

WONDER MAKES US BUILD A CHANGING WORLD

COLLEGE OF ARCHITECTURE, PLANNING AND LANDSCAPE ARCHITECTURE
2021 ANNUAL REPORT



At the gate of the garden some stand and look within, but do not care to enter. Others step inside behold



Photo above and on front cover by Simmons Buntin.

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DEAN'S WELCOME



AT THE UNIVERSITY OF ARIZONA,

wonder makes us. It drives us to question, explore, push limits and overcome boundaries to discover our true potential. At the College of Architecture, Planning and Landscape Architecture, *wonder makes us build a changing world.*

Our world is indeed changing, and the past year has underscored that in myriad ways: how we gather as a community, the manner in which we work and learn, how we recreate and shop, where we live and how we see our way forward to flourish as individuals and a society. Central to all of this change is the built environment, and we in CAPLA recognize and will meet the challenges and opportunities that lie ahead.

Our preparation for this change is multifaceted and builds on the college's considerable accomplishments in research, teaching and service. This *Annual Report* provides the opportunity to step back for a moment to consider what we have prioritized; what our students, faculty and staff have accomplished in spite of difficult circumstances; where we find ourselves from a sustainability perspective; how we connect with the broader community; and what we are most proud of over the last year.

Ensuring equity, diversity and inclusion remains central to our mission. The website at capla.arizona.edu/edi continues to provide our evolving objectives and goals, stories, demographics and profiles that demonstrate our commitment and accountability to equity, diversity and inclusion as core components of our work.

This year we have advanced several academic programs, including the new Minor in Real Estate Development, the reconfigured Heritage Conservation Graduate Certificate now offered fully online and Bachelor of Architecture curriculum enhancements that increase opportunities for students in research and specialized areas of architectural practice.

Thanks to these efforts and more, CAPLA has seen a marked increase in enrollment this year, despite the

ongoing pandemic, and I view this as a reflection of the next generation of designers, planners and sustainability specialists recognizing the potential and exciting relevance of these fields. Like us, *wonder* makes our students eager to build a changing world.

Wonder likewise drives our faculty, who have tackled the challenges and recognized the possibilities of educating our students in a pandemic. From teaching online and face-to-face (or rather, mask-to-mask), often simultaneously, to innovating in how they're leading studios and conducting and disseminating research, our faculty make a profound difference in shaping the built environment.

Finally, this year we formalized plans to reinvigorate the Drachman Institute, which is committed to building interdisciplinary research capacity while enhancing the student experience and supporting community decision-making in the built environment.

It continues to be my honor and privilege to witness the accomplishments of this great community of students, faculty, staff, alumni and donors. You bring enthusiasm, passion, dedication and imagination to your work and learning every day.

Thank you for being a part of our community—and thank you for your *wonder*.

Yours,

Nancy Pollock-Ellwand
Dean

“**Like us, *wonder* makes our students eager to build a changing world.**”

Photo (left): *Wonder* makes us prepared: a Bachelor of Architecture student presents during Fall 2021 final reviews.

CAPLA

BY THE NUMBERS

Rankings

#2 Top Online Master's Degree in Real Estate
Best Value Schools, 2021

#8 Public (#12 Overall) **Most Hired From Architecture School**
(B Arch, M Arch and MS Arch; Group 3: 50-69 Graduates)
DesignIntelligence, 2019-2021

#8 Top Urban Planning Program without a PhD
Planetizen, 2020-2021

#9 Public (#23 Overall) **Most Admired School, Architecture Undergraduate Program**
DesignIntelligence, 2019-2021

#11 Best Value Sustainability Bachelor's Degree
Value Colleges, 2022

#13 Public (#14 Overall) **Most Hired-From Landscape Architecture School**
(MLA; Group 3: Less than 20 Graduates)
DesignIntelligence, 2019-2021

- 8 DEGREE PROGRAMS**
- Bachelor of Architecture
 - Bachelor of Landscape Architecture
 - Bachelor of Science in Sustainable Built Environments
 - Master of Architecture
 - Master of Science in Architecture
 - Master of Landscape Architecture
 - Master of Real Estate Development
 - Master of Science in Urban Planning

- 3 FULLY ONLINE PROGRAMS**
- Bachelor of Science in Sustainable Built Environments
 - Master of Real Estate Development
 - Graduate Certificate in Heritage Conservation

- 4 GRADUATE CERTIFICATES**
- Heritage Conservation
 - Real Estate Development Analysis
 - Real Estate Development Finance
 - Real Estate Development Practice

- 4 UNDERGRADUATE MINORS**
- Architectural History and Theory
 - Landscape Architecture
 - Real Estate Development
 - Sustainable Built Environments

- 4 STEM-DESIGNATED PROGRAMS**
- Bachelor of Architecture
 - Master of Architecture
 - Master of Science in Architecture
 - Master of Landscape Architecture

- 4 ASSOCIATION BOARD-ACCREDITED PROGRAMS**
- Bachelor of Architecture
 - Master of Architecture
 - Master of Landscape Architecture
 - Master of Science in Urban Planning

870
TOTAL CAPLA
STUDENTS

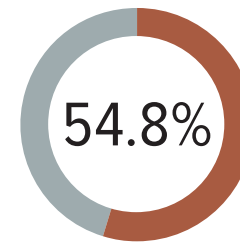
As of Fall 2021 census date

703
UNDERGRADUATE
STUDENTS

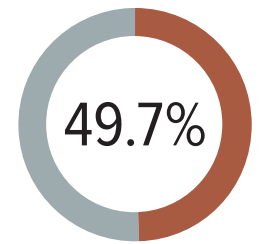
456 B Arch | 48 BLA | 199 BS SBE

167
GRADUATE
STUDENTS

21 M Arch | 9 MS Arch | 40 MLA
71 MRED | 26 MS Urban Planning



STUDENTS OF COLOR
Including international students



FEMALE STUDENTS

237

GIFTS FROM CAPLA DONORS
totaling \$1.35 million, which includes documented planned gifts and bequests

\$5.45M

CAPLA TOTAL ENDOWMENT

25

COUNTRIES

Represented in CAPLA Student Body

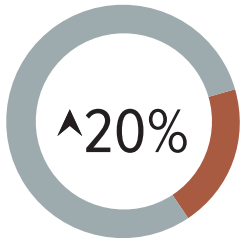
47

STATES

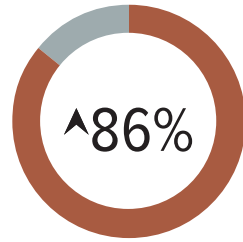
Represented in the CAPLA Student Body

122

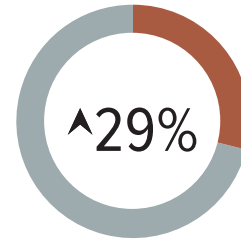
CAPLA STUDENTS RECEIVING SCHOLARSHIPS
62 scholarships totaling \$175,530



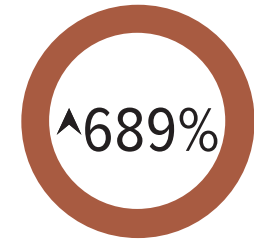
B ARCH INCREASE IN ENROLLMENT
Fall 2017-2021 (380 to 456)



BS SBE INCREASE IN ENROLLMENT
Fall 2017-2021 (107 to 199)



MLA INCREASE IN ENROLLMENT
Fall 2017-2021 (31 to 40)



MRED INCREASE IN ENROLLMENT
Fall 2017-2021 (9 to 71)

30

STUDIO COURSES
•20 School of Architecture
•10 School of Landscape Architecture and Planning

72

CAPLA FACULTY MEMBERS as of Fall 2021
•47 School of Architecture
•25 School of Landscape Architecture and Planning

109

DEGREES GRANTED
in Fall 2020, Winter 2021,
Spring 2021 and Summer 2021
38 B Arch | 23 BS SBE | 8 M Arch
7 MS Arch | 8 MLA | 17 MRED
8 MS Urban Planning

4,317

CAPLA ALUMNI
as of Summer 2021

131

COMMUNITY AND INDUSTRY PARTNERS
professional organizations, educational institutions, firms, community organizations and government/public agencies

9,000

SQUARE FEET OF MODEL/MATERIALS LABS

9

STUDENT ORGANIZATIONS

28

CAPLA STAFF MEMBERS AND ADMINISTRATORS
as of Fall 2021

\$845K

RESEARCH EXPENDITURES
for sponsored projects, state funding and UArizona initiatives

34

COMPANIES AND ORGANIZATIONS
participating in CAPLA 2021 Job Interview Fair

WONDER MAKES US BUILD FOR THE FUTURE.



INVESTING IN CAPLA

Though it has been another challenging year, carrying with it many unknowns, what is certain is that CAPLA continued to serve our students and the community with creative and boundless efforts.

We extend our heartfelt appreciation to our donors and alumni who continue to invest in the work that we do, whether teaching, research or service. Your support has a direct impact on our ability to teach the next generation of professionals and innovators who will plan, develop, design and build more sustainable, equitable and healthy communities. It is an exciting time for these students, and a source of hope when contemplating the future of our planet. Thank you for your unwavering efforts in support of our students.

If you would like to learn about how to contribute to our scholarship fund, studio prizes, externships, faculty support and our campaign for renovations in the CAPLA West Building (see back cover), please contact me at angiesmith@arizona.edu or **520-621-2608**. I would be delighted to discuss the many ways you can create additional impact with your charitable giving.

A handwritten signature in black ink that reads "Angie K. Smith".

Angie K. Smith
Director of Development

For Fiscal Year 2021

July 1, 2020 – June 30, 2021

Development Revenue

\$1,351,711

Actual, planned and realized gifts.

