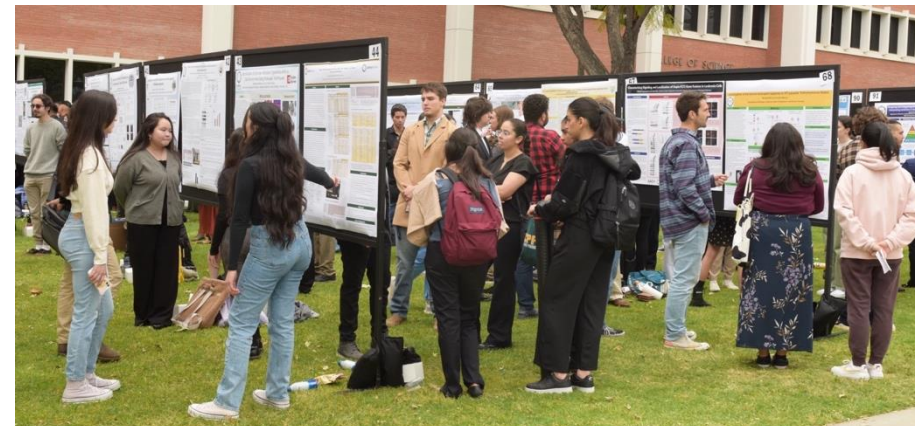


# College of Science

## 2024 Fall Conference

### August 20

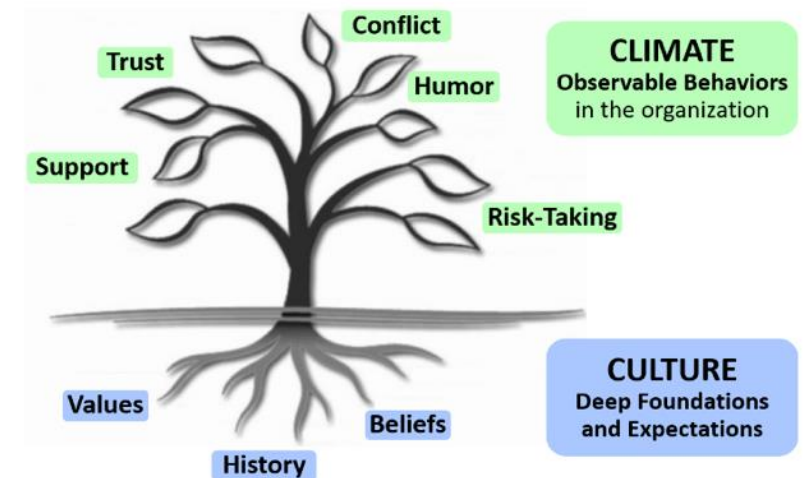
CalPoly  
Pomona



# Today's Plan

- Welcome new faculty and staff
- Recognize promoted faculty and award recipients
- Highlights from college units
- Visitors: CSUEU, CFA, Provost Gomez
- CPP and College Updates

*Fostering curiosity and  
a culture of scientific discovery*



# New Staff – Welcome!



**Diana Saldana**

Director, Academic Affairs  
Business Operations  
Colleges of Science & Engineering



**Dianna Lazaro**

Budget Analyst  
Dean's Office



**Virginia Manzo**

Admin. Support Coord. II  
Dean's Office



**Sonia Gonzalez**

Admin. Support Coord. I  
Chemistry & Biochemistry,  
Physics & Astronomy

# Personnel Updates



**Tatiana Vargas Hernandez**

Curator of Organismal Biology  
Inst. Support Tech. II  
Biological Sciences  
(Permanent position)



**Cristina Jaramillo**

Admin. Support Coord. I  
Biological Sciences  
(Formerly with Dean's Office)

