

State of the College

Campus and
Board of Trustees
Presentation
1.25.2024



Connections



Welcome New Staff

Ronaldo Alvarez Sr

Mail and Custodial Services

Marlena Anglin

Upward Bound

Kevin Arifin

Office of Admission and Financial Aid

Leticia Calderon

Office of F&M, Grounds, Custodial, Mail and Safety Services

Vanessa Chiu

Alumni and Parent Relations

Edwin E. Claros Alvarez

Dining Services

Veronica Clairmont

Division of Student Affairs

Eric Corona-Oceguera

Department of Physics

Liliana Cortez

Dining Services

Raf Davis

CIS User Support Services

Natalia Duran

Office of Admission and Financial Aid

Josiah Edwards

Mail and Custodial Services

Antonio Godoy

Mail and Custodial Services

Christopher Gonzalez

Grounds

Melvin Hodanu

Department of Biology

Vanessa Jacinto

Dining Services

Naina Kaimal

Department of Engineering

Cynthia Martinez

Office of the President

Lilah Mavis

Dining Services

Jordan Mendez

Dining Services

David Monroy

Office of F&M, Mech. and Plant Ops.

Gustavo Navarro

Dining Services

Albert Palafox

Mail and Custodial Services

Gus Pool

Grounds

Sabrina Ramirez

Alumni and Parent Relations

Annette Ramos

Stewardship and Events

Harley Rangel

Advancement Services

Nidia Rivera

Office of Human Resources

Liz Santiago

Mail and Custodial Services

Analís Sierra

Office of Development

Jacob Staimpel

Department of Engineering

Muneeza Tahir

Communications and Marketing

Robin Thompson

Office of Financial Aid

Zach Valdez

Office of Admission and Financial Aid

Grisel Vargas

Dining Services

Raymond Yanez

Mail and Custodial Services

Jesus Zaragoza

Grounds

Welcome New Faculty

Sophia Bahena

Engineering

Sarah Kavassalis

Hixon-Chemistry

Lynn Kirabo

Hixon-Computer Science

Dede Long

Economics; Humanities, Social Sciences,
and the Arts

David Nembhard

Engineering

Arthi Padmanabhan

Computer Science

Ethan Ritz

Engineering

Calden Wloka

Computer Science

Bilin Zhuang

Chemistry



Congratulations

Student Award Highlights



IPS and CS-math double major **Ryan O'Hara '24** and physics major **Lucien Tsai '24** each received an Astronaut Scholarship.



Joint chem-bio major **Sydney Porto '24** is a Goldwater Scholar.



Math major **Danny Vargas '25** was awarded the Mathematical Association of America's Merten Hasse Prize honoring a noteworthy expository paper appearing in an association publication.

Staff Award Highlights



The Communications and Marketing team won PRSA Inland Empire Polaris Awards for the comic book-inspired Office of Admission viewbook and for the Office of Annual Giving Pi Day campaign (2023).



Miguel Ruvalcaba, senior director for dining services, is the 2023 Henry T. Mudd Prize recipient.



Daniel Guerra, laboratory and stockroom manager, received the Mary G. Binder Prize in 2023.



Makerspace manager **Kim Neal** and building attendant **Larry Vasquez** received Outstanding Staff Member awards in 2023.

Keep an eye out for opportunities to nominate staff for awards in spring 2024.

Faculty Award Highlights



Art Benjamin was inducted into the American Backgammon Hall of Fame in June 2022. The organization recognizes individuals who have achieved extraordinary playing results and/or have made extraordinary contributions to the game of backgammon in the United States.



Susan Martonosi received the 2023 Award for the Advancement of Women in Operations Research and the Management Sciences by the Institute for Operations Research and the Management Sciences (INFORMS).



Talithia Williams was awarded the Joint Policy Board for Mathematics Communication Award. The award is given annually to reward and encourage communicators who, on a sustained basis, bring mathematical ideas and information to non-mathematical audiences.

Faculty Award Highlights



Josh Brake received an NSF CAREER award for “Next-generation Rhizosphere Monitoring – Non-invasive Plant Phenotyping and Health Monitoring Using the Light-piping Properties of Plant Stems.” He also received NSF funding for “Wavefront shaping through flexible multicore fiber bundles for coherent light focusing and imaging in neurophotonics.”



Steven Santana '06 received a seed grant from the Social Science Research Council’s Sloan Scholar Mentoring Network to fund research on printing biomaterials for tissue-engineering applications. He also received NSF funding for a project aimed at enhancing the understanding of cell communication through extracellular vesicles.