Total Gifts

237

Student Technology Initiative

\$45,443 Raised

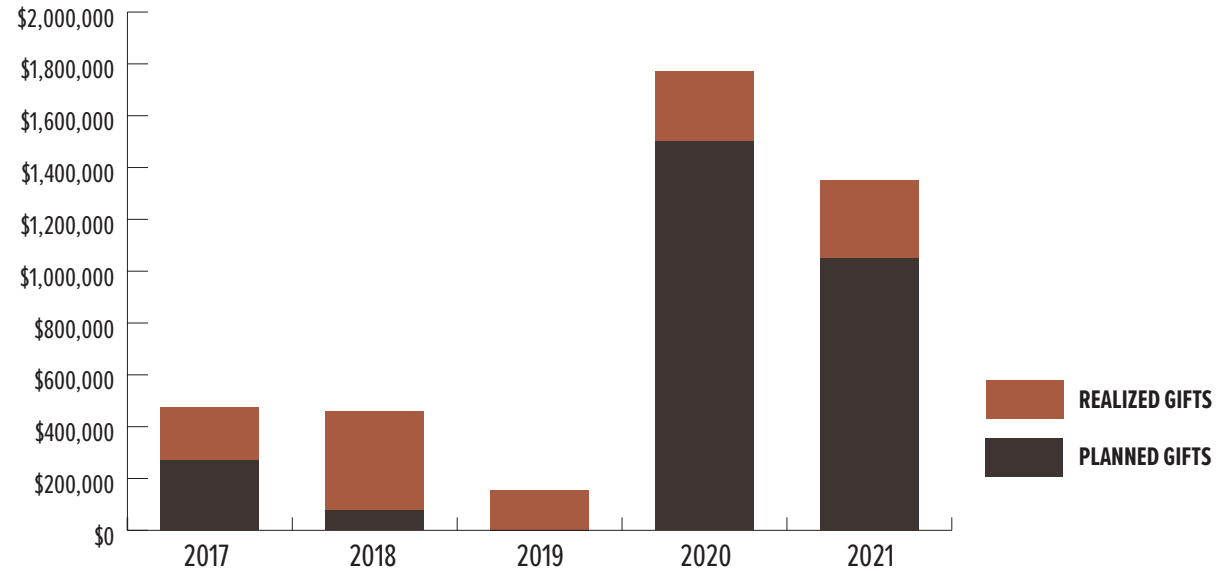
CAPLA Endowment

CAPLA	\$1,450,634
Drachman Institute	\$1,555,220
School of Architecture	\$1,816,414
Landscape Architecture	\$599,303
Urban Planning	\$23,657
TOTAL	\$ 5,445,228

Note:

1. Endowment for School of Landscape Architecture and Planning is maintained separately for Landscape Architecture and Urban Planning programs.

CAPLA Development Revenue and Planned Gifts 2017-2021



FISCAL YEAR	PLANNED GIFTS	REALIZED GIFTS	TOTAL ACTUAL GIFTS
2017	\$271,000	\$204,946	\$475,946
2018	\$76,000	\$383,979	\$459,979
2019	\$0	\$153,547	\$153,547
2020	\$1,500,000	\$273,135	\$1,773,135
2021	\$1,050,000	\$301,711	\$1,351,711

Notes:

1. Planned gifts are gifts made by donors to the university through wills, beneficiary designations, trusts and life income agreements.
2. Realized gifts are gifts made by donors to the university that are cash and are deposited into university accounts.

OUR STUDENT SUCCESS IS YOUR SUCCESS

As trusted supporters and champions, you help us accomplish great things at CAPLA—
and help our students accomplish even more once they graduate.

CONTINUE OUR SUCCESS AT [CAPLA.ARIZONA.EDU/GIVE](https://capla.arizona.edu/give).

INNOVATIVE RESEARCH, INSPIRING TEACHING

Your generous gift in support of faculty in the School of Architecture and School of Landscape Architecture and Planning ensures their research and teaching help create a sustainable future.

SUPPORT CAPLA FACULTY AT [CAPLA.ARIZONA.EDU/GIVE](https://capla.arizona.edu/give)



SUPPORTING CAPLA'S STUDENTS

CAPLA supports students financially in several ways, led by scholarships funded by donors. Additional support includes academic program fee/differential tuition set-asides, graduate student partial tuition waivers and graduate assistantship tuition remission.

AID TYPE	FISCAL YEAR			
	2019	2020	2021	
SCHOLARSHIPS	172,488	136,095	164,285	(2)
PROGRAM FEE/DIFFERENTIAL TUITION SET-ASIDES	117,534	120,026	137,843	
PARTIAL TUITION WAIVERS (GRAD STUDENT ONLY)	235,876	411,860	171,665	
GAship TUITION REMISSION (GRAD STUDENT ONLY)	226,012	256,558	208,656	(3)
TOTAL	751,910	924,538	682,450	

Notes:

1. The above activity is funded by CAPLA non-sponsored accounts (i.e., University of Arizona Foundation).
2. The Scholarships amounts above are primarily funded from CAPLA University of Arizona Foundation accounts. \$175,530 in scholarships was awarded in FY 21 while \$164,285 was disbursed.
3. GAship tuition remission is a benefit offered to a CAPLA graduate student when being hired as a graduate assistant (GA) to support the college. The amounts shown cover 50% or 100% of the resident tuition each semester, depending on the GA FTE rate.
4. An additional tuition benefit with a GAship (not shown above) is that the student's residency status changes from Non-Resident to Resident, and reduces the semester tuition rate:

SEMESTER TUITION RATE TYPE	FISCAL YEAR			
	2019	2020	2021	
NON-RESIDENT	16,033	16,033	16,033	*
RESIDENT	5,858	5,969	5,969	*
TUITION RATE SAVINGS (\$)	10,175	10,064	10,064	
TUITION RATE SAVINGS (%)	63.5%	62.8%	62.8%	

* The above tuition rates are based on a graduate student being enrolled full-time each semester (9+ units).

Scholarships

In FY 2021, 122 students received \$175,530 in funding from 62 distinct scholarships.

We are excited to report the endowment of four new CAPLA scholarships in 2021:

Judith Chafee Scholarship

To support a full-time undergraduate student in the School of Architecture entering the third, fourth or fifth year of the Bachelor of Architecture program who demonstrates superior achievement in studio work and strong academic achievement in the architectural curriculum. Established by an anonymous donor in honor of the work of Judith Chafee.

A.C. Nelson PhD, FaCes, FAICP Fellowship

To support incoming or current graduate students enrolled full-time in the Master of Science in Urban Planning or Master of Real Estate Development who demonstrate superior academic promise and professional commitment to their chosen field(s) of study. Established by A.C. Nelson.

Edward H. "Ned" Nelson Scholarship

To support students at CAPLA. Established through the Estate of Ned and Miriam Nelson, in honor of Ned who practiced architecture in Tucson for many years.

Fred Pace Scholarship

To support students enrolled in CAPLA, with preference to full-time students in third, fourth or fifth year of the Bachelor of Architecture program who serve as student workers in the Fred R. and Olga K. Pace Materials Labs and who demonstrate integrity, honesty and respect in their work with students in the lab. Established through the Pace Family Trust in honor of Fred Pace and his contributions to the Tucson community.

Photo (left): Wonder makes us collaborate: An interdisciplinary team of CAPLA students works with community members to analyze urban greenways.

UPDATE

SCHOOL OF ARCHITECTURE



In spite of the pandemic, the 2020-2021 academic year was busy and productive in the School of Architecture.

Continued Adaptation: Among the tools gained during our remote teaching, faculty members have permanently adopted new digital technologies such as Conceptboard—an online site where students post their work for crits and juries. The Materials Labs, too, has changed the way it operates. What used to be a first-come, first-served operation is now 100% prescheduled so the right lessons and support are available every time a student shows up.

B Arch Curriculum Changes: As part of a years-long optimization of the Bachelor of Architecture degree, the first cohort of students entered the new final three-semester phase (or P3). In this curriculum, grassroots collections of faculty propose topic areas in applied research and design to which students join. The initial P3 Groups to offer new courses and studios were *Critical Practice*, *Material Matters*, *(Meta)Physics of Light* and *Urban Agency*.

Studio Sponsorship: For three years, AGM/Ascension Wheelchair Lifts has funded a competition to promote universal design in a third-year studio.

Award-Winning Students and Faculty: As a result of our comprehensive ARC 401 studio, fourth-year B Arch student **Ana Astiazaran** won the 2021 COTE Top Ten Student's Award for Sustainable Design Excellence, one of ten student projects from over 800 international submissions. For the fourth year running, a student team under the tutelage of assistant professor **Jonathan Bean** placed in the international Solar Decathlon Design Challenge. Taking second place in two categories this year, the group followed the first place and honorable mention of the previous year. Professor Bean, himself, topped off the year by being named a 2021 CUES Distinguished Fellow. The UArizona chapter of the American Institute of Architecture Students was awarded the national AIAS Chapter Award, the highest recognition given to a student

chapter. Fittingly, the chapter's faculty advisor, **Oscar Lopez** Associate AIA, himself won the 2021 National AIA Associates Award. Two of our faculty were given what may be the highest honors available to teachers: awards from their own students. Assistant Professor of Practice **Teresa Rosano** was recognized with the inaugural Anne Graham Rockfellow Memorial Award by the Women in Architecture Society (WIAS) and Associate Professor of Practice **Michael Kothke** was again awarded the Commendation for Teaching by vote of all architecture students.

New Insight on Frank Lloyd Wright: We celebrated the publication of a career-long body of research by Associate Professor of Architectural History **Lisa D. Schrenk**, *The Oak Park Studio of Frank Lloyd Wright*.

New Faculty: Finally, we welcomed a new and highly esteemed colleague: **Eric D. Weber**. Eric founded the UNLV Design+Build Studio and led Team Las Vegas in UNLV's entry to the 2013 Solar Decathlon (2nd overall; 1st among U.S. entrants). In Tucson, Eric immediately joined Professor **Mary Hardin** to design and deliver, with students, five rowhouses for the University of Arizona.