# New Faculty – Welcome!



**Nicole Reynolds**  
Biological Sciences



**Stephanie Mora Garcia**  
Chemistry & Biochemistry



**Rohit Bhide**  
Chemistry & Biochemistry



**Iftekhar Alam**  
Geological Sciences

# New Faculty – Welcome!



**Fatemeh Jamshidi**  
Computer Science



**Sai Kosaraju**  
Computer Science



**Brianna Posadas**  
Computer Science

# New Faculty – Welcome!



**Emily Heath**  
Mathematics & Statistics



**Peter Kagey**  
Mathematics & Statistics



**Siyu Li**  
Physics & Astronomy



**Sujoy Modak**  
Physics & Astronomy

# Departmental Leadership

**Interim Chair**



**Stephen Osborn**  
Geological Sciences

**Interim Chair**



**Gregory Barding**  
Kinesiology &  
Health Promotion  
Fall 2024

**Chair**



**Randall Swift**  
Mathematics &  
Statistics

**Interim Chair**



**Matthew Povich**  
Physics & Astronomy



# Promotion and Tenure



**Elizabeth Scordato**  
Biological Sciences



**Thomas Osberger**  
Chemistry & Biochemistry



**John Korah**  
Computer Science



**Mai Narasaki Jara**  
Kinesiology & Health Promotion

## Congratulations!

# Promotion to Professor



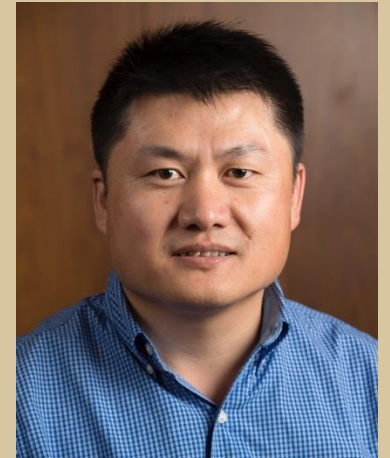
**Gregory Barding**  
Chemistry & Biochemistry



**Bohdan Schatschneider**  
Chemistry & Biochemistry



**Chantal Stieber**  
Chemistry & Biochemistry



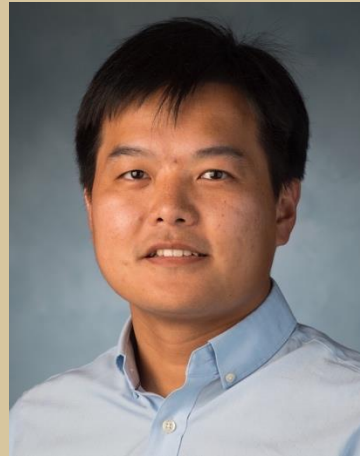
**Peng Sun**  
Chemistry & Biochemistry

## Congratulations!

# Promotion to Professor



**Peter Arensburger**  
Biological Sciences



**Yu Sun**  
Computer Science



**Stacy Musgrave**  
Mathematics & Statistics

## Congratulations!

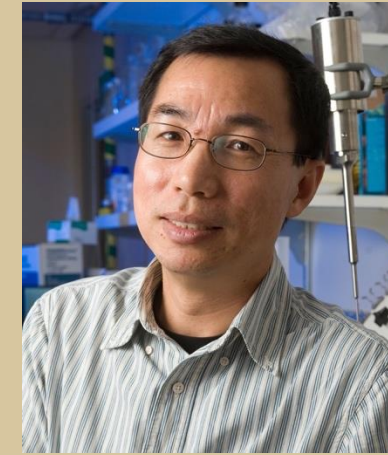
# College Faculty Awards



**Nicholas Van Buer**  
CoS Distinguished Teaching Award  
Geological Sciences



**Elizabeth Scordato**  
CoS Distinguished Teaching Award  
Biological Sciences



**Junjun Liu**  
CoS Ames Distinguished  
Research Award  
Biological Sciences

## Congratulations!

# Faculty Awards



**Juanita Jellyman**  
Provost's Award for  
Excellence in Teaching  
Biological Sciences



**Amar Raheja**  
Outstanding Faculty Advisor  
Computer Science



**Berit Givens**  
Outstanding Advising Partner  
Mathematics & Statistics

## Congratulations!

# Staff Awards



**Kevin Chung**

Instructional Support Tech.  
Biological Sciences  
Fall 2023



**Nicole Garcia**

Admin. Support Assistant  
Science Advising Center  
Fall 2023



**Mari Arriaza**

Admin. Support Coord. II  
Chemistry & Biochemistry  
Spring 2024



**Dan Griggs**

Communications  
& Events Coord.  
Spring 2024

## Congratulations!

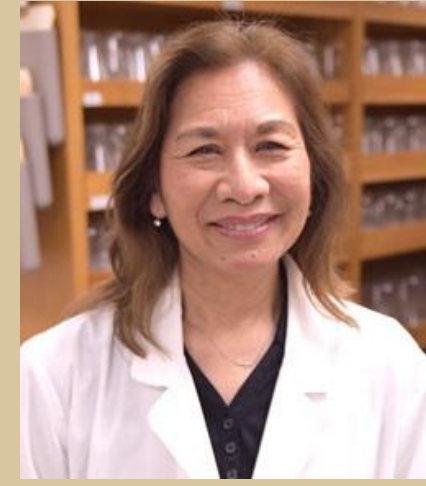
# Service Award for 35 years!!