Bilin Zhuang received an NSF CAREER award for “Developing a Hybrid Adaptive Particle-Field Simulation Method for Solvation of Charged Macromolecules and a New Computational-Chemistry Course for Lower-Division Undergraduates.”

Alumni Award Highlights



Math alum **Joshua Greene '02** received the 2023 Levi Conant Prize from the American Mathematical Society, which recognizes the best expository paper published in either the *Notices of the AMS* or the *Bulletin of the AMS* in the preceding five years.



Math majors **Claire Chang '23**, MCB major **Abel Saperstein '21**, **Kausik Das '23**, **Marcelo Almoro Rios '20** and math-physics major **Anna Soper '22** all received NSF Graduate Research Fellowships in 2023.



Engineering major **Sidney Taylor '23** received the Thomas J. Watson Fellowship her the project “How Art Builds Community, How Communities Build Art.”

Key Facts and Figures



7,934

living alumni



915

students



122

faculty



257

staff



11

majors



7

academic
departments



3

interdisciplinary
centers



23

buildings occupied



61

student clubs
and organizations



\$76.6M

FY24 operating budget



\$8.2M

FY24 fundraising
through December 31, 2023



\$10.1M

current NSF awards

Fall 2023 Incoming Class

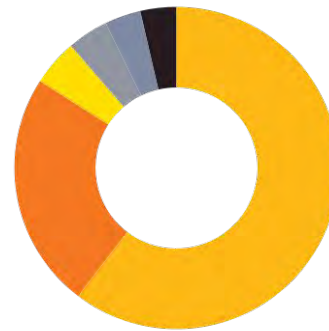
226	Students enrolled
4,794	Applications
13%	Admit rate
50%	Female
34.5%	Domestic URM
13.7%	International
27	States represented
13	Countries represented

Student Retention, Graduation and Placement

Students entering Fall 2022
Retention to Sophomore Year
97%

Students entering Fall 2017
4-year graduation rate **76%**
6-year graduation rate **94%**

Class of 2023



- 60.3% Employment
- 23.7% Grad School
- 4.6% Don't know
- 4.1% Internship
- 3.6% Gap year
- 3.6% Other

Median Salary \$112,500
Median Bonus \$15,000

PhD	63%
M.S./PhD	17.4%
M.A./M.S	13%
M.D./PhD	2.2%

Where Our Students Go*

Top States for Industry

California	16%
Texas	3%
Illinois	2%

Top Companies



Top Graduate Schools

UC Berkeley
Carnegie Mellon University
Cornell University
MIT

Purdue University
Stanford University
UC San Diego
University of Washington

Faculty Searches

**7 searches
completed
Fall 2023**

Jonathan Chang, Assistant Professor of Computer Science
Jessica Guo, Assistant Professor of Climate and Biology
Colm Healy, Assistant Professor of Chemistry
Maduka Ogba, Assistant Professor of Chemistry
Vidushi Ojha, Assistant Professor of Computer Science
Tim Randolph, Assistant Professor of Computer Science
Sarah Stefanos, Assistant Professor of Sociology

**4 searches
underway
Spring 2024**

Engineering: biomedical
Engineering: robotics
Hixon-Math: climate-math
Humanities, Social Sciences, and the Arts: architecture

23 new Clinic partners

Save the Date
Projects Day
April 30, 2024

Clinic Program

Climate/Engineering

Apsis Solutions Ltd.
Spark Climate Solutions/Cowbell Labs

Climate/Math

Union of Concerned Scientists, Inc.

Computer Science

Auburn/USDA
ConcentricLife
Inspiren
Monterey Bay Aquarium Research Institute
Wayfair LLC
Webflow, Inc.

Computer Science/Math

Periwinkle Trading LLC

Math

Hawai'i Keiki Museum

Engineering

Applied Materials, Inc
Argonne National Laboratory
Auburn/USDA
Helion Energy, Inc.
Idaho National Laboratory
LS Power
NorthStar Medical Radioisotopes LLC
Origin Materials
Systems & Technology Research
Trilobio, Inc.

Global/Computer Science

Musizi University

Global/Engineering

DTU Wind and Energy Systems



Good News and Notable Updates

What People Say

Forbes

Michael T. Nietzel

Aug 28, 2023

Washington Monthly has picked Harvey Mudd College as the best liberal arts college in its *2023 College Guide*.

2023 Dr. Bruce J. Nelson '74 Distinguished Speaker Series

“Being Human in the Age of AI”



“You can think of AI as a collection of people working together in a new way, just like you can any economy. And so, if you do that ...

you have clear ideas of how to integrate it into human life and into the human economy and have better philosophies for how it fits into human life.”