A handwritten signature in black ink, appearing to read 'R Miller'.

Robert Miller
Director, School of Architecture
Professor of Architecture



Primer Hogar, Communal-Living Housing, by Humberto Lopez Villanueva '20 M Arch.

School of Architecture Faculty

FACULTY BREAKDOWN

CAREER TRACK	19
NON-TENURE ELIGIBLE	16
TENURE ELIGIBLE	3
TENURED	9
TOTAL	47

FACULTY BY GENDER

FEMALE	23	48.9%
MALE	24	51.1%

FACULTY BY AGE

25-34	10	21.3%
35-44	12	25.5%
45-54	16	34.0%
55-59	4	8.5%
60-64	3	6.4%
65+	2	4.3%

FACULTY BY RACE/ETHNICITY

ASIAN	2	4.3%
BLACK OR AFRICAN AMERICAN	1	2.1%
HISPANIC OR LATINX	5	10.6%
INTERNATIONAL	3	6.4%
NOT REPORTED	4	8.5%
TWO OR MORE RACES	2	4.3%
WHITE	30	63.8%

SCHOOL OF LANDSCAPE ARCHITECTURE AND PLANNING



Greetings from the School of Landscape Architecture and Planning. What a year it has been! Faculty, staff and students remained flexible and resilient as we continued to work remotely due to the pandemic, discovering creative pedagogical perspectives and learning scenarios. This year we expanded our offerings, focused on recruitment, reviewed and updated strategic plans, refreshed curricula, prepared accreditation reports and advanced equity, diversity and inclusion goals. Some program highlights:

- The Bachelor of Landscape Architecture degree, launched last fall, now has 48 students.
- The Sustainable Built Environments microcampus with UPC in Lima, Peru entered its third year.
- The undergraduate Minor in Real Estate Development launched in Spring 2021 and continues to grow.
- The Graduate Certificate in Heritage Conservation was approved as an Arizona Online program and has been restructured.

As a result of these and other efforts, we dramatically grew enrollments. Compared to pre-pandemic enrollments, our school has grown from 232 students in Fall 2019 to 384 students in Fall 2021, an increase of almost 66%.

Faculty remained productive throughout the pandemic as demonstrated by the number of peer-reviewed publications and more than \$780,000 in research grants during the year. Our interconnected programs in landscape architecture, urban planning, real estate development, sustainable built environments and heritage conservation demonstrate our well-executed ability to collaborate. A few interesting projects that our faculty engaged in during the pandemic include *DASH-SAFE: A Multi-Modal GIS-Based Real-Time COVID Risk Assessment, Management and Navigation Tool*; *Extreme Heat and the COVID-19 Pandemic: Global Heat Health Information Network*; and *Assessing Opportunities for Household Provisioning Post COVID-19*.

Our students remained engaged and active in their various programs. In Spring 2021, MS Urban Planning students worked with the City of Tucson and a local neighborhood association to develop and present a neighborhood plan draft for the Grant-Alvernon community. Students from the SBE and MS Urban Planning programs worked with faculty researchers during the spring semester on a NITC-funded study to collect temperature data and identify heat mitigation strategies at mass COVID-19 vaccination sites. In spite of COVID-19 and social distancing, our MLA and BLA students designed and built a pocket park for the annual Park(ing) Day event in September.

We have been successful in faculty and staff hiring and promotions. Associate Professor **Arlie Adkins** was appointed chair of the MS Urban Planning program while **Kenneth Kokroko** was hired as an assistant professor in landscape architecture. **Laura Jensen** was promoted to the school's senior program coordinator.

As the post-pandemic period begins to slowly emerge, we see a return to campus. Studio courses are meeting in person, faculty and students are gathering in the Underwood Family Sonoran Landscape Laboratory and hallways are full of mask-muffled laughter. We look forward to welcoming new faculty and students into our school in the coming year, and we are thankful for one another as we celebrate our collective accomplishments and look ahead to another productive year.



Lauri Macmillan Johnson

Director, School of Landscape Architecture and Planning
Professor of Landscape Architecture

Photo (right): Wonder makes us innovate: School of Landscape Architecture and Planning Assistant Professor Kirk Dimond advises Master of Landscape Architecture students on a team project.



CAPLA Photo.

School of Landscape Architecture and Planning Faculty

FACULTY BREAKDOWN	
CAREER TRACK	6
NON-TENURE ELIGIBLE	8
TENURE ELIGIBLE	5
TENURED	6
TOTAL	25

FACULTY BY GENDER			
FEMALE	8		32.0%
MALE	17		68.0%

FACULTY BY AGE			
25-34	3		12.0%
35-44	14		56.0%
45-54	1		4.0%
55-59	1		4.0%
60-64	2		8.0%
65+	4		16.0%

FACULTY BY RACE/ETHNICITY			
ASIAN	3		12.0%
BLACK OR AFRICAN AMERICAN	1		4.0%
HISPANIC OR LATINX	2		8.0%
NOT REPORTED	3		12.0%
WHITE	16		64.0%

WONDER MAKES US ASPIRE AND INSPIRE.

NEW FACULTY AND PROMOTIONS

In 2021, CAPLA expanded its faculty with two new tenure-track faculty members, two joint appointments and several lecturers. Combined, they bring a wealth of expertise, innovation and energy to our students and the broader community.

New Professors



Eric D. Weber
Associate Professor of Architecture
School of Architecture

Eric D. Weber joins us from the University of Nevada Las Vegas. At CAPLA, he teaches the design-build studio and Techne. Eric has a dynamic background as an architect, construction-focused researcher and award-winning design-build teacher.

LEARN MORE ABOUT ERIC AT
[CAPLA.ARIZONA.EDU/PROFILES/FACULTY/2021/ERIC-D-WEBER.](https://capla.arizona.edu/profiles/faculty/2021/eric-d-weber)



Kenneth J. Kokroko
Assistant Professor of Landscape Architecture
School of Landscape Architecture and Planning

Kenneth J. Kokroko PLA ASLA, a CAPLA Master of Landscape Architecture alumnus, joins us after serving in professional practice at an interdisciplinary firm in Detroit, Michigan. Kenneth brings a particular passion for community-driven public works and urban design, as well as studio-based education.

LEARN MORE ABOUT KENNETH AT
[CAPLA.ARIZONA.EDU/PROFILES/FACULTY/2021/KENNETH-J-KOKROKO.](https://capla.arizona.edu/profiles/faculty/2021/kenneth-j-kokroko)

New Joint Appointments

Esther Sternberg

Professor of Architecture, Landscape Architecture and Planning (Joint Appointment), Professor of Medicine and Psychology and Inaugural Andrew Weil Chair for Research in Integrative Medicine

Jonathan Jae-an Crisman

Affiliated Assistant Professor of Architecture and Urban Planning and Assistant Professor of Public and Applied Humanities

New Lecturers and Adjunct Lecturers

Dan Sylvester

Lecturer in Architecture

Kenny H. Wong

Lecturer in Sustainable Built Environments

Carrie Eastman

Adjunct Lecturer in Architecture

Brian Farling

Adjunct Lecturer in Architecture

Brad Lang

Adjunct Lecturer in Architecture

Joel D. Mesik

Adjunct Lecturer in Architecture

Morgan Oster

Adjunct Lecturer in Architecture

Katie Roch

Adjunct Lecturer in Architecture

Eric Sterner

Adjunct Lecturer in Architecture

Trevor Watson

Adjunct Lecturer in Architecture

Dulce Arambula

Adjunct Lecturer in Architecture

Jay Habansky

Adjunct Lecturer in Real Estate Development

Roy R. Pachecano

Adjunct Lecturer in Real Estate Development

Erik Schmahl

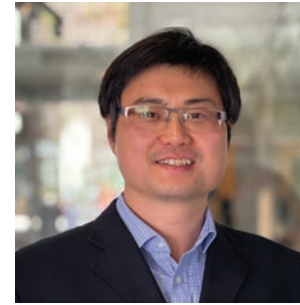
Adjunct Lecturer in Landscape Architecture

Shawn Swisher

Adjunct Lecturer in Architecture

Promotions

Congratulations to the following faculty, who received promotions in 2021:



Bo Yang

Associate Dean for Research and Professor of Landscape Architecture and Urban Planning

In addition to his regular teaching and award-winning research, Bo Yang PhD PLA ASLA AICP served as interim associate dean for research and interim director of the Drachman Institute for most of the year before being named permanent associate dean for research in Summer 2021.

LEARN MORE ABOUT BO AT
[CAPLA.ARIZONA.EDU/FACULTY-STAFF/BO-YANG](https://capla.arizona.edu/faculty-staff/bo-yang).

Nader Chalfoun

Professor Emeritus of Architecture and Environmental Sciences

Congratulations to Nader Chalfoun, who retired from UArizona in 2020 and was appointed as emeritus professor in 2021.

LEARN MORE ABOUT NADER AT
[CAPLA.ARIZONA.EDU/FACULTY-STAFF/NADER-CHALFOUN](https://capla.arizona.edu/faculty-staff/nader-chalfoun).

Oscar Lopez

Senior Lecturer in Architecture

Sandra Bernal

Lecturer

Joseph Iuliano

Lecturer in Sustainable Built Environments

James Brian Marian

Lecturer in Real Estate Development

Travis Mueller

Lecturer in Landscape Architecture

WONDER
MAKES US
EXCEL.

