Events: The Career Center partners and hosts workshops and events with student clubs & organizations, faculty, Student Affairs, and other key campus stakeholders to create a career ready campus. Posted on MyBAR, workshops cover a wide range of career readiness topics.

Student Voice: "I was just offered an internship working on creating new materials for flight applications. It's one of the best-case roles/positions for where I want to begin my career. I am so grateful for your help with my resume and cover letter. I won't forget that you invested time into my success. Your help has made a significant difference in my career trajectory, and I cannot express how appreciative I am."

– Jesse Williams

HIGHLIGHTS

84%

increase in employer
information sessions

3,030

students attended an
Employer Information
Session

28

employers hosted
interviews for CPP
student employment
placement

167

career related
workshops throughout
campus with 2,849
students

2,088

meetings with
Specialists to discuss
career related
topics

Top 3 Requested Individual Career Advising Appointment Types

Resume &
Cover Letter

Career & Major
Exploration

Job Search

Top 3 Requested Workshop Types

Resume &
Cover Letter

Career Center
Overview

Job Search
& Internships

Handshake Statistics

34%

increase in new
employer accounts

120,781

part-time and full-time
job, internship, and
volunteer postings

17,322

unique logins by
CPP students and
alumni

EVENTS

Career Fairs

The Career Center hosted eight career fairs throughout the academic year. Career Fairs provide students with the opportunity to meet employers who are interested in connecting about career opportunities. In the 2021-2022 year, the Career Fairs have continued to see employer participation growth in 70% of all events.

Career Fair Student Registration by Major:

ENG: 42% • CBA: 24% • SCI: 11% • CLASS: 8% • Collins: 5% • AG: 4%
Unknown: 2% • ENV: 1% • Ext. Univ.: <1% • Undeclared: <1%

Highlights:

4,464 students registered to attend career fairs hosted and supported by Career Center.

Approximately 50% of career fair registrants are seniors. Approximately 39% are comprised of juniors, master's students, and alumni. Lower classmen, doctoral students, and certificate students are the smallest represented groups at career fairs.

All career fairs were held virtually utilizing the Handshake career services platform.

Approximately 10% more employers participated in this year's career fairs compared to the 2020-21 AY.

Held first ever on-campus student employment hiring fair with 18 on campus employers, including ASI & Foundation, and 514 students registered.

College of Environmental Design hosted 2nd Annual Urban and Regional Planning (URP) Career Day in collaboration with the Alumni Association and URP Alumni Chapter.

CPU 1100

Career and Personal Exploration - 2 Unit Class

The course focuses on the systematic development of information about the following: (1) Self: including values, interests, and skills, (2) Environment: including career areas, fields, and occupational information, (3) Decision-making, and (4) Career search techniques. The course also includes career interest assessment, personality preference and strengths assessment as they relate to career roles. A total of 104 students enrolled in the six sessions of CPU 1100 taught in the fall and spring.

3

sections taught
by Career Center
Specialists

CLOTHES CLOSET

Put Your Best Fit Forward

This is a Career Center service that provides free professional attire and styling advice for students. While the Clothes Closet previously primarily operated as an in-person boutique, COVID required an immediate shift to service delivery. With funding from ASI and Student Affairs, the Clothes Closet was able to provide students with \$75 Amazon gift cards for appropriate attire for interviewing. Through this collective effort, students were able to continue to "put their best fit forward" even in the midst of a pandemic. While the Clothes Closet will no longer reside in the Career Center, the dedicated staff and interns have set a strong foundation for it to continue into the future under Basic Needs leadership.

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Clothes Closet
Stipends awarded

\$25K+

funds allocated to stipend
program, which increased
from \$50 in fall '21 to \$75
in spring '22

6

undergrad interns
receiving course credit
with Clothes Closet



Mission

The Center for Community Engagement (CCE) strives to enhance learning, encourage career exploration, inspire civic engagement and empower students with meaningful community engaged learning experiences that have a positive impact on our local community, region and world.

Vision

To engage, empower and encourage students to become civically minded graduates; reflecting the impact of an experiential education to inspire students to learn by doing good.

CENTER FOR COMMUNITY ENGAGEMENT



"The Center for Community Engagement encourages faculty to incorporate community-engaged learning experiences, empowers students to make a social impact, and inspires students to explore meaningful solutions to address today's most pressing problems."

- Bryant Fairley, Administrator of CCE

STAFF



Bryant Fairley
Administrator



Marissa Setyawan
Administrative Coordinator



Joselyn Yap
Administrative Analyst



Queenie Du
Co-Op Education Program Coordinator

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FACULTY FELLOW



Lydia Chen Shah
Faculty Associate



Nicholas Piazza
Student Assistant



Jennifer Villalba-Zavala
Student Assistant

STUDENT ASSISTANTS

HIGHLIGHTS

Rebranded the CCE, highlighting CPP's ethos "learn by doing" as a key feature of a polytechnic education

Learn By Doing Good

Launched the Bronco Stampede of Service, to introduce civic engagement and volunteer service experiences connected to the [United Nations 2030 Sustainable Development Goals](#)



Currently leading the effort in developing and operating Cal Poly Pomona's division of the [Californians for All College Corps](#)

Facilitated the Community-Engaged Learning track of the Learn Through Discovery Summer Conference 2022



Relaunched the CCE Faculty Fellows (2022-2023 Service-Learning/CEL Faculty Fellows Program), which is designed to assist faculty with integrating service-learning into a new course



STATISTICS

Engaged Learning Course Based Outcomes

97

service-learning courses

776

student participants

11,669

hours*

* average of 15 hours per student

Academic Internship Success

248

internship courses

1,177

student participants

99,376

hours*

* average of 84 hours per student

Cooperative Education Success

27

student participants

15,261

hours*

* 20 hours per week during academic year; 40 hours per week during summer, spring, and winter break

CO-OP STUDENT VOICES



"I have waited for 3 years since coming to California State Polytechnic University, Pomona to earn an internship opportunity but was faced with multiple rejections. So, I say to anyone who are currently struggling to find an opportunity, to stay the course and something good will eventually come. Special thank you to the Cal Poly Pomona's Co-Op Education Program and MWD, LA for making all of this possible."

–Ega Herlim, Engineering
Metropolitan Water District, Los Angeles

"At MWD, La Verne, everyone was great. Miriam Ghabour was an exceptional chemistry laboratory supervisor, with constant feedback about my work. I was able to learn more lab techniques that were not taught in the classroom."

–Noor Naji, Chemistry
Metropolitan Water District, La Verne



"Going through this internship process has opened my eyes to new career paths I never before considered. Seeing what my degree can lead to has encouraged me to not be limited by "design oriented" positions. Thank you MWD, LA and Cal Poly Pomona!"