Jaron Lanier from his Sept. 19 talk “There is no AI.” He is a computer scientist, composer, artist, author and a pioneer in virtual reality (a term he coined). He is the “octopus” (Office of the Chief Technology Officer Prime Unifying Scientist) at Microsoft.



“If inequity is woven into the very fabric of our society ... that can feel overwhelming. It’s everywhere, but that also means that each

twist, coil and code is a chance for us to weave new patterns, practices and politics. The vastness of the problems that we are up against will be their undoing once we accept that we are pattern makers, that we don’t just have to accept the paradigms and patterns of old.”

Ruha Benjamin from her Oct. 19 talk “From Artificial Intelligence to Collective Wisdom.” She is the Alexander Stewart 1886 Professor of African American Studies at Princeton University, founding director of the Ida B. Wells Just Data Lab and an award-winning author.



“Often envisioned outside the realm of what is technologically possible within artificial intelligence, care is an essential

aspect of human information and resource-sharing networks that aid our survival. Recognition of this idea raises questions such as how can we infuse – cooperatively, adversarially or fugitively – ecosystems we depend on as well as the people and institutions currently holding power with ways of being, values, ethics and knowledges they are blind to or don’t understand?”

Stephanie Dinkins from her Nov. 6 talk abstract “On Love & Data.” She is a transmedia artist who creates projects that foster dialog about race, gender, aging and our future histories.

New Staff Leaders



**Cynthia "Cindy"
Martinez**
Interim Vice President
for Student Affairs/Dean
of Students



Veronica Clairmont
Associate Dean for
Institutional Diversity



Nita Kansara
Assistant Dean for
International Students
and Scholars



Katrina Salazar
Assistant Dean for
Accessible Education



Stephanie Graham
Acting Chief
Communications Officer
and President, Public
Relations Society of
America, Inland Empire
Chapter

New Faculty Leaders



Darryl Wright

Chair of the Department of Humanities, Social Sciences, and the Arts



Darryl Yong '96

Core Curriculum Director and Associate Dean for Special Projects

Core Impact Course

- The second offering of Core 79 to all students is in progress (spring 2024) and being taught by seven professors.
- This version of the impact course leverages knowledge and skills developed in the Core to understand the roots and possible remedies for climate change from a variety of intersecting perspectives.



Prof. Steve
Adolf



Prof. Erika
Dyson



Prof. Vivien
Hamilton



Prof. Lelia
Hawkins



Prof. Rachel
Mayeri



Prof. Julie
Medero



Prof. Darryl
Yong



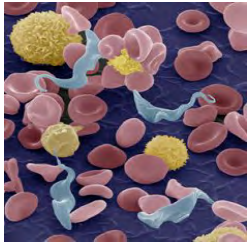
The 2018 Camp Fire currently stands as the deadliest and most destructive wildfire in California's history. The fire started because of a faulty electric transmission line on Nov 8, 2018, the same day this photo from a NASA satellite was taken. It burned an area of over 154,000 acres; mostly destroyed four towns—Paradise, Concow, Magalia and Butte Creek Canyon; and killed 85 people.

Chemistry-climate major approved

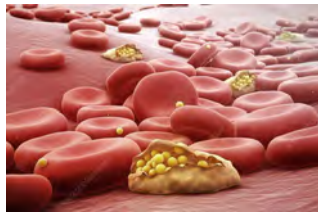
- The Hixon Center for Climate and the Environment and the Department of Chemistry partnered to develop a joint major in chemistry and climate.
- The major was approved at the 11.7.2023 faculty meeting.
- Students may be able to apply for the major beginning in Fall 2024.



Slowing the spread of Sleeping Sickness–Gene regulatory mechanisms in the African trypanosome



African trypanosomes cause the fatal disease sleeping sickness

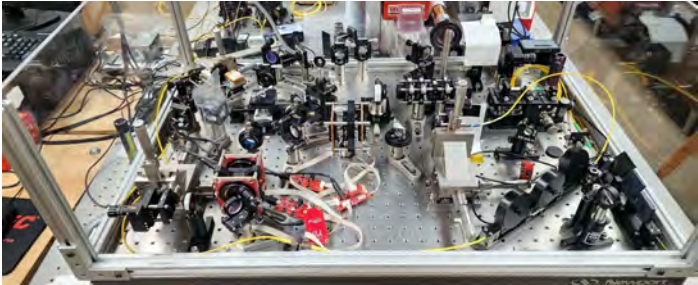


This research has broader implications, as similar proteins in parasites causing malaria are being targeted