AWARDS AND ACCOLADES

SCHOOL OF ARCHITECTURE FACULTY

Jonathan Bean
2021 CUES Distinguished Fellow
For *Climate Heroes: Transforming
the Built Environment*

Sandra Bernal-Cordova
Increase and Diversify
Education Abroad for U.S.
Students (IDEAS) Grant
With Nadia Alvarez Mexia, Melody
Buckner and Dan Xayaphanh

Christopher Domin
AIA Arizona 2020
Research-Design Award
For *Powerhouse: The Life
and Work of Judith Chafee*
With Kathy McGuire

Altaf Engineer
2020-2021 University of Arizona
Inclusive Leadership Fellowship

Mary Hardin and Drachman
Design-Build Coalition
AIA Southern Arizona
2020 Design Award
For *Stadium Rowhouse #1:
Urban Infill to Stabilize a
Challenged Neighborhood*
AIA Southern Arizona
2020 Distinguished Building
Merit Award

Dan Hoffman
AIA Arizona 2020 Design
Pedagogy Award

Michael Kothke
AIA Southern Arizona 2020
Distinguished Building Award
For *Ventana House*
With Kathy Hancox (HK Associates)
2021 School of Architecture
Commendation for
Teaching Award

Oscar Lopez
AIA Arizona 2020
Presidential Citation
2021 AIA Associates Award

Robert Miller
2020 Arizona Architects Medal

Poster Mirto McDonald
Roy P. Drachman
Award for Excellence
For *University of Arizona Main
Library and Science & Engineering
Library Renovations*
With Miller Hull



Jesús Edmundo Robles Jr

Jesús Edmundo Robles Jr
2021 Jeff Harnar Award for Contemporary Architecture in the Southwest
For *Casa Caldera*
With Cade Hayes

Teresa Rosano
2020-2021 University of Arizona Inclusive Leadership Fellowship
2021 Anne Graham Rockfellow Memorial Award
Presented by UArizona Chapter of Women in Architecture Society

Lisa Schrenk
AIA Arizona 2020 Community Education Award

SCHOOL OF ARCHITECTURE STUDENTS AND CLASS PROJECTS

2021 AIA Henry Adams Certificate of Merit and Medal
Rachael Varin '21 B Arch and **Athena Myers** '21 M Arch

2021 AGM Universal Design Prize
Students:
Jules Cervantes (Honor Award), **Nickolas Witt** (Merit Award), **Hunter Jinbo** (Merit Award), **Jack McCahon** (Innovation Award for Process), **Tiffany Valenzuela** (Innovation Award for Universal Design), **Kaya Orona** (Innovation Award for Sustainability), **David Zuniga** (Innovation Award for Concept) and **Chris Kleha** (Innovation Award for Architectural Narrative)
Faculty advisors:
Eduardo Guerrero, Bill Mackey, Teresa Rosano and **Siri Trumble**

2021 Alpha Rho Chi Medal
Hannah McCormick '21 B Arch

2021 American Institute of Architecture Students Chapter Honor Award
Student organization:
University of Arizona Chapter of AIAS
Students:
Nick Altamura, Alyssa Arnold, Lauren Craig, Hayden Crockett, Sacha Kessler, Ally Kwan, Emily Miller, Lindsay Roland, Brooke Sands, Alex Torres, Rachael Varin
Faculty advisor:
Oscar Lopez



CAPLA Student Wins 2021 COTE Top Ten for Students Award for Sustainable Design Excellence

Fourth-year Bachelor of Architecture student **Ana Astiazaran** has been awarded a prestigious 2021 COTE Top Ten for Students Award by the AIA and ASCA for her project *Undefined Boundaries*. It is one of ten student projects selected from more than 800 international submissions in 2021 to the annual competition, which is open to undergraduate students in North America in their third year or higher of architecture school.

Astiazaran's project places her Collaboration Center for Innovation in Tucson in the context of the U.S./Mexico border and its many cultural, political and environmental parameters—including climate change—“implying how the dynamic spaces can diminish a ‘defined’ boundary,” she says. “The building pursues the goal of diminishing borders, where different aspects like inside/out, near/far, private/public and built/natural blend together to become one.”

The project was completed in ARC 401 Design Studio VI under the guidance of lecturers **Michael Kothke, Laura Carr** and **Darci Hazelbaker**, as well as “design-performance integration” collaborator assistant professor **Jonathan Bean**.

LEARN MORE ABOUT ASTIAZARAN'S PROJECT AT [CAPLA.ARIZONA.EDU/COTE21](https://capla.arizona.edu/cote21).

Images courtesy of Ana Astiazaran '22 B Arch.

Architecture Students Extend Winning Streak in Solar Decathlon Design Challenge

In the U.S. Department of Energy's call for submissions to its Solar Decathlon 2021 Design Challenge, the agency asked if students were passionate about building design. For the fourth year in a row, undergraduate architecture students at CAPLA answered with a resounding yes.

The students' results demonstrate their passion, innovation, dedication, skills and teamwork, says assistant professor **Jonathan Bean**, the faculty advisor and studio instructor for the three CAPLA teams that entered the competition. And while CAPLA's teams were comprised of no more than five fourth-year architecture students, some of the 63 teams representing 58 collegiate institutions from around the world had nearly 60 members, comprised of both architecture and engineering students and multiple faculty advisors.



The *Barrio Oeste* project by **Ana Astiazaran, Noëlle Van Lerberghe, Lydia Roberts** and **Ivette Ruy Sanchez** placed second in the Mixed-Use Multifamily Housing Division. It “rejuvenates the idea of a mixed-use multifamily community,” say the students, while being an integral part of SunBlock, a network that generates carbon-neutral thermal energy and stores it near where it will be used.



The *Camino Verde* project by **Eunbee Kang, Ashlyn Bonner, Tayler Forsberg** and **Matt Scherer**—which placed second in the Urban Single-Family Housing Division—creates a series of accessory dwelling units along reinvigorated alleys with multiple community benefits, ranging from a new supply of affordable and energy-efficient housing, to supplemental income for property owners, to easy access to transit, parks and retail services.

LEARN MORE AND VIEW THE TEAM SUBMISSIONS AT [CAPLA.ARIZONA.EDU/SOLARDECATHLON21](https://capla.arizona.edu/solardecathlon21).

SCHOOL OF ARCHITECTURE STUDENTS AND CLASS PROJECTS *(continued)*

2021 ARCC / King Medal for Excellence
Sara Ghaemi '21 MS Arch

2021 COTE Top Ten for Students Award

Student:
Ana Astiazaran '22 B Arch,
for *Undefined Boundaries*

Faculty advisors:
Michael Kothke, Laura Carr, Darci Hazelbaker and **Jonathan Bean**

2021 Richärd Kennedy Fourth-Year Portfolio Award

Students:
Sam DeBartolo (Honor Award),
Sam Owen (Merit Award),
Estefania Peña (Honorable Mention) and **Vincent Yang** (Honorable Mention)

Faculty advisors:
Elena Cánovas, Teresa Rosano, Jonathan Bean and **Mary Hardin**

Fall 2020 Tech Launch Arizona Student Innovation Challenge Award

Student:
Sara Ghaemi '20 MS Arch, for
Algae Heat-Sink and Air Purifier
Faculty advisor:
Aletheia Ida

U.S. Department of Energy 2021 Solar Decathlon Design Challenge: 2nd Place, Mixed-Use Multifamily Housing Division

Students:
Ana Astiazaran, Noëlle Van Lerberghe, Lydia Roberts and **Ivette Ruy Sanchez**, for *Barrio Oeste*

Faculty advisor:
Jonathan Bean

U.S. Department of Energy 2021 Solar Decathlon Design Challenge: 2nd Place, Urban Single-Family Housing Division

Students:
Eunbee Kang, Ashlyn Bonner, Tayler Forsberg and **Matt Scherer**, for *Camino Verde*

Faculty advisor:
Jonathan Bean

SCHOOL OF LANDSCAPE
ARCHITECTURE AND
PLANNING FACULTY

Bo Yang

2020 American Society of
Landscape Architects
Honor Award, Research

*For Particulate matter mitigation
through urban green infrastructure:
Research on optimization of
block-scale green space*

Adriana Zuniga

2018 Water International
Best Paper Award

*For "Water security and the
pursuit of food, energy and
earth systems resilience"*

With Christopher A. Scott (lead author),
Tamee R. Albrecht, Rafael De Grenade,
Robert G. Varady and Bhuwan Thapa

SCHOOL OF LANDSCAPE
ARCHITECTURE AND
PLANNING STUDENTS
AND CLASS PROJECTS

2020 Elizabeth "Liba"
Wheat Memorial Prize

Students (all '21 MLA):
Ramzy Bejjani and **Paige
Anthony**, for *Hope Rock Park*

Faculty advisor:
Bo Yang

2021 APA Outstanding
Student Award

Wyatt Berger '21 MS Urban Planning

2021 AzASLA Honor Award
Ramzy Bejjani '21 MLA

2021 AzASLA Merit Award
Paige Anthony '21 MLA

2021 AzASLA Student
Collaborative Award of Excellence
Paige Anthony '21 MLA and
Ramzy Bejjani '21 MLA

2021 Landscape Architecture
Foundation Olmsted Award
Paige Anthony '21 MLA

2021 Friends of Planning
Excellence Award
Chrissy Scarpitti '22 MS Urban
Planning (1st Place), **Wyatt
Berger** '21 MS Urban Planning
(2nd Place) and **Elliot Welch** '21
MS Urban Planning (3rd Place)

2021 University of Arizona
Student Showcase 2nd Place,
Sustainability and Environmental
Impact Categories

Student:
Hunter Lohse '22 MLA, for
*Free Water: An Analysis of
Potential Impacts of Large-Scale
Residential Rainwater Harvesting*

Faculty advisor:
Philip Stoker

American Planning Association
Arizona Chapter 2020
Best Graduate Student
Planning Project Award

Students (all '21 MS Urban
Planning): **Warren Bristol**,
Quinton Fitzpatrick, **Ariel Fry**,
Julian Griffee, **David Jellen**,
Samuel Jensen, **Lena Porell**,
Andrew Quarles, **Lindsey
Romaniello** and **Yicheng Xu**,
for *Tucson Displacement Study*

Faculty advisor:
Arlie Adkins

COLLEGE OF
ARCHITECTURE,
PLANNING AND
LANDSCAPE ARCHITECTURE
FACULTY AND STAFF

Laura Jensen
2021 Darryl D. Dobras Award
for Excellence (Staff)

Beth Weinstein
2021 Darryl D. Dobras Award
for Excellence (Faculty)

WONDER MAKES US BUILD STRONGER COMMUNITIES.