**Alane Daugherty**  
Faculty  
Kinesiology & Health Promotion



**Jon Nourse**  
Chair, retired/FERP  
Geological Sciences



**Pearl Viggers**  
IST III, retired  
Biological Sciences

## Congratulations!

# CPP Academic Senate



Bharti Sharma  
Executive  
Committee



Berit Givens



Alex John



Stephen  
Osborn



Mohammad  
Husain



Alex Small



John Korah



Greg Barding

The Academic Senate is the official voice of the faculty

Shared governance principles of joint decision-making and consultation between administration and faculty in a spirit of collegiality

## Senate Committees

- Executive
- Academic Affairs (1)
- Academic Programs
- Budget
- Elections and Procedures (1)
- Faculty Affairs
- General Education (2)



# Our Faculty Union Report

- Historic Strike – Largest University Faculty Strike in US History
  - At least 10% raises for everyone in 1 AY.
    - SSIs coming on your hiring anniversary
  - Raised the floor for our lowest paid faculty by over 20%.
  - Increase in parental leave by 67%
    - Pathways to a full semester of fully paid leave
- Bargaining on our next contract starts THIS YEAR!
  - Look out for bargaining surveys coming to you this semester.
  - We can't win without everyone participating in our union.
- Student vaccine mandates have been waived.
  - CFA challenged in court last year and the judge ruled in our favor.
  - All campuses are still out of compliance.
  - CFA attorneys are meeting with the judge this week.

Join your union here!



Say hi or ask me questions: Francie Mercer (Biology) [fkmercercpp@cpp.edu](mailto:fkmercercpp@cpp.edu)

# CSU Employees Union

## Bargaining Units 2, 5, 7, 9



### What is a Union?

#### Student Assistant Union

- New **Unit 15** for Student Assistant Workers
- Largest Student Assistant Union in History!

#### CSUEU Tentative Agreement

- Contract Extension: 2023-2026
- Salary Reform
  - Salary Steps Fully Implemented October 1, 2025
  - Job Classification Review for 8,000+ Employees

### Chapter 319 Activities

- Political Activities Committee (PAC)  
Promote state legislators who stand for our concerns and issues in Sacramento
- Rebuild Campus Relations and Monthly LMCs
- NEOs/ Recruitment: New Members & Stewards

**To Join Contact  
Chapter319  
[www.csueu.org](http://www.csueu.org)**

# Science Advising Center



Diana Ascencio



Lorena Roman



Diana Curtis



Ian Carlson

2023-2024

Over **9,225** advising interactions with 3,147 unique interactions

Orientation spring and summer 2024

Provided academic plans to **970** first-time students and **513** transfer/returning students

**Four new advisors** transitioned into Student Success Advisor role. We have a full team!

Helped to graduate **over 800** students!

Held **11 campaigns** to support targeted groups. Will continue in fall.



Christian Gomez



Mario Tapia



Sheila Ingram



Nicolle Garcia

# Biological Sciences

Retirements: Frank Ewers and Pearl Viggers

New Faculty: Nicole Reynolds

New Staff: Cristina Jaramillo and Tatiana Vargas

25 peer-reviewed publications

Grants: >\$3.8M (Snyder NSF Biofoundry, Lima NIH)

Provost's Award for Excellence in Teaching: Juanita Jellyman

CoS Ames Distinguished Research Award: Junjun Liu

CoS Distinguished Teaching Award: Elizabeth Scordato

Department Teaching Excellence Award: Bharti Sharma

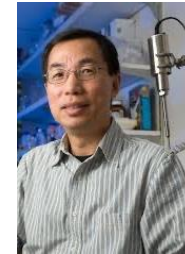
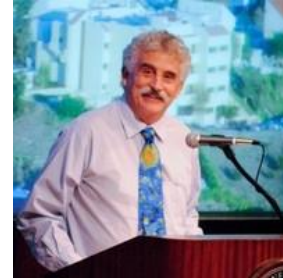
Department Research Excellence Award: Francie Mercer