–Johannes (John) Hansel, recent CPP graduate in Mechanical Engineering
Metropolitan Water District, Los Angeles

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IN THE NEWS



FYE Fall Bronco Stampede of Service
["On-Campus Volunteering Events
Commemorate 9/11 Anniversary"](#)

PolyPost article by Ethereal Reyes – Sept. 7, 2021

#CaliforniansForAll College Corps
["CPP Students to Impact Regional Issues,
Earn Stipends Through New Fellowship Program"](#)

PolyCentric article – Jan. 20, 2022



About the Grant

Cal Poly Pomona Intentional Venture Engaging STEM Students (CPP INVESTS) is a National Science Foundation funded grant (Award #2122567) aimed at improving undergraduate Science, Technology, Engineering, and Mathematics (STEM) education at Hispanic Serving Institutions (HSI). CPP INVESTS aims to enhance the quality of undergraduate STEM education and the recruitment, retention, and graduation rates of STEM students at Cal Poly Pomona by expanding student pathways to continued STEM education and integration into the STEM workforce. INVESTS will embed experiential learning through selected High Impact Practices (HIPs) at critical transitions in the STEM student life cycle to engage students from their first year to post-graduation with particular attention to students from underrepresented and minoritized groups and those who are first-generation. In addition, CPP INVESTS will offer faculty professional development in the areas of inclusion, diversity, equity, and accessibility (IDEA). INVESTS has three inter-related goals.

- Goal #1: Embed High Impact Practices (HIPs) at critical transition stages.
- Goal #2: Implement four alternative learning records (ALRs) to enhance the transition of STEM students into the STEM workforce.
- Goal #3: Provide STEM faculty professional development opportunities anchored in inclusion, diversity, equity, and accessibility.

CPP INVESTS

CPP
invests





Olukemi Sawyerr, Ph.D.
Principal Investigator



Alison Baski, Ph.D.
Co-Principal Investigator



Winny Dong, Ph.D.
Co-Principal Investigator, CUREs



Nina Abramzon, Ph.D.
Co-Principal Investigator, FYE



Claudia Garcia-Des Lauriers, Ph.D.
Co-Principal Investigator, Faculty PD



Bryant Fairley
Senior Personnel, Micro-Internships



Joselyn Yap
Micro-Internships



Mai Tran
Program Manager



Judy Nguyen
Project Coordinator



Courtney Koletar
Cobblestone Program Evaluator



Monique Matelski, Ph.D.
Cobblestone Program Evaluator



Janel Ortiz, Ph.D.
CUREs Faculty Fellow



Keith Forward, Ph.D.
CUREs Faculty Fellow



Victoria Bhavsar, Ph.D.
Senior Personnel, Faculty PD



Dora Lee, Ed.D.
Senior Personnel, FYE



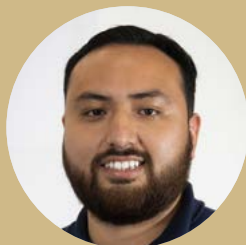
Ever Barraza, Ed.D.
Senior Personnel, PLA



Ericka Olguin
Micro-Internships and ALR



Kenneth Lamb, P.E., Ph.D.
Senior Personnel, ALR



Jesus Bermudez
ALR



Won Choi
Data and Research



Preeti Wadhwa, Ph.D.
Senior Personnel, STEM Research



Iyobosa Osawe
Student Assistant

STAFF

Goal 1: First Year Experience (FYE) and Peer Learning Assistants (PLA)

The goal of the Faculty Learning Community (FLC) is to provide a collegial community for First Year Experience (FYE) instructors, offer a more uniform experience to students across FYE sections, and learn from each other what works and what doesn't work for our students. This is an opportunity to challenge and support one another, while developing FYE syllabus or activities.

Objectives for the FYE FLC:

- Understanding first-year students and trends
- Considering pedagogy for first-year students, and curriculum design
- Developing FYE syllabus and/or activities emphasizing PolyX activities

Nine faculty from the Colleges of Agriculture, CLASS, and Science participated in the Spring 2022 FYE Faculty Learning Community.

CURES

INVESTS plans to achieve the following goals: i) Embed course-based undergraduate research experiences (CUREs) into every STEM discipline.

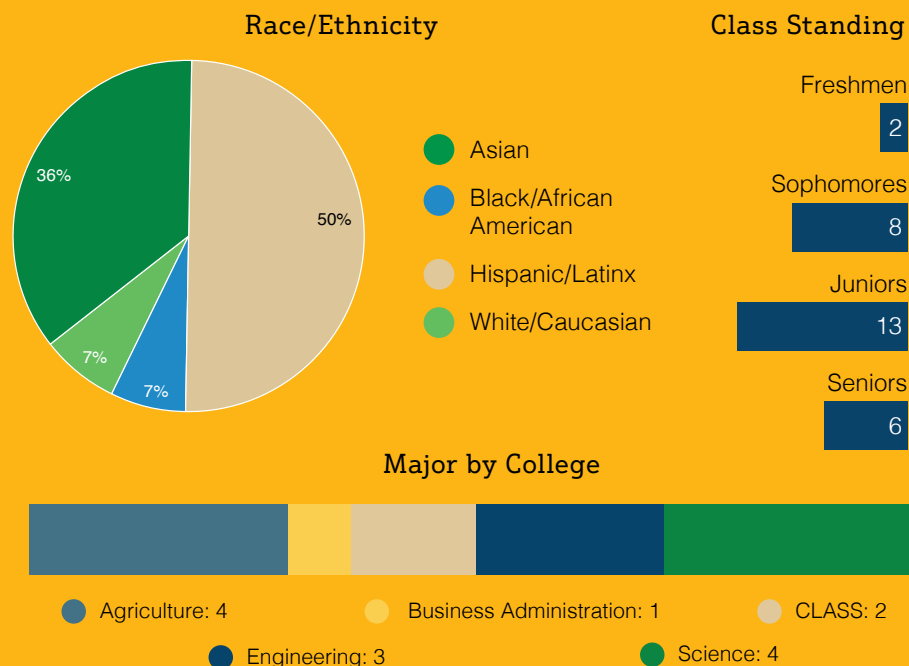
ii) Embed CUREs into critical second year STEM courses, FYEs, capstone courses and upper division GE courses. iii) Change the culture at CPP so that CUREs are celebrated, recognized, and valued. INVESTS will accomplish this through the following activities: i) Document the extent that CUREs are currently included in STEM courses in years 1 and 2 of the grant. ii) Based on this information, identify additional STEM courses, with a focus on second-year, FYE, capstone, and upper division GE courses, that would be strong candidates to add CUREs. iii) Work with academic departments to identify and integrate CUREs into these courses from years 3 to 5 of the grant.