THE DRACHMAN INSTITUTE



Through expertise in research and teaching, the Drachman Institute serves and supports Southern Arizona by co-creating solutions and synergistic interactions between our communities and the faculty and students of CAPLA and the University of Arizona.

In 2021, we awarded seed grants to support community-related, COVID-19-focused research and re-entry strategies for local businesses. Six projects were completed or are under way:

RESTRUCT PARKS FOR SUSTAINABLE BUILT ENVIRONMENT.

What are people's perceptions and behaviors of park use during the COVID-19 pandemic? Does this "new norm" alleviate oracerbate park equity disparity? CAPLA lead: **Shujuan Li**, Associate Professor of Landscape Architecture and Urban Planning.

CHAUNCEY RANCH CAMP PLAN FOR PATHWAYS TO LEARNING.

The School of Architecture fifth-year option studio created a master plan for the 660-acre farm and camp located in the mountains of central Arizona. The plan explores eight key activity areas: equine experiences, knowledge nook, east village, guest housing, staff housing, community corral and agricultural areas. CAPLA lead: **Teresa Rosano**, Assistant Professor of Practice in Architecture.

PLAN THE PLAN.

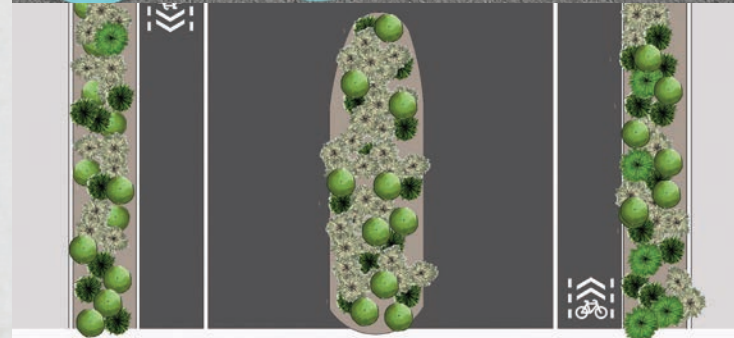
What happens when crowdsource technology is used to foster greater inclusion and social justice in Tucson's neighborhood planning process? Through meaningful community engagement and student mentoring, CAPLA worked with a selection of Tucson neighborhoods to find out. CAPLA lead: **Bo Yang**, Professor of Landscape Architecture and Urban Planning.



Community Garden.
Image by Irene Pineda.



Traffic Calming Chicane // E. Glenn St.
Image by Austin Young.



Traffic Calming // proposed median chicane design.
Image by Heather Schmidt.

TECHNICAL ASSISTANCE FOR THE REOPENING OF CHILDCARE DURING THE ONGOING PANDEMIC.

This project provides communication materials in the form of website and social media videos to guide childcare business owners in the re-opening of their businesses during the pandemic. CAPLA lead: **Nicole Iroz-Elardo**, Assistant Research Professor of Planning.

DRACHMAN INNOVATIVE HOUSING EXAMINATION.

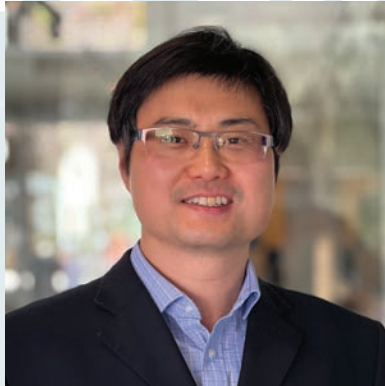
Working with the American Association of Retired Persons (AARP), this project provides senior demographics, development regulations, zoning, development costs, lending options and a survey of recent developments related to senior housing to inform the development of senior living options. CAPLA lead: **Bill Mackey**, Lecturer in Architecture.

COMMUNITY ENGAGEMENT IN A PANDEMIC.

This project offers a vision for outreach in public participation as we continue to socially distance during the pandemic recovery process. It also helps identify and strengthen our understanding of the benefits and limitations of online-based participation methods and their potential role in post-pandemic community outreach and governance. CAPLA lead: **Nicole Iroz-Elardo**, Assistant Research Professor of Planning.

LEARN MORE AT [CAPLA.ARIZONA.EDU/DRACHMAN](https://capla.arizona.edu/drachman).

WONDER MAKES US SOLVE GRAND CHALLENGES.



RESEARCH AND CREATIVE SCHOLARSHIP

CAPLA researchers are leaders in built environment research and scholarship across campus, throughout the region and around the world. Despite the challenges of the pandemic—and in part because of new environmental, design and wellness research opportunities prompted by COVID—our faculty continue to explore the important questions facing a rapidly changing world. In doing so, they succeed in winning awards and other funding to propel their research and creative scholarship while supporting graduate students. CAPLA faculty also disseminate project findings through peer-reviewed outlets and other creative venues. Finally, CAPLA researchers are active in interdisciplinary research teams on campus while also seeking collaboration with other institutions of higher education, government agencies, nonprofit organizations, industry partners and communities large and small.

Sponsored projects are best understood in three metrics:

- Total number of proposals submitted, where CAPLA researchers serve as principal investigators or co-PIs/co-investigators
- Average size of funding requested per proposal
- Number of PIs

In FY 2021, CAPLA's rate of funded proposals increased by 14% compared to the previous year, even as total research expenditures fell due in part to COVID-related delays. In addition, CAPLA researchers submitted to a wide array of federal agencies, including the Department of Energy, National Institutes of Health, National Oceanic and Atmospheric Administration and National Science Foundation, which was rare in previous years. Importantly, junior faculty members are responsible for a significant portion of our scholarly outputs while graduate students across CAPLA programs are receiving more opportunities to conduct research on the built environment.

A handwritten signature in black ink, appearing to read 'Bo Yang', written over a light blue circular graphic element.

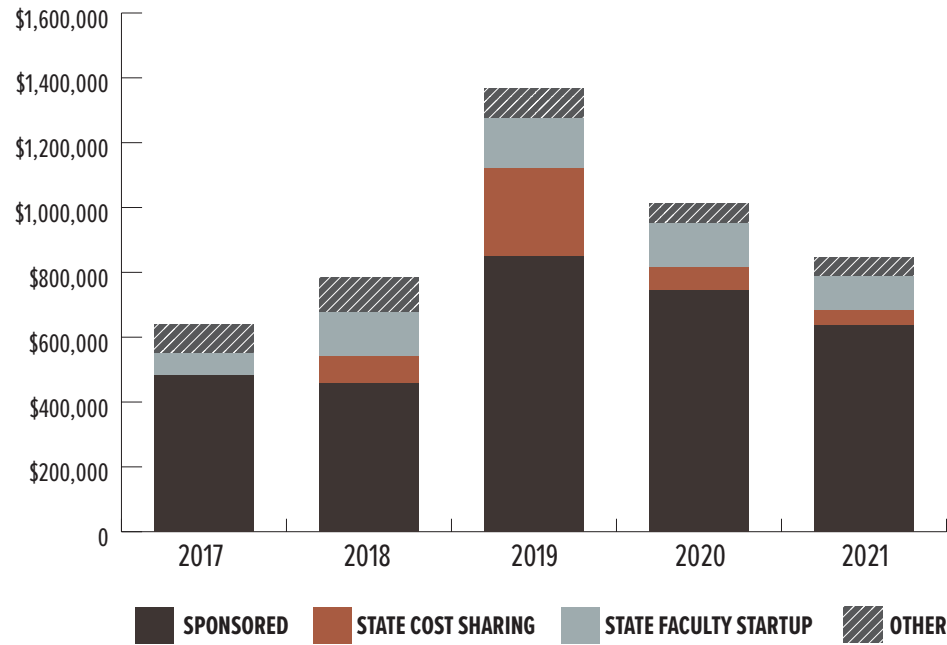
Bo Yang

Associate Dean for Research

Professor of Landscape Architecture and Urban Planning

Research Grants and Awards

Research Expenditures By Funding Source FY 2017-2021



FUNDING SOURCE	FISCAL YEAR				
	2017	2018	2019	2020	2021
SPONSORED					
DIRECT COST	383,721	356,131	655,640	567,566	491,874
INDIRECT COST	97,889	102,532	193,636	175,831	146,564
TOTAL	481,610	458,663	849,276	743,397	638,438
STATE					
COST SHARING		80,725	270,874	71,841	44,951
FACULTY STARTUP	68,669	135,903	154,433	136,213	105,177
TOTAL	68,669	216,628	425,307	208,053	150,128
OTHER					
CAPLA GRASSROOTS INITIATIVES				25,228	17,579
DRACHMAN INSTITUTE SEED GRANTS					13,907
RII FACULTY STARTUP	83,940	100,041	76,311	34,341	7,500
RII RESEARCH INITIATIVES				2,168	17,810
TECH RESEARCH INITIATIVES	3,749	9,450	15,328		
TOTAL	87,688	109,491	91,639	61,736	56,796
GRAND TOTAL	637,967	784,782	1,366,223	1,013,187	845,361

Notes:

1. Cost Sharing activity is state-funded but relates to Sponsored Project accounts.
2. Sponsored activity is based on projects housed under CAPLA as the home department for the funding.
3. The Office of Research, Innovation and Impact (RII) is an institutional unit at the University of Arizona.



Wonder makes us curious: Master of Landscape Architecture students working in environmental monitoring maker space. Photo by Kirk Dimond.