Department Staff Excellence Award: Cristina Jaramillo

2023-24: Biology Foundations Series Coordination

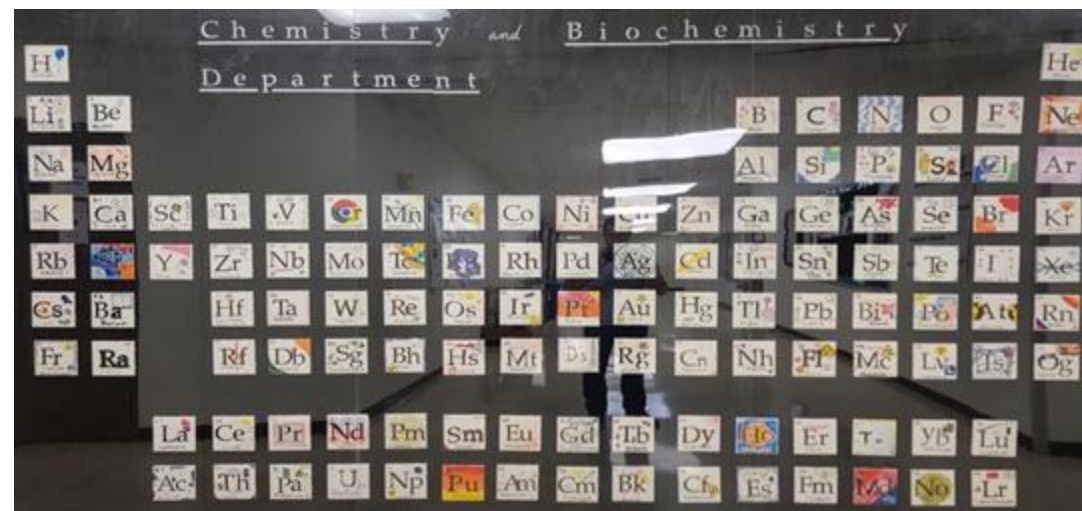
2024-25: TA/Grad Student Professional Development

(Evolving the Culture of Biology)



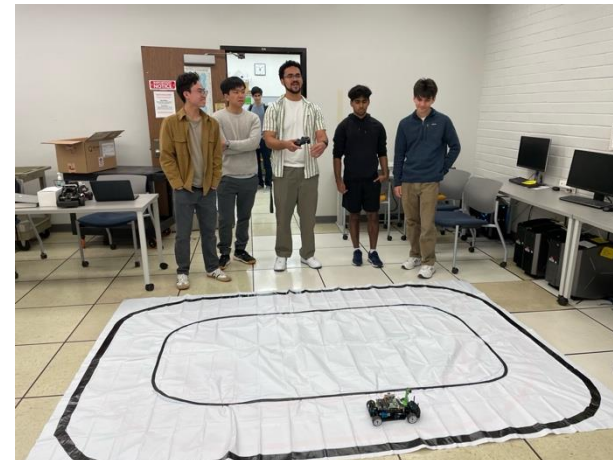
# Chemistry and Biochemistry

- 2 new faculty and 5 post-docs
- A new ASCI (Welcome Sonia!)
- Mari Arriaza won the College Staff Recognition Award for Spring (Go Mari!)
- **New Grants/Awards**
  - Chantal Stieber: NSF-RUI (\$298K), ARI (\$150K)  
Kavli Fellow
  - Alex John: NSF-RUI (\$240K)
  - Rakesh Mogul: NASA (Research Scientist \$650K)  
Quoted by CNN and featured on History Channel's UnXplained
  - Taylor Thane: Organic Synthesis (\$8K)
- **9 Publications**
- Multiple outreach and talks, including one by Laurie Starkey at the AAUW Math and Science conference for 8<sup>th</sup> grade girls
- **Student Highlights:** Aaron Gaynes was RSCA Campus Winner and as an MS student received the ARI-NEXTGEN fellowship



# Computer Science

- Undergraduate: 1,345 and Graduate: 130
- New **Cybersecurity Minor**
- 18 TT faculty (3 new) and 22 lecturers (3 new)
- Raheja (2023-24 CoS Outstanding Faculty Advisor)
- **New and Ongoing Grants:** Chen (NSF, Google, DoE, CA Learning Lab), Ji (NSF), Husain (NSF, CyberCorps, NSA, ONR, AFRL), Korah (CA Learning Lab, USDA, ARI), Marin (NSF), Raheja (NSF), Sun (NSF-BPC), Steichen (CSU-CO), Tang (NSF-BPC, CSU-CO), and Wang (NSF, DoE)