Micro-Internships

INVESTS proposes to accomplish the following goal: Create, pilot, and assess six-week project-based paid internship experiences during the 15-week semester embedded in eight gateway junior STEM courses and senior capstone STEM courses (three in Engineering, three in Science and two in Agriculture). INVESTS will accomplish these goals through the following activities: i) Collaborate with academic departments to identify gateway junior and senior-level courses to embed micro-internships. ii) Collaborate with industry and community partners to develop a clearinghouse of 100+ project-based experiences over the life of the grant that students can complete in five to six hours per week working virtually or in-person for a total of 30-40 hours per project. iii) Place 50 students per semester beginning in year 3 for a total of 300+ students for the life of the grant. iv) Assess the micro-internship program to better understand its impact on student success, graduation, and retention rates and to ensure it is aligned with learning outcomes, meets students' expectations for relevance and rigor, develops work habits and attitudes necessary for career success, and provides meaningful deliverables for industry partners.

Spring 2022 PLA Student Demographics

29 students • 71% first-generation



Goal 2: Alternative Learning Records (ALRs)

INVESTS will participate in these efforts to accomplish the following goal: Implement, pilot and assess ALRs to enhance the transition of STEM students into the workforce by creating two career development pathways each with two learning records: Leadership career development pathway with teamwork and communication learning records; and Research career development pathway with information literacy and problem-solving learning records. Leadership and research are connected to the elements of CPP's inclusive polytechnic education model. After these two pathways are established others can be created and managed within the ALR.

Goal 3: Professional Development

Opportunities for Faculty Professional Development

The professional development team composed of Claudia García-Des Lauriers and Victoria Bhavsar have worked diligently to schedule two University of Southern California Equity Institutes that will take place during the Fall 2022 and Spring 2023 semesters. In addition, we have already completed our recruitment of faculty that will participate in the first cohort in the Fall of 2022 and the spring cohort is about 60% recruited.

These opportunities are brought to you thanks to CPP INVESTS and President Coley's support. Faculty participants will receive institutional data support, \$500 stipends, and certificates of completion.

Career & Professional Readiness Initiative

Goal: Prepare Our Students for the Future of Work, Human & Civic Engagement

Students have sequenced academic and co-curricular experiences supported by coordinated planning among the colleges, academic programs, the Career Center and Alumni Relations.

- 1) Implement a plan for student success that spans pre-admission to one-year post-graduation.
- 2) Develop a career readiness model that provides students with early and on-going opportunities to engage with alumni, the company, and industry leaders.
- 3) Advance student learning and civic engagement through initiatives and address community concerns and regional needs.

Career and Professional Readiness Model

Our Career Readiness Model provides students with early and ongoing opportunities to engage with alumni, the community and industry leaders. Learn more about how we prepare students for the future of work by navigating through each year at Cal Poly Pomona.



I-CORPS

About CPP NSF Innovation Corps

The National Science Foundation (NSF) I-Corps program prepares researchers to extend their focus beyond the university laboratory and accelerates the economic and societal benefits of research projects that are ready to move toward commercialization. Through I-Corps, researchers learn to identify valuable product opportunities that can emerge from academic research and gain skills in entrepreneurship through training in customer discovery and guidance from established entrepreneurs.

In 2018, Cal Poly Pomona was one of three CSUs to earn an NSF Innovation Corps Grant. As an I-Corps site, Cal Poly Pomona coordinates projects through the various stages of commercialization. Teams participate in a program consisting of team building, customer discovery, developing a Business Model Canvas and finally presenting their ideas to industry professionals.

Since its inception in Spring 2019, the CPP I-Corps Site program has successfully recruited and trained 59 teams through 8 cohort offerings. These teams consisted of 90 students, 36 faculty members, and 24 local entrepreneurs in a total of 150 participants.





Yao Olive Li, Ph.D.
Faculty Director



Judy Nguyen
Interim Program Coordinator

STAFF

"CPP I-Corps Site program is one of three CSU-based programs funded by NSF, and since 2018 it has served as a miniature incubator by providing resources, infrastructure, advice, training and more importantly networking opportunities, to nurture and support local entrepreneurial teams (including faculty and students) who want to transition their technology from concept to marketplace."

- Yao Olive Li, Ph.D., Faculty Director of CPP NSF I-Corps

TEACHING TEAM



Giuseppe Lomiento, Ph.D.
Associate Professor,
Civil Engineering



Janeya Griffin
Founder & CEO,
The Commercializer™



Olukemi Sawyerr, Ph.D.
Associate Vice President,
Academic Innovation



Sadiq Shah, Ph.D.
Former Associate Vice President,
Research, Innovation, and Economic Development



Trayan Kushev, Ph.D.
Associate Professor,
Management and Human Resources



Winny Dong, Ph.D.
Faculty Director, LTD Initiative



Yu Sun, Ph.D.
Associate Professor,
Computer Science

Cohort 7 (Summer 2021)

Cohort 7 had 9 teams that attended the first course, consisting of a diverse group of 6 faculty participants, 11 local entrepreneurs (highest for this cohort!), and 10 student participants. Their projects were just as diverse as the group, with disciplines including Apparel Merchandising & Management, College of Business Administration: CIS Department, College of Business Administration: CIS Department, Nutrition, Mechanical Engineering, Mechanical Engineering, Industrial and Manufacturing Engineering, Computer Science, Electromechanical Systems Engineering Technology, Sustainable Agriculture, and Electromechanical Systems/Engineering Technology.



Isabel Gutierrez

For the second part of the course, the nine teams presented their revised ideas after holding customer discovery interviews and advisor interviews. After each team presentation, Dr. Kushev, Dr. Li and Dr. Dong shared their feedback with the group. The guest speaker for this cohort was Isabel Gutierrez, a CPP I-Corps alumna and CEO of Vistendo. She presented about her experience during I-Corps as well as updates about her company after the program. She also shared about the steps she took to expand her company since graduating from Cal Poly Pomona. The I-Corps faculty team – Dr. Kushev, Dr. Lomiento, and Dr. Li – also gave live lectures on day 2.

Cohort 8 (Spring 2022)

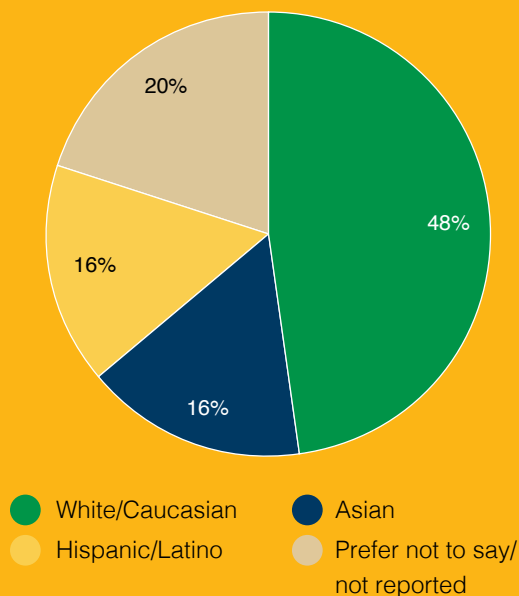
Cohort 8 had 4 teams that attended the first course, consisting of a diverse group of 2 faculty participants, 3 local entrepreneurs, and 11 student participants. Their projects included things such as: NFT apparel collections, automotive manufacturing, renewable and sustainable energy, and solving major challenges of water and energy sectors simultaneously.