CAPLA-Led Research Helps American Communities Better Plan for Heat Mitigation

Across the United States, heat-related deaths are on the rise, with an average of over 700 deaths and tens of thousands of emergency room visits each year. While many states and local governments are developing strategies to address urban heat, there is little collaboration within communities—and that’s a problem.

To help bridge disparate efforts, a research team led by Assistant Professor of Planning and Sustainable Built Environments **Ladd Keith** is implementing an effort called Plan Integration for Resilience Scorecard for Heat, or PIRSH, that has been awarded a \$150,000 grant from the U.S. National Oceanic and Atmospheric Administration.

The team’s research will build from the Plan Integration for Resilience Scorecard (PIRS) methodology, which was recently adopted by the American Planning Association as a national standard and resource for building local capacity to integrate resilience across planning sectors. However, while the PIRS approach has been applied in the U.S. and internationally for flood planning, it has not yet been applied to heat hazards. Enter PIRSH, a methodology piloted in Tucson, Arizona that will now be expanded to five other geographically distinct U.S. cities: Baltimore, Boston, Fort Lauderdale, Houston and Seattle.

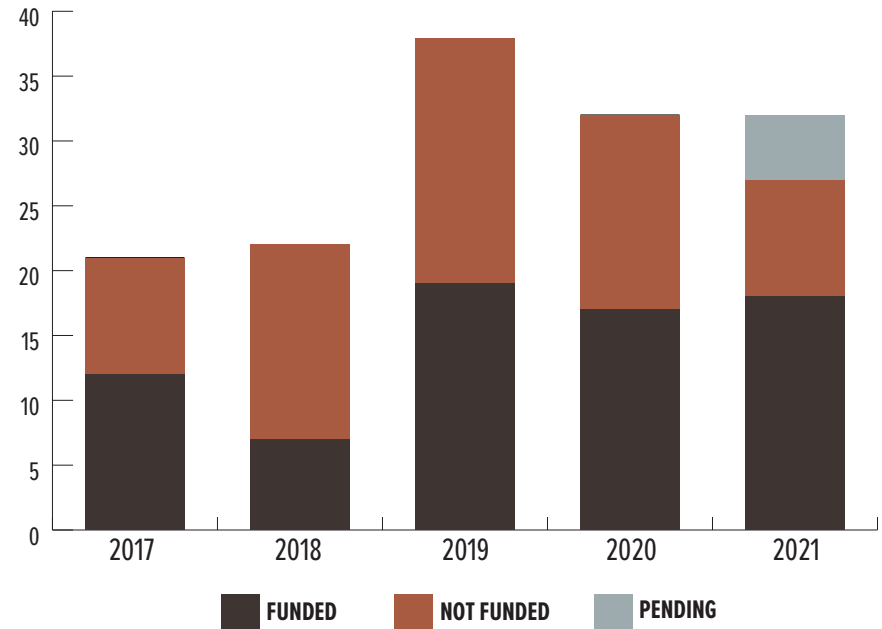
LEARN MORE AT CAPLA.ARIZONA.EDU/PIRSH



Image by Erika Lynn Schmidt.

New Proposal Submissions by Fiscal Year

New Proposal Submissions by Fiscal Year Submitted
Where CAPLA is Lead PI Unit



PROPOSAL STATUS	FISCAL YEAR SUBMITTED				
	2017	2018	2019	2020	2021
Funded	12	7	19	17	18
Not Funded	9	15	19	15	9
Pending	0	0	0	0	5
TOTAL	21	22	38	32	32
Funded Rate (%)	57%	32%	50%	53%	67%

Notes:

1. The above proposals exclude any proposal where CAPLA isn't the lead PI unit but is involved with the proposal.
2. Funded Rate (%) in the above table is based on the following formula:
= Funded / (Funded + Rejected/Withdrawn/Deactivated)

Our Research Areas of Focus

//

AFFORDABLE HOUSING // **ALTERNATIVE BUILDING MATERIALS AND SYSTEMS** // ARCHITECTURAL HISTORY
ARCHITECTURAL PRACTICE // ARCHITECTURAL THEORY // **ARCHITECTURE** // ARID LANDS // BICYCLE PLANNING
BIOMIMETICS // BUILDING CODES // **BUILDING MATERIALS** // BUILDING PERFORMANCE AND SIMULATION
BUILDING SCIENCE AND TECHNOLOGIES // CAMPUS PLANNING // **CLIMATE ANALYSIS AND ACTION PLANNING**
CLIMATE CHANGE // COMMERCIAL REAL ESTATE // COMMUNITY OUTREACH AND ENGAGEMENT // **COMMUNITY PLANNING AND DESIGN**
CONSTRUCTION // CRAFT // **CULTURAL LANDSCAPES** // DAYLIGHTING // DEMOGRAPHICS // **DESIGN-BUILD**
DESIGN COMMUNICATION // **DESIGN METHODOLOGIES** // DESIGN THINKING // DEVELOPMENT PATTERNS
DIGITAL DESIGN AND FABRICATION // **ENERGY CONSERVATION AND DESIGN** // ENVIRONMENTAL JUSTICE
ENVIRONMENTALLY ADAPTIVE SYSTEMS // EQUITY // ETHICS // **EXTREME HEAT** // GARDEN DESIGN
GEOGRAPHICAL INFORMATION SYSTEMS // **GREEN INFRASTRUCTURE** // GREENWAY AND URBAN TRAIL PLANNING AND DESIGN
HEALTH, WELLBEING AND SAFETY // **HERITAGE CONSERVATION** // HISTORIC LANDSCAPES
HISTORIC PRESERVATION AND ADAPTIVE REUSE // **HOUSING AND HOUSING POLICY** // HOMEBUILDING
INDUSTRIAL, INSTITUTIONAL AND MANUFACTURING DESIGN // INFILL DEVELOPMENT // **INFRASTRUCTURE** // INDOOR AIR QUALITY
INTEGRATED DESIGN // INTERIOR DESIGN // LAND DEVELOPMENT // **LANDSCAPE ARCHITECTURE**
LANDSCAPE DESIGN // LANDSCAPE PERFORMANCE // **LIGHTING DESIGN** // MARKET TRANSFORMATION
MIXED-USE DESIGN // MIXED-USE DEVELOPMENT // **NEIGHBORHOOD PLANNING** // NET ZERO DESIGN // **PARKING**
PARKS // **PERFORMATIVE DESIGN** // PHENOMENOLOGY // PLACEMAKING // **PUBLIC HEALTH** // PUBLIC PARTICIPATION
PUBLIC SPACES // REAL ESTATE ANALYSIS // **REAL ESTATE DEVELOPMENT** // REAL ESTATE FINANCE
REAL ESTATE LAW // **REGIONAL PLANNING** // REGIONALLY RESPONSIVE DESIGN // **RENEWABLE ENERGY** // RENOVATION
RESILIENT LANDSCAPES // RURAL AND GATEWAY COMMUNITY PLANNING // SITE ANALYSIS AND PLANNING // SMART CITIES
STORMWATER MANAGEMENT // SUSTAINABLE DESIGN // **SUSTAINABILITY** // TECHNOLOGY
TRADITIONAL MATERIALS AND CONSTRUCTION SYSTEMS // TRANSIT-ORIENTED DEVELOPMENT // TRANSPORTATION // **URBAN DESIGN**
URBAN HISTORY // **URBAN PLANNING** // URBAN WILDLIFE HABITAT // **WALKABILITY**
WATER USE AND CONSERVATION // WATER SECURITY // **ZONING AND PLANNING LAW**

Institute on Place, Wellbeing and Performance

An interdisciplinary institute at the University of Arizona, the Institute on Place, Wellbeing and Performance (IPWP) links expertise of the UA College of Medicine - Tucson, the Arizona Center for Integrative Medicine and CAPLA, actualizing the university's commitment to a vision of human health. The institute seeks to redefine human health to fully encompass the role of the built and green environment in health and wellbeing, and to promote health and wellbeing in the built environment through research, education, practice and policy change.

In AY 2020-2021, IPWP completed four projects while continuing work on eight other projects, totaling \$2,722,328 in awards for the life of the projects. These projects include:

RII-Campus Re-Entry: A Crowdsourced Data-Sharing and Visualization Tool and Geographical Information System (GIS) Overlay of Health Tracking Data Combined with Campus Building Design, Operations and Temporal Movement Data to Identify and Mitigate At-Risk Spaces in Post-COVID-19 Re-Entry

PI: Esther M. Sternberg; Co-PI: Bo Yang, Shujuan Li, Altaf Engineer, Philip Stoker, Young-Jun Son and Matthias Mehl (\$35,000)

Impact of CO₂ in the Built Environment on Sleep Quality and Cognitive Function in Sleep and Circadian Science Laboratories for Better Individual Health and Wellbeing Outcomes

PI: Altaf Engineer (\$8,000)

Multimodal Objective Sensing to Assess Individuals with Context (MOSAIC) Rapid Automatic Adaptive Modeling of Performance Prediction (RAAMP2)

PI: Esther M. Sternberg (\$1,915,565)

“DASH-SAFE” and “DASH-Well”: Two Near Real-Time Geographic Information System-Based Tools for Risk Assessment and Emotion Mapping in the Built Environment

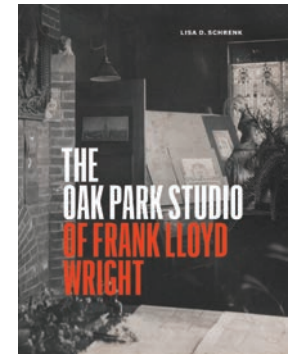
PI: Esther M. Sternberg; Co-PIs: Bo Yang, Shujuan Li, Young-Jun Son, Philip Stoker, Altaf Engineer and Matthias Mehl (\$10,000)

DASH-SAFE: A Near Real-Time Geospatial and Temporal Personal Viral Risk-Assessment, Risk-Management Dashboard for Risk Avoidance, Safer Navigation and Stress Reduction

PI: Esther M. Sternberg; Co-PIs: Bo Yang, Shujuan Li, Young-Jun Son, Altaf Engineer, Philip Stoker and Matthias Mehl (\$1,200)

THE OAK PARK STUDIO OF FRANK LLOYD WRIGHT

Lisa D. Schrenk
University of Chicago
Press, 2021



Associate Professor of Architectural History
Lisa D. Schrenk's richly narrative and informative book containing 180 images provides the first comprehensive look at the early independent office of one of the world's most influential architects. But *The Oak Park Studio of Frank Lloyd Wright* is not just an examination of the building itself. One of the book's "greatest achievements," notes Richard Cleary of the University of Texas at Austin, "is the vivid evocation of life within the studio by populating it with Wright and his family members, employees, consultants and clients."