# Geological Sciences



Drone camp in Costa Rica



New field truck and trailer



Field Methods Class



- **Dr. Nourse** retirement
- New geophysics faculty – **Dr. Iftekhar Alam**
- New field truck and trailer
- **Dr. Marshall** led a drone camp field module in Costa Rica
- **Dr. Van Buer** is Field Guide Editor for GSA 24 Annual Meetings

# Kinesiology and Health Promotion

- Department **research** activities
  - High number of students attending and presenting at conferences
- **Strategic doing activities** focused on belonging
  - Jackie Robinson softball game
  - Love Button event
- **Exercise science laboratory** update
- Launched updated **graduate curriculum**
- Third annual **EPEW Workshop**
- **CCTC Accreditation**





# Mathematics and Statistics

## New Masters of Science Program

Two MS degrees (Mathematics or Statistics and Applied Mathematics)

Two emphases (pure, math ed), and Two options (applied, statistics).

New program is more deliberate and concentrated course plans.

## Some Faculty News

### Arlo Caine's sabbatical

- Consulted for Kane Robotics Inc., makers of smart tools for lightweight automation in material removal processes
- Robotic arm - used ICR funds from many years of grant work to purchase a UR5 collaborative robot arm to continue these research and learning efforts on campus

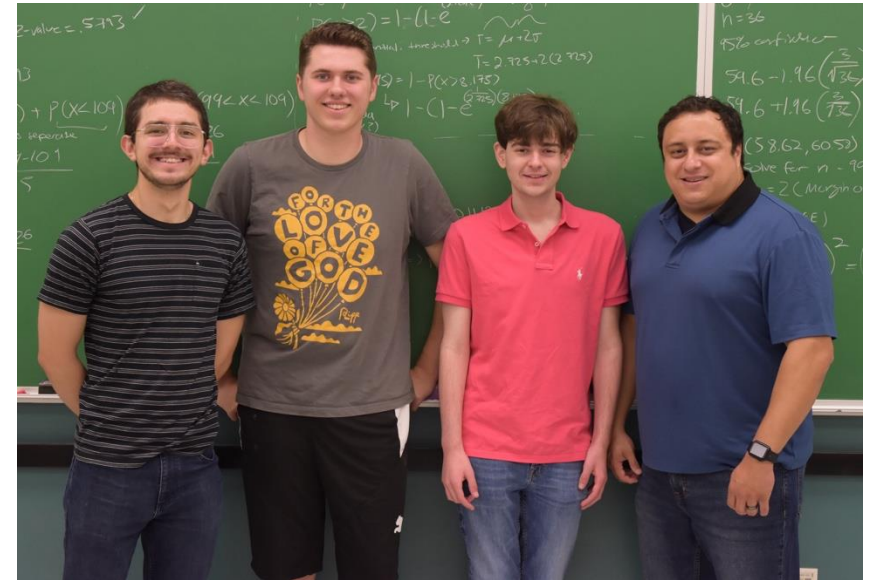
### Ioana Mihaila's Fulbright

- Recipient of a Fulbright Teaching Award in Indonesia. During Spring 2024 she taught undergraduate and graduate Real Analysis at Universitas Negeri Yogyakarta and gave talks at various Indonesian universities

## Some Student News

Our [Putnam Exam](#) team made an impressive showing in the last competition. They placed 132<sup>nd</sup> nationally.

Clayton Coe earned 21 points. Ian Farish, and Samuel Lucas Mazariegos both scored 10.



# Physics and Astronomy

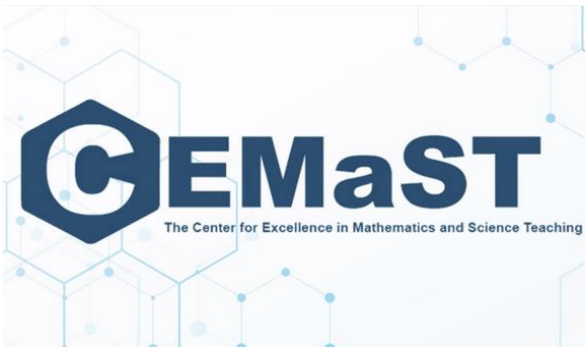
- **Class of 2024:** 17 graduates  
*Job placements* include U. Missouri, Fermilab, Naval Air Warfare Center, MKS  
*Grad study* includes UCR (PhD), Ohio State (PhD), U. Oregon (MS), SJSU (MS), CPP Teaching Credential
- **Major Faculty Transitions:** 4 retirements, 2 new TT faculty, 1 new lecturer, *this year TT search for experimental physicist*