The guest speaker for this cohort was Annam Quraishi, Founder of ThinkLean LLC and Co-Instructor of Bay Area Node I-Corps. Quraishi is also a business strategy analyst for Organos and a mentor for the Judge for Techstars Accelerator Programs. She received her B.S. degree at UCSF and then went on to receive her Master of Technology Management degree from UC Berkeley. She shared information and provided detailed steps about her LLC, such as its business model canvas, business plan, and more. Quraishi also presented an interactive segment during her presentation where she asked participants about the aspects of a business model canvas, customer discovery/interviews, experiments, and business ideas.



Annam Quraishi

Ethnicity of Participants



Gender Identity of Participants



52% male, 40% female, 8% prefer not to say/not reported

Did I-Corps meet your expectations?

Survey results showed:

"Exceeded my expectations"



"Met my expectations"



100%

would recommend a future CPP I-Corps short course or workshop to a friend or colleague

"Thanks to SPICE and SIRG grants, I now have a fully functioning stress management app."

– Dr. Kristine Fish, Professor and I-Corps Participant



Updates from Vistendo Inc., a multiple-grant-winning start-up founded by Cal Poly Pomona I-Corps alumna Isabel Gutierrez:



Building upon three SBIR grants, Vistendo is now working with the Johns Hopkins Brain Injury Outcome Center to test its concussion device in comparison with commercial clinical equipment. Vistendo has also received support from Arcadia City Mayor Tai for their mental health mobile app. A recent award of \$500k from the US Army is able to help Vistendo to test their mobile app on its usefulness in improving the mental and physical health of military members. Currently working with CPP athletic trainers and athletes, Vistendo also aims to use this mobile app to enhance mental and physical injury communication safely in sports and kinesiology fields.

Mission

The Innovation Incubator at Cal Poly Pomona aims to invite, inspire, motivate, and incubate experiential learning initiatives and curricula which align with the university's commitment to creativity, discovery, and innovation.

Vision

Innovation Incubator's vision is to foster a diverse community of learners composed of students, faculty, and staff engaged in purposeful, collaborative, creative, and impactful experiential learning experiences to suit their curiosity beyond the university experience.



INNOVATION
INCUBATOR

INNOVATION INCUBATOR

"The Innovation Incubator (II) has made a tremendous amount of progress in our first year. We have built a solid team, identified key faculty and staff collaborators, and launched two new programs designed to support student success and remain excited about II's ability to directly impact the future of work and human and civic engagement."

- Bryant Fairley, Administrator of II

STAFF



Bryant Fairley
Administrator



Ericka Olguin
Senior Innovator



Judy Nguyen
Assistant Project Coordinator

STUDENT ASSISTANT



Alan Quan
Student Assistant

GOAL

Launch Innovation Incubator and create an online and in-person presence on campus.



PROJECTS & ACCOMPLISHMENTS

Podcast

CPP Innovation Station has been established as a new informative podcast for students to learn more about Innovation Incubator's initiatives.



Social Media

Established and maintained social media presence via [Instagram](#).



Website

Established and maintained an ever-evolving [website](#) with coherent themes and branding.



Badging Handbook

In the process of creating a Digital Badging Handbook for both issuers and earners to better understand the process of creating, implementing, and earning digital badges.

INITIATIVES

Digital Badging

Digital badging is an effort to give students the opportunity to earn virtual credentials based on classes, clubs, or programs which teach them core competencies and special skills at Cal Poly Pomona.

Currently, we have:

- 10 Issuers, including the Division of Student Affairs, Division of Student Success, Collins College, ASI, and EODA
- 42 individual badges that include competencies and/or program badges that have been created and are continuously being awarded
- 176 individual badges have been awarded to faculty and staff; this fall, we are striving to award double that amount

PolyX Hub

The [PolyX Hub](#) is a searchable database hosting current and upcoming PolyX opportunities for students. Currently, we have 48 PolyX on the Hub. This spring, 23 applications were submitted for consideration. For additional reach, we were honored to present PolyX to more than 2,400 incoming freshman family members during Bronco Family Orientation. As of June 2022, we are continuing to present at transfer and international orientations and expect to double that number by the end of the summer.

Micro-Internships

A newly launched initiative far ahead of schedule, micro-internships are virtual opportunities for students to take on internships to help forward their careers on a project basis. Our next steps include focused advertising to students and explaining the program to employers and alumni for potential recruitment to expand opportunities available.

Pop-Up Courses

A pop-up course addresses the latest developments in academic fields and in society that have the potential to impact the personal, educational, and professional success of students and does so from multiple disciplinary lenses.

POLYX FYE SHOWCASE

Over 500 first-year students engaged in a Signature Polytechnic Experience (PolyX) their very first semester at Cal Poly Pomona through the [Signature Polytechnic Experience \(PolyX\) FYE Showcase](#). Happening in person for the first time since 2019, the event gave participating students in the [First Year Experience \(FYE\)](#) program an opportunity to engage in a hands-on project by creating a research poster on a topic they care about. Half of the students presented in person at the University Library on Nov. 18, while the other half submitted video presentations. "It was amazing to see so many first-year students sharing the results of their learn-by-doing PolyX projects," said Winny Dong, faculty director of LTD. "After more than a year of virtual instruction and a semester of hybrid instruction, it was energizing to be in a space with so many talented students who are excited to talk about how they plan to make a positive impact in their communities."

Mission

The Kellogg Honors College cultivates students' many forms of talent in an academically enriching environment within an inclusive and nurturing community. We motivate and prepare intellectually curious, civically engaged, lifelong learners.

Vision

We will be a college that fosters an environment, community, and foundation where personal growth, self-awareness, and professional confidence is coupled with academic excellence, innovation, and career readiness to prepare self-aware, civically engaged, visionary, global citizens.

Introduction to KHC

The Kellogg Honors College (KHC) continues its mission of inclusive excellence by cultivating the talents of our students, providing enriching and innovative academic experiences, and building a nurturing community of scholars. We provide our students with significant PolyX opportunities such as Community Engagement (CE) events, student research, internship opportunities, honors courses, and many more high-impact practices that lead to excellent outcomes and student success. KHC strives to support our diverse community of students and nurture them as they make progress towards completing their chosen degree programs and transition to their careers of choice.



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KELLOGG HONORS COLLEGE



STUDENT ASSISTANTS

"At the Kellogg Honors College we strive to embody the Cal Poly Pomona value of inclusive excellence through high quality courses, civic engagement, student research opportunities, mentorship, and student success by cultivating and nurturing a diverse community of scholars."