Published in April 2021, the book has received critical acclaim: "In this magnificent offering, Lisa D. Schrenk takes a remarkably detailed look at Frank Lloyd Wright's Oak Park Studio in Chicago... Architecture buffs won't want to miss this extraordinary monograph," writes *Publishers Weekly*.

Schrenk, an associate professor of architectural history, is a leading authority on the early work of Wright. In addition to teaching at the University of Arizona and other universities, she spent four years as director of education for the Frank Lloyd Wright Home and Studio.

Select Faculty Publications

JOURNALS

Atmospheric Pollution Research
Building and Environment
Climate Services
Environment: Science and Policy for Sustainable Development
Environmental Science and Technology Water
Health and Place
Journal of Comparative Urban Law and Policy
Journal of Climate Change and Health
Journal of Environmental Policy and Planning
Journal of Planning Literature
Landscape and Urban Planning
Landscape Journal
Resources, Conservation and Recycling
Socio-Ecological Practice Research
Time and Mind
Transportation Research Record
Water Policy

BOOK CHAPTERS, CONFERENCE PROCEEDINGS AND REPORTS

AMPS, The City and Complexity: Life, Design and Commerce in the Built Environment
Mobile Sending in Psychology: Methods and Applications
Proceedings of ARCC Performative Environments
Proceedings of Indoor Air 2020
QuickNotes: Urban Heat Resilience
Transportation and Land Development
Verum Fiction: Architectural Delineation and Speculation, 1984-2020

Neighborhood Farms Could Be the Answer to ‘Food Deserts’ in Desert Cities

Even in arid climates where water is scarce, urban farms could be a solution to so called “food deserts”—sections of a city where residents don’t have access to healthy and affordable food. That’s what researchers led by Assistant Professor of Architecture **Courtney Crosson** found while studying the viability of urban farming in desert cities by using Tucson as a case study. Their findings also suggest that water collected through rainwater harvesting, though not the most predictable source of irrigation, can be used to irrigate enough food to sustain large populations even in some of the driest places—if harnessed efficiently and shared collaboratively.

After modeling farms, crops and water sources, Crosson and fellow researchers analyzed scenarios for sharing food between neighborhoods, finding that complete community collaboration provides more than enough produce to meet the needs of all Tucson food desert residents, which account for nearly one-fifth of the city’s population.

The finding was a bit of a surprise, Crosson says. But she’s already building on the study, using its results to find several optimal sites for urban farms in Pima County. Undergraduate students in her Fall 2021 studio course are designing the farms, and Pima County will be able to use those designs to help meet its food system goals in the county’s Sustainable Action Plan.

LEARN MORE AT [CAPLA.ARIZONA.EDU/FOOD-DESERTS](https://capla.arizona.edu/food-deserts).

CURRENT ISOLATED MODEL (CONCEPTUAL)

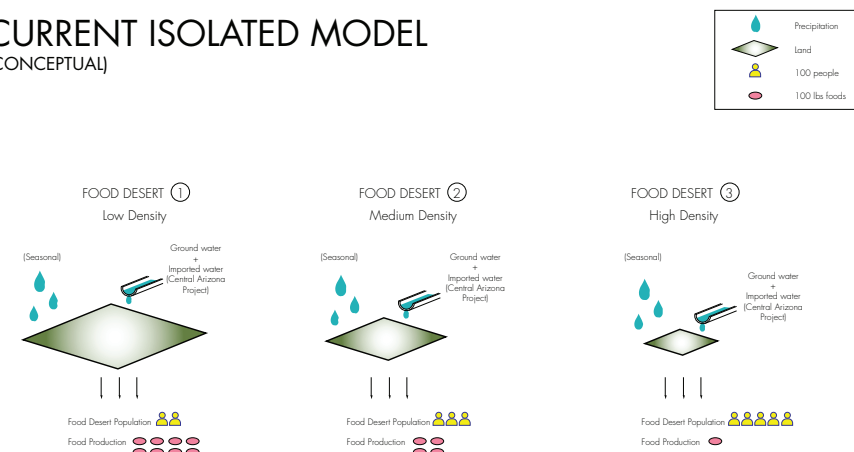


Image courtesy Courtney Crosson.

‘PERFORMATIVE ENVIRONMENTS’

SPARK INSIGHT AND ACTIVISM
AT INTERNATIONAL CONFERENCE
HOSTED BY SCHOOL OF ARCHITECTURE

APRIL 7-10, 2021 | TUCSON, ARIZONA AND ONLINE

Though the **Architectural Research Centers Consortium 2021: Performative Environments**

international conference hosted by the School of Architecture was held during the pandemic—and therefore online instead of on campus as originally planned—the gathering of many of the world’s most provocative built environment researchers was a resounding success.

“The conference was a critical opportunity to curate a conversation around ‘performative environments’ in all their contexts,” says co-chair **Clare Robinson**, associate professor of architecture. “The School of Architecture and University of Arizona were the home and the heart of that robust and meaningful conversation, one that will last well beyond the conference’s dates.”



Clare Robinson



Beth Weinstein

Performative environments encompass a range of topics and scales, from buildings and their components to landscape and urban performances—and include structural, environmental and material systems and information networks. “Architecture and built environments succeed or fail according to a broad spectrum of performance criteria including the aesthetic, social, cultural, economic and political production and inhabitation of space,” says **Beth Weinstein**, associate professor of architecture and the conference’s other co-chair. “The concept of performative environments, therefore, not only posits that people create and act upon buildings, but also that the latter have agency of their own. *Which is to say: space performs!*”

Drawing more than 230 participants, including nearly a hundred UArizona students, faculty members and attendees from the Tucson community, the conference featured a range of learning and networking opportunities—from workshops and panels to poster sessions and even virtual tours of campus and the surrounding region.

It took another kind of community to make the conference such a success. In addition to Robinson and Weinstein, CAPLA architecture professors **Jonathan Bean**, **Susannah Dickinson**, **Altaf Engineer**, **Laura Hollengreen** and **Aletheia Ida** played vital roles, from coordinating virtual exhibits, moderating panels and co-directing workshops to developing the conference’s graphic identity and web communications.

“Thanks to Beth, Clare and the rest of our faculty, ARCC 2021 was a major accomplishment for the School of Architecture, the college and the university,” says **Robert Miller**, director of the school. “Not only did they bring together a stunning diversity of researchers presenting the world’s foremost ideas on architecture and design, but they also demonstrated that at the University of Arizona, we are not just contributors to but shapers of essential emerging knowledge about our built environments.”

““ *The conference was a critical opportunity to curate a conversation around ‘performative environments’ in all their contexts. CAPLA was the home and the heart of that robust and meaningful conversation.*

With the theme of “performative environments” in mind, the conference’s three keynote speakers challenged attendees on “what and how we do architecture, making us accountable to the realization that we need to stop talking about architecture and instead speak about space,” says Robinson.

Eyal Weizman, University of London professor of spatial and visual cultures and founder of Forensic Architecture, opened the conference’s first day with a revolutionary keynote address titled “Cloud Studies,” setting the activist tone for the conference. Weizman was followed by **Peggy**

Deamer, professor emerita of the Yale University School of Architecture and principal in the firm of Deamer, Studio. Deamer’s keynote was titled “Political Production/Architectural Performance.” **Michelle Addington**, Henry M. Rockwell Chair in Architecture and dean of the University of Texas at Austin School of Architecture, closed out the keynotes with “Research Redux.”

ARCC 2021 also featured plenaries offering insights into performance praxis, how architectural practices perform research and why it’s important to push the boundaries on what performance is in relation to spatial research. In total, the conference featured more than 40 dynamic sessions plus an online lounge.

“We are honored and delighted to host ARCC 2021 and to be an integral part of these invigorating conversations,” says Dean **Nancy Pollock-Ellwand**. “The Architectural Research Centers Consortium has long been a leading organization for built environment research and scholarship, and beyond our wide faculty participation, I am particularly delighted that our students could be introduced to ARCC and the research culture it supports, for they are the makers of our future performative environments.”

LEARN MORE ABOUT ARCC 2021 AT [CAPLA.ARIZONA.EDU/ARCC2021](https://capla.arizona.edu/arcc2021).

CAPLA IN THE NEWS



“The 2020 Climate Year in Review Episode”

Ladd Keith, Assistant Professor of Planning and Sustainable Built Environments



“Could reusing the condensate from air conditioners be a feasible solution to mitigating water scarcity?”

Jonathan Bean, Assistant Professor of Architecture, Sustainable Built Environments and Marketing



“The Underwood Garden is a hidden oasis on the University of Arizona campus”

Oscar Lopez, Senior Lecturer in Architecture

“Disenfranchisement, not regionalism, defended in RTA status quo”

Arlie Adkins, Associate Professor of Urban Planning



“Air Conditioners Might Be One Water Source of Our Urban Future”

Jonathan Bean, Assistant Professor of Architecture, Sustainable Built Environments and Marketing



“Hiking in heat can have deadly repercussions in southern Arizona”

Ladd Keith, Assistant Professor of Planning and Sustainable Built Environments



“Will Dallas see wave of HQ relocations slow after power outages and grid failures?”