- **≥8 New or continuing grants; >\$700k** external funding (NSF, NASA)  
**\$16k SPICE for lecturer** to redesign GE lab course
- 8 peer-reviewed **publications**, 3 with *undergraduate* lead/co-authors
- **>40 undergraduate supervised research projects**
- **Paid summer research internships** at CalTech, Harvard, U. Oregon, U. Michigan, U. Wyoming, U. Madison, CPP and more.
- 16 undergraduates in **2<sup>nd</sup> CPP Astronomy Advantage Summer School**
- **>20 conference presentations** and proceedings contributions by faculty and undergraduates, including Physics Education Research, American Astronomical Society, Association of Nepali Physics in America, Annual Conference on FYE, and American Institute of Physics



Physics and Astronomy Representation at the Spring 2024 CoS Alumni Event



Becki King  
 Dr. Janel Ortiz  
 Dr. Jessica Perez  
 Dr. Jodye Selco (FERP)  
 Dr. Qing Ryan (Joint appt)  
 Dr. Stacy Musgrave (Joint appt)

## Goals

- Partner and leader in equitable and inclusive STEM education.
- Nurture and support STEM-related initiatives with local schools.
- Provide support to CPP math and science students to consider K-12 teaching.
- Improve curriculum and instruction in STEM K-16, including at CPP

## Faculty Fellows for 2024-25!

Faculty	Area of Study
Marisol Diaz	CEIS Early Childhood Studies
Yu Sun	Computer Science
Thomas Chrien	Applied Optical Engineering
Rachel Blakey	Global Change Biology, Ecology
Dan McCarthy	Biology, Science Education
Eliud (Eddie) Partida	CEIS K-12 STEM Education
Juanita Jellyman	Biology, Physiology



# Science Educational Enhancement Services (SEES)

Funded 33 research scholars through NSF SPIRES & NSF LSAMP programs



LSAMP Joint Dinner with Fullerton and Long Beach



- Discovery Camps – 914 campers
- Eight student socials
- 22 Professional Development Workshops
- Bringing back AEWs for General Chemistry I & II
- Joint Dinner for research scholars with Fullerton, Long Beach, Dominguez Hills, Northridge & Los Angeles.



# CPP Updates



## Future Career Paths

Career Center AI utilization using **biginterview** and **vmock** (next slide)

## Budget Challenges

Academic Senate retreat

Professional needs allocation (\$750 per FT TT)