- Claudia García-Des Lauriers, Ph.D., Faculty Director of KHC



Osasuyi Osawe
Student Assistant



Raphael Napinas
Student Assistant

STAFF



Claudia García-Des Lauriers, Ph.D.
Faculty Director



Won Choi
Academic Coordinator

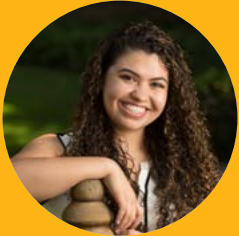
FACULTY



Marcus Elam, Ph.D.
Faculty Fellow

Our Community of Scholars

We had 352 active students this academic year! Our inclusive community of students continues to make us proud with amazing achievements. This year, 257 honors students provided over 1000 hours of service to our local community through their Civic Engagement requirement.



Five of our Honors students were awarded the prestigious Presidential Scholars award, and 62 honors students earned KHC scholarships. Eleven students presented papers and/or posters at the Western Regional Honors Conference at the University of New Mexico. Honors students under the guidance of professor Hyeryung Hwang in IGE1200H were featured in the [PolyPost for their work mapping accessibility on campus](#). Students in ANT3500HS earn course and civic engagement credit through their [community centered work on clean energy](#). KHC Student Zane Landin was chosen as part of the [MTV's Mental Health Action Forum at the White House](#). KHC Student Melanie Olmeda was a Member of [CPP Model UN](#) team and attended the National Model United Nations conference in NYC from April 3-7, 2022. She received the Outstanding Position Paper award and the team received a Distinguished Delegation award.

On June 1, 2022, we also welcomed our new faculty director for the Kellogg Honors College, Dr. Claudia García-Des Lauriers. She has been an integral part of the KHC during her time as an interim director. Her service and commitment to the philosophy of Academic Innovation, outstanding expertise in her field, and passion for the student experience at Cal Poly Pomona is recognized as a great asset to the department and the KHC community.



DEMOGRAPHICS

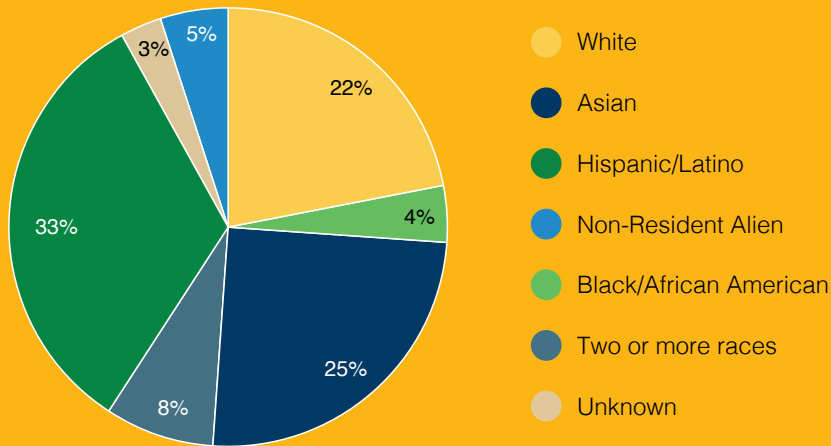
Fall 2021 Population

Gender

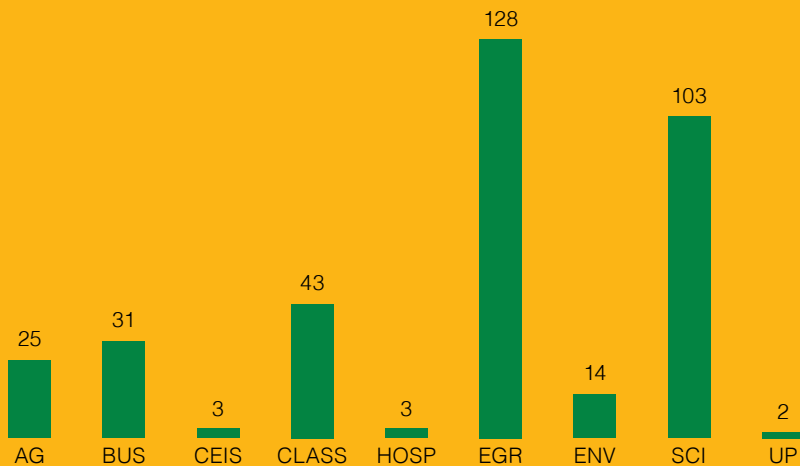


42.9% male, 56.8% female, 0.3% nonbinary

Race and Ethnicity



Scholars Per College



Class of 2022 Outcomes

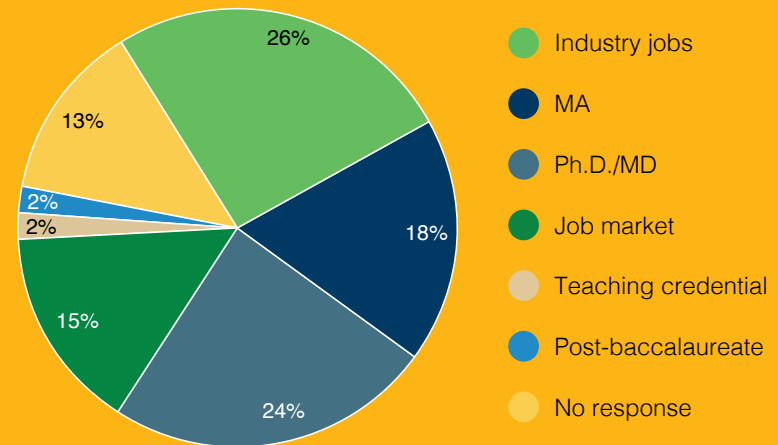
3.78

average GPA of the
KHC Class of 2022

4.1

average years to
graduation in the KHC
Class of 2022

What are students from the class of 2022 doing after graduating from KHC?



“Students who participate in undergraduate research are more likely to graduate on time, gain experience that is valued by employers, create a network of support; increase self-confidence, and attend graduate school. The Office of Undergraduate Research is proud to help students participate in research opportunities and to ensure that these opportunities are accessible to everyone.”

- Winny Dong, Ph.D., Faculty Director of OUR

Mission

Increase the awareness of, participation in, and opportunities for undergraduate research across the disciplines and for students who are traditionally underrepresented in research: lower-division students, and first-year transfer students, as well as under-represented and first-generation students.

Support faculty members who mentor undergraduate student researchers. As an umbrella office, coordinate efforts of programs that provide undergraduate research opportunities.

Vision

Support a diverse culture of experiential learning, discovery, and innovation by ensuring access to research for every undergraduate student.