Prof. Danae Schulz



Quantum Entanglement– Using Astronomy to Improve Tests of Quantum Mechanics



Build a source of entangled photons at Mudd



(left) Transmit, receive & measure the photons (“quantum communication”)

(right) Combine with light from extremely distant galaxies to test “quantum erasure”

Prof. Jason Gallicchio



Leading the Claremont Colleges



Inauguration of the 11th president of Scripps College Amy Marcus-Newhall on September 8, 2023

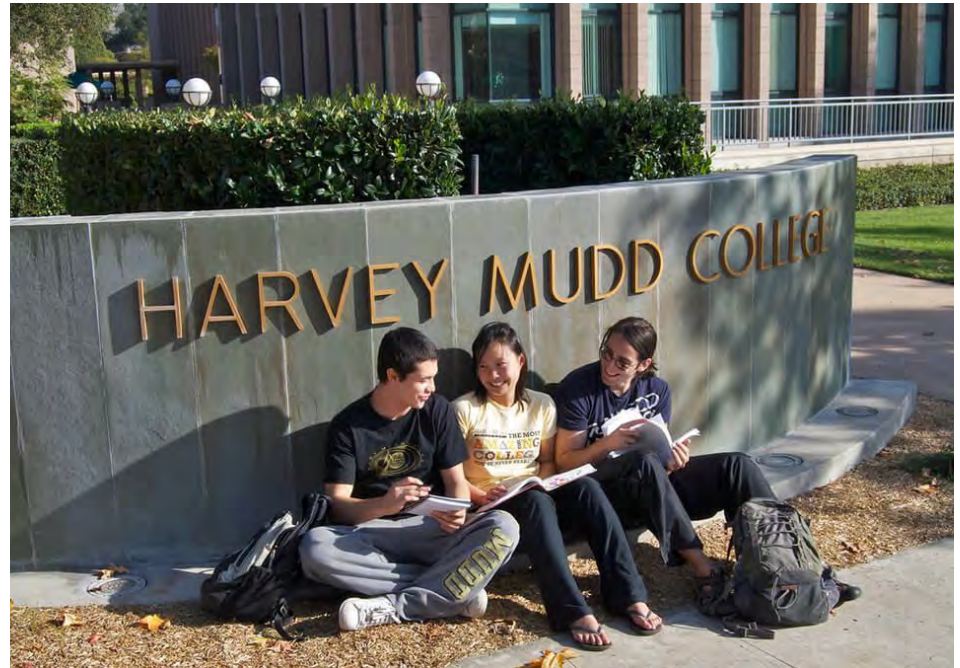


Inauguration of the 7th president of Pitzer College Strom C. Thacker on October 20, 2023

Looking Ahead

Task Force on College Affordability

This task force will be led by **Thyra Briggs**, VP for admissions and financial aid. Its members will include **Bruce DePriester '74**, trustee; **Andrew Dorantes**, VP/CFO/COO; **Albert Lee**, trustee; **Mar Hershenson P'24**, trustee; **Kim Stafford**, AVP for development; and **Darryl Yong '96**, professor of mathematics. It will present its progress at the May 2024 and September 2024 board meetings, with a final report anticipated in November 2024.



Strategic Planning

Strengths, **O**pportunities, **A**spirations, and expected **R**esults
(SOAR) analysis

Strategic Planning Steering Committee

Imagining Harvey Mudd Working Group

Big ideas with the potential for transforming the College

Academic Vision Working Group

Curriculum and programs to meet the needs and interests of future students

Student Experience Working Group

Improve the overall student experience with a particular focus on co-curricular activities

Campaign Planning

Readiness Essentials



Well-defined strategic priorities



Aspirational case for support



Clear key messages



Respected College leadership



Strong volunteers



Enough prospective donors



Adequate budget resources



Experienced and prepared staff





Announcements

Mark Your Calendar

- **January 31 – Voices of Engagement**
- **February 2–3 – Family Weekend**
- **February 29 & March 1 – Inauguration Celebration**
- **April 3 – Moody Lecture**
- **April 24 - Strategic Planning Sessions**
- **April 26–28 – Alumni Weekend**
- **April 29 & May 1 – Presentation Days**
- **April 30 – Projects Day**
- **May 12 – Commencement 2024**

Propelling Innovation

Inauguration festivities, Feb. 29–March 1 will be a time of celebration and inspiration. Join us as we inaugurate Harriet B. Nembhard as the sixth president of Harvey Mudd College and honor the exceptional contributions of the College and its community members. This event is a special opportunity to unite, delving into the possibilities that will propel the College forward in an ever-evolving world.

hmc.edu/inauguration



Register Here³⁵

HARVEY MUDD COLLEGE