## Emerging Technologies

Generative AI, GIS (Esri), and Cyber



Basics of generative AI

DATE: Aug 29, 2024 @12-12:50pm  
FORMAT: Online via ZOOM

Investigate generative AI in your discipline

DATE: Sept 12, 2024 @12-12:50pm  
FORMAT: Online via ZOOM

Prompt engineering is key

DATE: Sept 26, 2024 @12-12:50pm  
FORMAT: Online via ZOOM

CAL POLY POMONA GIS DAY

## BRIDGES TO THE FUTURE

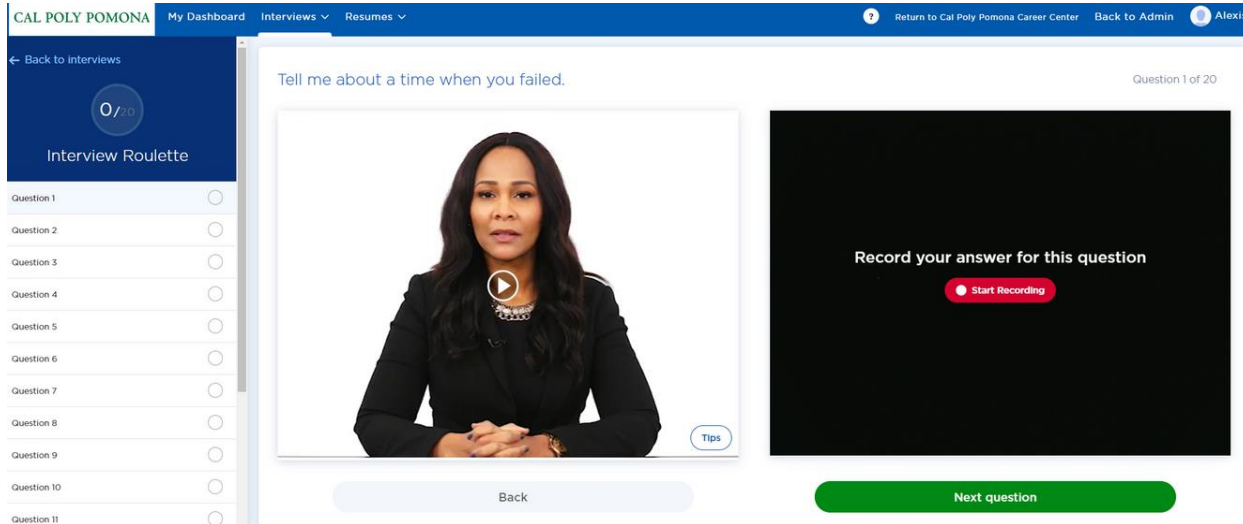
Now CPP GIS Day: Bridges to the Future

Check out what happened for GIS day in November with videos of the event!

[GIS Day Article](#)

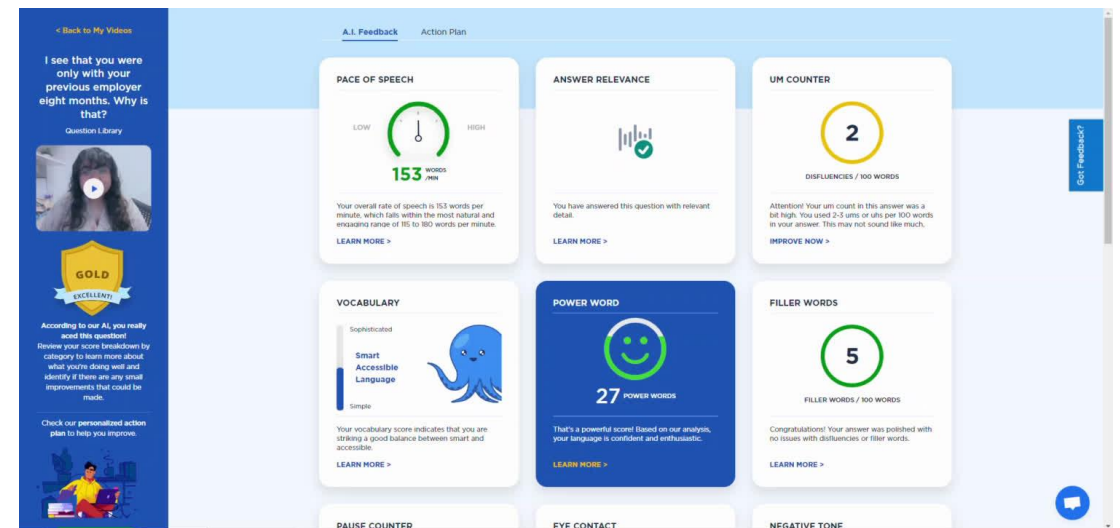
CalPolyPomona College of Letters, Arts, and Social Sciences

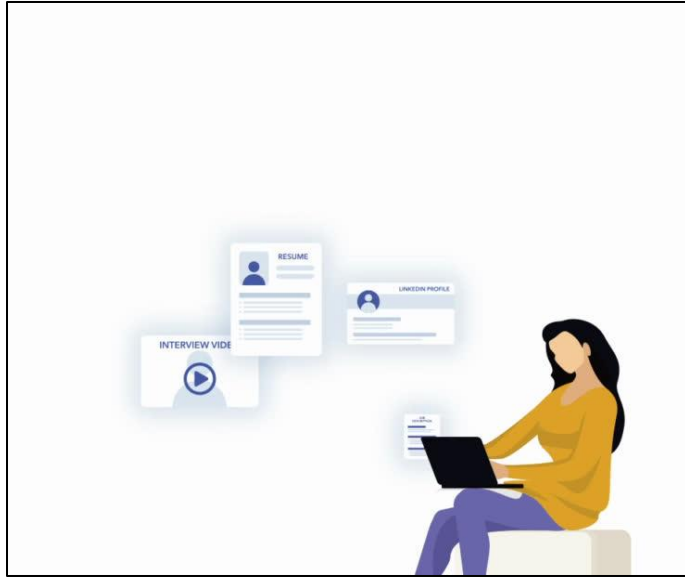
The graphic features a central globe with various icons representing technology and geography, such as a satellite, a smartphone, a laptop, and a person. The text is in a clean, modern font, and the overall color scheme is light blue and green.