OFFICE OF UNDERGRADUATE RESEARCH

STAFF



Winny Dong, Ph.D.
Faculty Director



Ever Barraza, Ed.D.
Lead Administrator



Lauren Bernal
Lead Graphic Designer and
Program Coordinator, RIO



Sophia Baroz
Program and
Events Coordinator



Elena Alvarez-Villegas
Program Coordinator, STARS



Hosne Ara Afrin
Program Coordinator, Projects Hatchery



Amanda Riggle
Program Coordinator, BDCC



Alicia Nuñez
Web Developer



Isabella Hoang
Student Voice & Communication Liaison



Elisa Mitchell
Associate



Cynthia Aguilar
Web Developer



Thisuri Fonseka
Fundraising & Research Liaison

FACULTY 31



Mario Guerrero, Ph.D.
Department Chair & Professor,
Political Science



Keith Forward, Ph.D.
Faculty Director, Undergraduate
Studies and General Education



Alex Madva, Ph.D.
Associate Professor, Philosophy



Sandra Emerson, Ph.D.
Professor Emeritus,
Political Science



Nina Abramzon, Ph.D.
Professor and Associate Chair,
Physics and Astronomy



Teresa Lloro
Associate Professor,
Regenerative Studies

STUDENT ASSISTANTS



Aliann Safavi
Student Assistant



Kaira Pettway
Student Assistant



Sophia Pizzulli
Student Assistant



Talia Anis
Student Assistant

PARTICIPANTS IN 2021-2022



Student Populations Served in 2021-2022

Fall 2021

Pell Grant eligible: 321

52.5%

First generation: 375

58.4%

Underrepresented minority: 325

53.2%

STEM: 350

57.3%

Number of students served: 611

Spring 2022

Pell Grant eligible: 225

44.3%

First generation: 278

54.7%

Underrepresented minority: 253

49.8%

STEM: 369

72.6%

Number of students served: 508

Total unique students served: 907

- Through the use of proactive recruitment and program design, the OUR has narrowed the access gap for URM, first-generation and Pell-eligible students to undergraduate research.
- This office leads the new [Student Success and Transfer Articulation through Research and Support Services \(STARS\) Project](#) with \$5 million in support from the U.S. Department of Education. STARS' aims are to provide students with undergraduate research opportunities, mentoring, advising, and resources to promote their personal and academic success.
- The OUR supports two additional externally funded projects, the INVESTS program and the Big Data and Cloud Computing program, both funded by the National Science Foundation.
- The OUR hosted one of the first large in-person events on campus - the Student Research, Scholarship, and Creative Activities Conference in March 2022. The outdoor event featured over 100 student research poster presentations.
- The LTD Projects Hatchery has been moved to its new home under the OUR. It provides a signature polytechnic experience (PolyX) by funding faculty-mentored student projects in four phases.

STUDENT VOICES

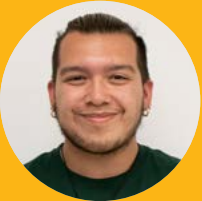


"I believe that getting involved in programs and clubs helps to build a sense of community and belonging in being a part of something bigger than ourselves... and through my involvement in all these programs, I grew more curious to dig deeper into my field of study, and it allowed me to begin my research journey."

–Jezzabella Jimenez, Communication Studies (TESOL)
RIO, ASP, and OUR GRAD participant; Research Distinction recipient

"As a scholar, I recognize my role and responsibility to society. I know that my unique experiences offer valuable perspectives and that who I am at my core has a purpose within academia. My transdisciplinary research will contribute to a more equitable world and expand into the minds of developing scholars."

–Julia LeFrancois, Psychology
Research Distinction recipient



Advice to students: "If you are feeling disheartened because you think you don't fit in, feel like you don't belong there, or got rejected, don't doubt yourself! Anything is possible if you set your heart on it; so believe in yourself, don't give up, keep trying, and move forward. I believe in you."

–Andres Camacho, Biology
RIO and ASP participant

"I have gained insight into project management and budgeting by participation in the STARS program which I never considered before starting. I also learned to push boundaries whether that be implementing more efficient ideas or something as easy as simplifying complex programs that were unnecessarily difficult."

–Nicholas Reyes, Electrical Engineering
Student STARS participant



Advice to Students: To those wanting to begin research, Rosalie emphasizes that it is ok to be intimidated or unsure of one's capabilities at the beginning of the project. "We all had to start somewhere," she says. Through this research experience, her mantra has been "I'm here to learn. I'm going to make mistakes and that's okay."

–Rosalie Rodriguez, Nutrition Science (Pre Health emphasis)
RIO participant



Mission

The mission of the Cal Poly Pomona Student Innovation Idea Labs (SIIL) is to create and maintain an ecosystem that fosters creativity, innovation, and entrepreneurship.

Vision

The vision of the Student Innovation Idea Labs is to be a catalyst for innovation through the establishment of strategic partnerships with internal and external stakeholders on the Cal Poly Pomona campus and throughout the greater Pomona Valley region.

STUDENT INNOVATION IDEA LABS





Kenneth Lamb, P.E., Ph.D.
Faculty Director



Jesus Bermudez
Administrative Coordinator



Renwell Queyquep
Web Developer



Kevin Strawn
Technician



Rhys Rygg
Technician



Inna Falcone
Technician



Michelle Allende
Technical Writer



Jonelle Trillo
Technician



Zane Landin
Marketing Specialist

STUDENT ASSISTANTS



Maria Christiana Marasigan
Technician



Victor Lin
Technician



Benjamin Villa
Technician



Meilinda Darmawan
Graphic Designer

"As the pandemic pushed our operations virtual, our goal was to figure out how to put our makerspaces—a 100% hands-on experience—online. We started by launching online-programming to help start businesses in Summer 2020, and in Fall 2020, we partnered with student organizations to help sustain and build the CPP Maker community through virtual meetings, innovation challenges, and competitions. In Spring 2021, we maintained our partnerships as well as relaunched our startup programming as a mini-certificate program, or badge, to help students prepare for the Bronco Startup Challenge."

We see a bright future ahead. During the coming year, the iLab will relocate to Building 1 into a newly renovated space, the footprint of the Maker Studio will expand, and the SIIL workshop library will diversify to include creativity/innovation training and teamwork development in order to support classroom instruction and extra-curricular training."

- Kenneth Lamb, P.E., Ph.D., Faculty Director of SIIL

AMBASSADORS

Akshat Verma
Amy Pabon
Bala Iganus
Chase Ashley

Christian Contreras
Daniel Murdock
Dennis Lee
Devan Ruiz

Dwight Martinez
Dylan Lim
Frank Greenhouse
Gabriela Prado

Jackie De La Cruz
Jade Eng

Jonathan Camacho
Kyler Martinez
Lizeth Suarez

London Settles
Luana Huang

Miriam Ruvalcaba
Mohraiel Matta
Nicholas Tournie
Pavish Patel

Richard Caracoza
Richie Wong
Riley Rico
Rob Ranit

Robert Salcido
Ryan Bondy
Sergio Santamaria
Seth Laske

CORE VALUES

Community

The most successful creators, innovators, and entrepreneurs are inspired and supported by a creative and inspiring community. Our programming, events, and all our spaces seek to be the fertile ground of innovators and creators.