Students record video responses to 20 practice interview questions for AI feedback!

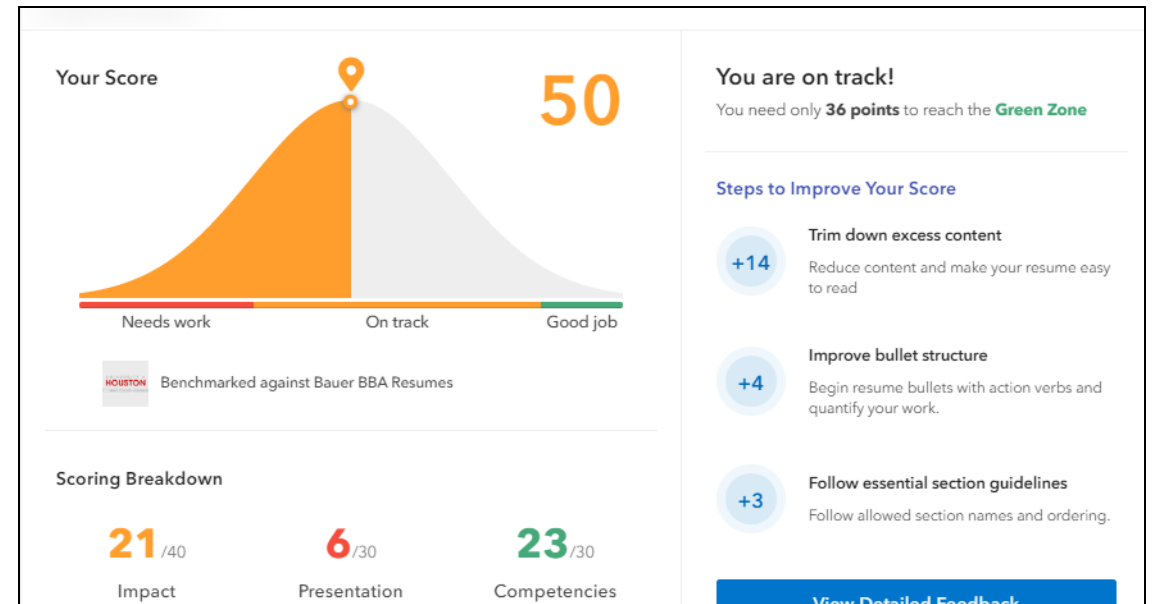
- AI tracks video response features including eye contact, filler words, answer relevance, pauses, and more!
- Based on AI grading, students receive a score and in-depth action plan for improvement





- **Elevator Pitch** provides time aligned instant feedback on body language, diction, & content.
- **Aspire (LinkedIn)** utilizes AI to identify profile strength, keyword optimization, and Skill Gap analysis.

- **Career Fit** provides an analysis of qualifications and experience for a desired career track.
- Gain instant and personalized feedback through **SMART Resume**, using resume score benchmarks.



# College of Science

## Our Vision

*Fostering **curiosity** and  
a culture of scientific **discovery***

## Our Mission

*Educate, mentor, and inspire students  
through scientific inquiry and  
hands-on learning*

## Our Values

CURIOSITY  
INTEGRITY  
COLLABORATION  
INCLUSIVITY  
INNOVATION



**COLLEGE OF SCIENCE**  
**Strategic Plan 2025**



# College Team Updates

**Teaching Team** (Beardsley, Perez, Ricossa, George-Williams, Sadaghiani)

- “*Things I Tried*” presentations at CEMaST Motivating Learners lunches

**Career Readiness Team** (Jellyman, Chen, Killick, Aminian, Small, Jordan)

- Surveyed how departments connected with alumni/industry
- CS and PHY use advisory boards to better prepare their majors for careers

**Sustainable Operations Team** (Ear, Ji, Osborn, Burrows)

- Developed info sheet for faculty funding including federal, CSU/CPP, and philanthropic support (Bronco Launchpad).

# Welcome back!