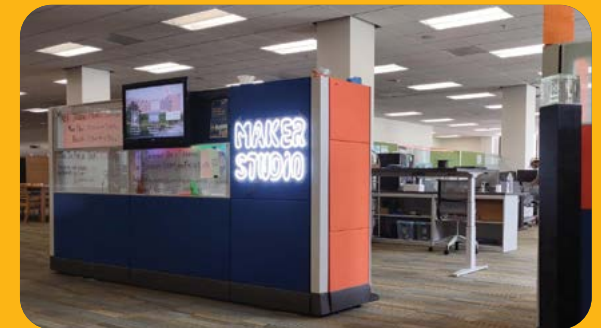
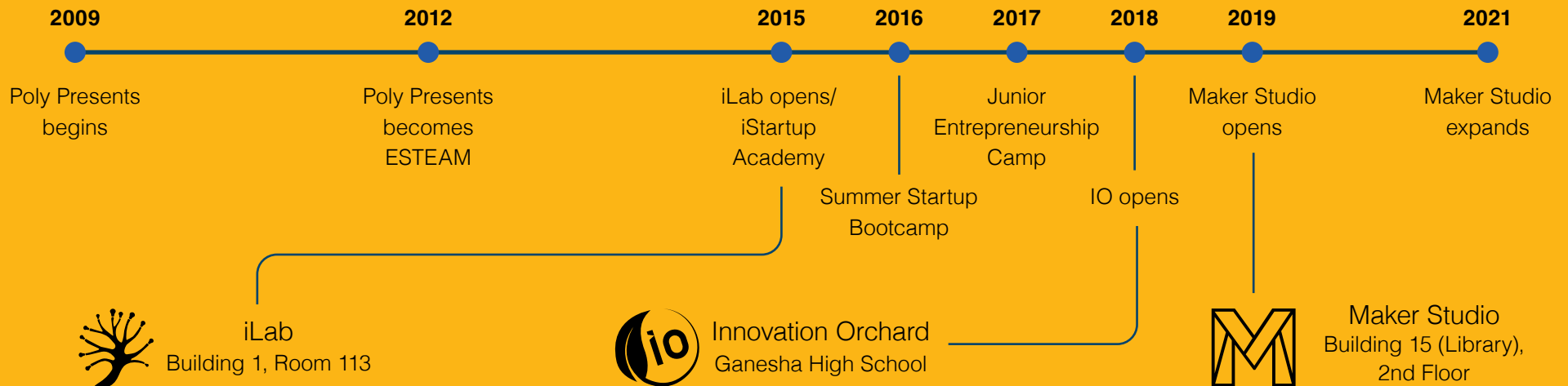
Growth

We support a growth mindset – that all students can learn to create and innovate. Exploring new interests and refining old talents are important parts of creativity and innovation, especially when it deviates from one's normal expertise. We make supportive spaces that allow individuals to embrace the discomfort of discovery while they grow through the process.

Perseverance

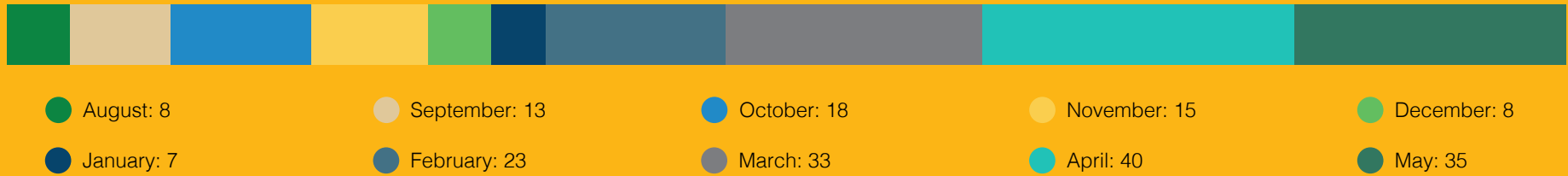
Failure is a vital step in the innovative and creative process. We seek to create an ecosystem that celebrates failure and supports students as they work towards success. Developing perseverance in creativity and innovation is a concept that appears throughout our spaces and educational programming.

Timeline

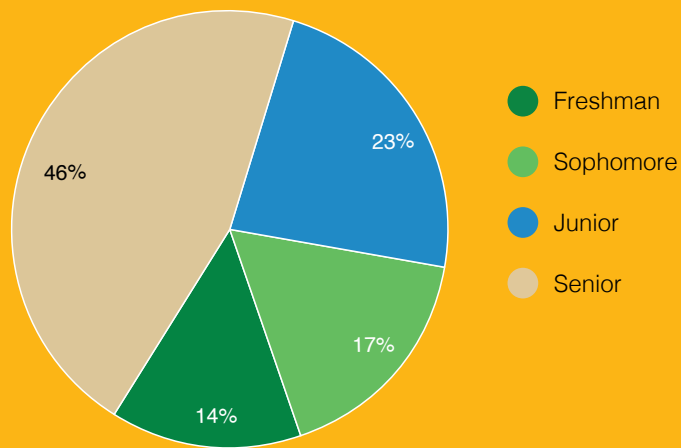


STATISTICS

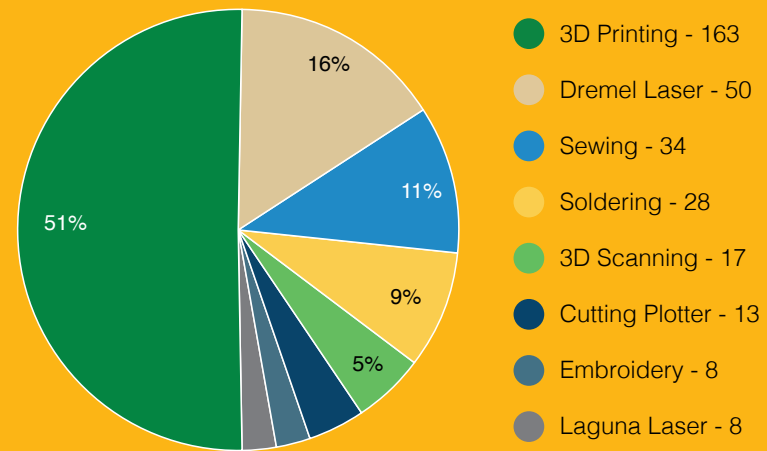
Average Daily Visitors



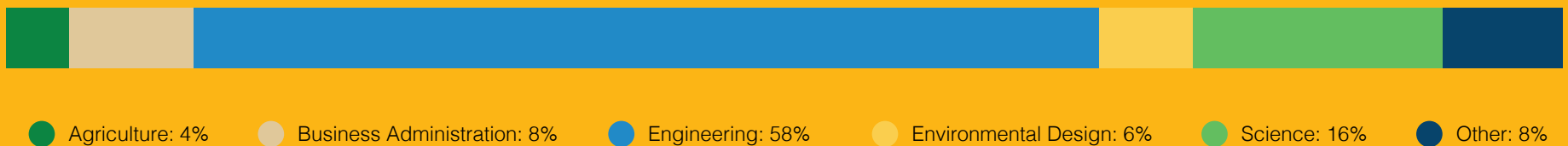
Student Standing



Equipment Trainings Completed



Attendance by College



HIGHLIGHTS

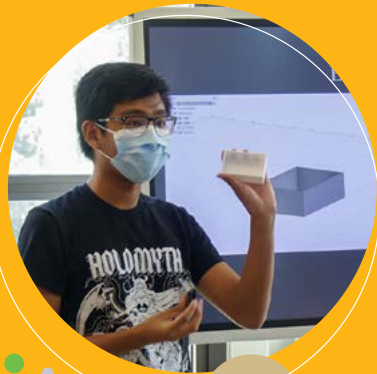


Maker Studio Open House Expansion Celebration

The Maker Studio Open House celebrated the expansion of the Maker Studio in the University Library. The expansion provided additional space for collaboration with faculty to host classes and deliver training. With more space, there is more room for new creation stations including an electronics and circuitry station as well as a hand crafting station for leather working and book binding. Visitors participated in tours and demonstrations by staff and student ambassadors.

Congresswoman Norma Torres Maker Studio Visit

On March 25th, Congresswoman Norma Torres accompanied by President Soraya Coley visited the Maker Studio to celebrate the signing of the bill to fund the Downtown Pomona Maker Space. By touring the space, they saw a sample of what can be expected in the new space, such as the variety of tools available to students as well as some student projects that had used those tools. Congresswoman Torres and President Coley left with more than they came with as they received souvenirs made using tools in the Maker Studio, such as an embroidered bag, and a promise of a bright future for SIIL.

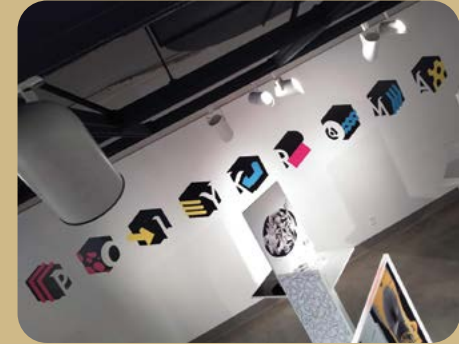


Innovator's Harvest

Innovator's Harvest is hosted at the end of every semester to invite students to present their latest work. All CPP students are welcome to showcase their work as long as their project incorporates any of the tools and equipment that SIIL provides. Participants gave presentations showcasing their project development and progress. The work presented span wide levels of completion - including concept art to a complete project. Innovator's Harvest serves as a spotlight for student work as well as a time for feedback and critique.

ACADEMIC INVOLVEMENT

Across SIIL's years of operation, we have collaborated with various academic programs to help them create a wide range of projects. This academic year, SIIL collaborated with the College of Engineering by providing 3D printer training for several classes, the English department for their Harvest International program, the art department using vinyl cutters to create wall graphics for Poly-Kroma, and Assistant Professor Janel Ortiz by using the IO's laser to assist in creating tools for her research. With the beginning of the next academic year, we would like to collaborate with not only more classes and professors but a wider range of departments to help them make their ideas a reality.



LOOKING FORWARD

In-Person Activities

We are excited to begin a whole academic year of fully in-person activities! We are expecting to see more old faces and also meet many new students who are looking to create, innovate, and start up their next big idea.

Opening of the iLab

After several years of planning, design, and construction, the newly renovated space in Building 1 will be the new home of the iLab space. Able to host groups of people in a comfortable, stylish new area, we hope the iLab will be the go-to place for your next collaboration meeting. Request the space on 25Live now!

IO Renews the MOU with PUSD

After the initial 5 years since the IO's original opening date, we have successfully renewed the MOU with Pomona Unified School District (PUSD) to continue to operate the IO makerspace at Ganesha High School. The new agreement will last another 5 years until June 30, 2027.

Downtown Pomona Innovation Steam Hub

Thanks to the work of Congresswoman Norma Torres, CPP secured a one million dollar grant to help [develop a space in downtown Pomona](#). The next year should result in securing premises, installing equipment, and potentially beginning to serve the greater Pomona community of creators and entrepreneurs.

BMC Role Change

The CPP student club known as the Bronco Makers Club is shifting over to functioning as a team under the SIIL department. The new Bronco Makers Club will lead all the fun creative workshops held within our maker spaces while also seeking out and supporting other student clubs looking to create something for their next club event. This will expand the Student Innovation Idea Labs' ability to better support student clubs and other students projects.

LTD STEERING
COMMITTEE

Aaron DeRosa
Alison Baski
Ericka Olguin
Gina Johnson
Laura Massa
Megan Stang
Olukemi Sawyerr
S. Terri Gomez
Sarah Meyer
Sepehr Eskandari
Tari Hunter
Winny Dong

INSTITUTE AND CONFERENCE PLANNING GROUP

Alison Baski	Janel Ortiz	Monique Matelski
Bryant Fairley	Jesus Bermudez	Nina Abramzon
Claudia Garcia-Des Lauriers	Joanne Sohn	Olukemi Sawyerr
Courtney Koletar	Judy Nguyen	Preeti Wadhwa
Dora Lee	Kara Raymundo	Rebecca Eddy
Ericka Olguin	Keith Forward	Victoria Bhavsar
Ever Barraza	Kenneth Lamb	Winny Dong
Hosne Ara Afrin	Mai Tran	Won Choi
	Micayla Anderson	

Christy Orgeta
Claire Latané
Frances Mercer
Gabriel Granco
Ghada Gad
Giselle Navarro-Cruz
Homeyra Sadaghiani
Hyungchul Han
Jason Lu
Jeffrey Roy
Joanne Sohn
Julie Shen
Kelly Min
Marisol Cardenas
Mehrdad Koohikamali
Preeti Wadhwa
Saamee Lyu
Tamer Omar
Teresa Lloro

LTD TASK FORCE

WALL OF FAME

Alane Daugherty
Alexandra Auslander
Bonny Burns-Whitmore
Brian Ramirez
Carrie Shang
Don Edberg
Eduardo Corpuz
Emily Kiresich
Farbod Khoshnoud
Frances Mercer
Frank Chandler
Helen Trejo
Holly Greene

HATCHERY MENTORS

Hyungchul Han	Renford Reese
Jae Min Jung	Sean Monemi
Juanita Jellyman	Shayda Kafai
Kenneth Lamb	Steven Okuhara
Kevin Autry	Tamer Omar
Kit Kwok	Tarek Elsharhawy
Mary Yu Danico	Teresa Lloro
Peter Ross	Victoria Bhavsar
Randy Stein	Zahra Sotoudeh



Thank you, AI Team!

Designed by Viola Wu, Micayla Anderson, Lauren Bernal,
Taylor Uster, Josue Ruiz, Caitlyn Kubulan, and Rachel Liu