Ladd Keith, Assistant Professor of Planning and Sustainable Built Environments



“s p a c e BUREAU designs a pizzeria in the old warehouse district of Tucson, Arizona”

Oscar Lopez, Senior Lecturer in Architecture



“Planting a million trees in the semi-arid desert to combat climate change”

Adriana Zuniga, Assistant Research Scientist



“Housing is Miles Away from Being Affordable, These Builders are Changing the Game”

Arthur C. Nelson, Professor of Urban Planning and Real Estate Development



“Heat and virus bring a double threat to vulnerable populations”

Ladd Keith, Assistant Professor of Planning and Sustainable Built Environments



“Revisiting the danger to pedestrians in Tucson”

Arlie Adkins, Associate Professor of Urban Planning



“How Will Phoenix Rise from the Ashes of COVID-19?”

Lisa Schrenk, Associate Professor of Architectural History



“The potential of green infrastructure in mitigating flood impacts: Focused on the mobility of low income and minority communities”

Courtney Crosson, Assistant Professor of Architecture



“Heat and Smog Hit Low-Income Communities and People of Color Hardest, Scientists Say”

Ladd Keith, Assistant Professor of Planning and Sustainable Built Environments



“Cities with the Most Overleveraged Mortgage Debtors”

James Marian, Lecturer in Real Estate Development

WONDER MAKES US PREPARE STUDENTS FOR A TRANSFORMATIVE FUTURE.

ACADEMIC PROGRAMS



CAPLA faculty and students continue to move boldly into the future, despite the ongoing disruptions and uncertainties of the pandemic. Faculty, staff and students have rallied to keep everyone healthy and safe and to continue teaching and learning at the highest possible level, particularly as we moved out of online-only courses and back into studios, classrooms and the Materials Labs in Fall 2021. Our dedication to training the built environment professionals of the future for Arizona and beyond is unflagging.

In the 2020-2021 academic year we saw student enrollments grow across virtually all of our programs, from the Bachelor of Architecture program and the Bachelor of Science in Sustainable Built Environments—offered on campus, online and via the microcampus program partnership with UPC Lima—to the Master of Architecture, Master of Landscape Architecture and Master of Science in Urban Planning. The Bachelor of Landscape Architecture, which saw its first students in 2020, and the online Master of Real Estate Development experienced particularly impressive growth. In Fall 2020 we formally launched the undergraduate Minor in Real Estate Development, which quickly became our most popular minor. In addition, the new and distinctive Phase 3 or “P3” curriculum governing the final three semesters in the B Arch, long in the planning, was formally implemented beginning in Spring 2021, with four groups of faculty collaborators and

four clusters of courses for students; initial concentration areas include *Critical Practices*, *Material Matters*, *(Meta) Physics of Light* and *Urban Agency*. Finally, in Summer 2021, we launched a reinvigorated Certificate in Heritage Conservation, a five-course graduate program now offered fully online.

As we look to the future, college faculty and staff are engaged in a broad-based conversation about principles and timetables governing the interwoven matters of faculty and staff hiring, curricular change and innovation, and student recruitment and retention. All stakeholders are working intelligently and intensively to understand our complex circumstances and to plan for sustainability and growth in the college’s core missions of teaching, research and service.

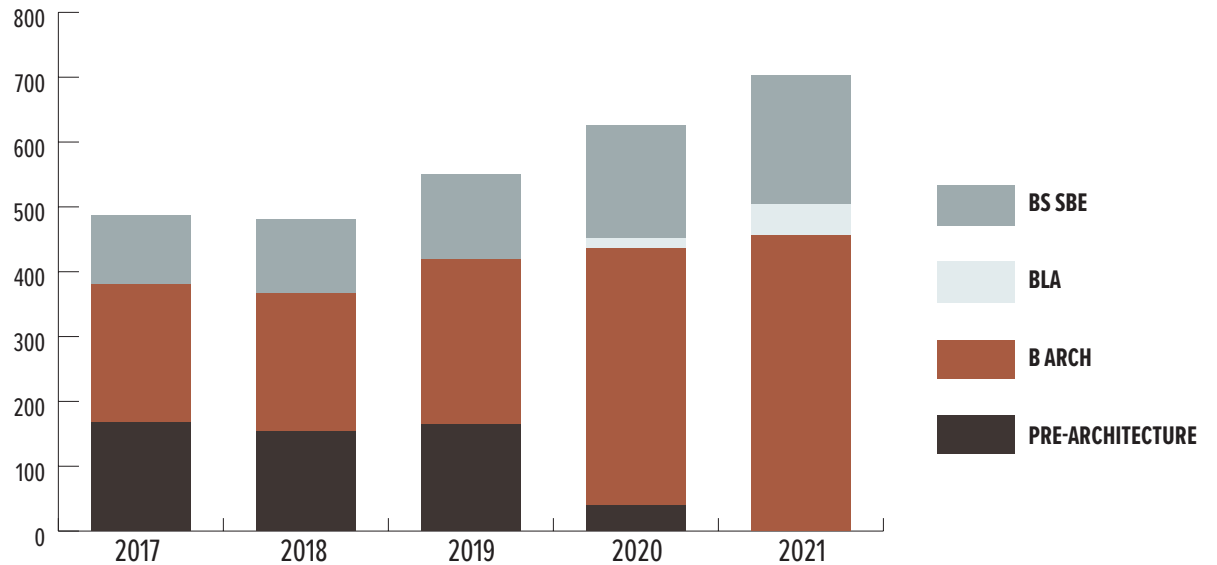
Laura H. Hollengreen
Laura H. Hollengreen
Associate Dean for Academic Affairs
Associate Professor of Architecture

ADVISING AND RECRUITMENT

The hardworking advising and recruitment team has been essential to the success of CAPLA academic programs in 2021, working in concert with UArizona initiatives like Student Success and Retention Innovation to support and retain students during the challenges of the pandemic and the return to in-person instruction this fall. As a result, enrollments have grown across the board. Helping to make this possible was the hire of two new staff members. **Taylor Mears** serves as “launch” advisor for B Arch students, whether they are headed into the workforce or on to graduate school. She helps them make their way through the final required courses of the Core curriculum and understand the new, complex Phase 3 (P3) curriculum of advanced options. She also does the all-important degree audits that ensure students are on track to graduate. **Caitlin Fitzpatrick** is CAPLA’s new recruiter. With significant admissions experience already under her belt, Cait has been on the fast track to achieving our recruitment goals for AY 2022-2023, with some numbers up considerably over last year’s high numbers. We are excited to have her clear communication and genial, proactive personality as the face of the college to prospective undergraduates.

Growth in CAPLA Undergraduate Programs

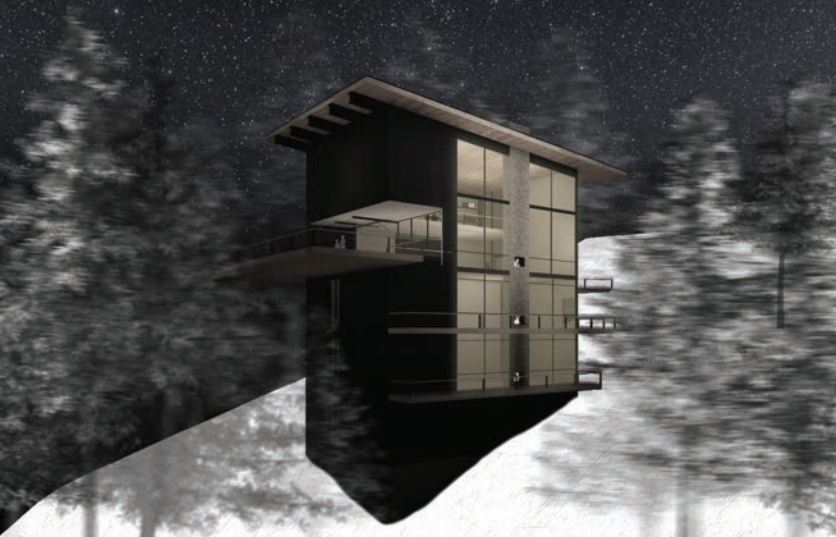
CAPLA Undergraduate Students by Program (2017-2021)



	FALL SEMESTER				
ACADEMIC PLAN	2017	2018	2019	2020	2021
PRE-ARCHITECTURE	167	154	164	39	
ARCHITECTURE (B ARCH)	213	213	256	397	456
LANDSCAPE ARCHITECTURE (BLA)				16	48
SUSTAINABLE BUILT ENVIRONMENTS (BS SBE)	107	114	130	174	199
TOTAL	487	481	550	626	703
Year Over Year Change (Headcount)		-6	69	76	77
Year Over Year Change (%)		-1.2%	14.3%	13.8%	12.3%

Notes

1. Data based on census date for each year (21st calendar day of Fall semester).
2. In Fall 2020, Pre-Architecture and B Arch were reorganized, resulting in the phaseout of the Pre-Architecture designation.
3. The growth of BS SBE enrollment is primarily due to the online campus program (from 20 students in Fall 2017 to 70 students in Fall 2021) and the UPC Lima microcampus program, which began Spring 2020.



AGM/Ascension Awards \$5,000 to Architecture Students in Inaugural Universal Design Prize

“I once read that ‘people ignore design that ignores people,’” says **Jules Cervantes**, a third-year Bachelor of Architecture student. “Architecture is about creating spaces that not only serve the site and highlight the concept, but also bring people together.”

Cervantes’s studio project *Emerge*—which was awarded the AGM Universal Design Honor Award and \$2,000 from her semester-long work in Design Studio III: Integrating Place—does just that: create a place for people through its “refined detailing and craft, particularly in its attention to light, visibility and access, which the project seems to intertwine effortlessly,” say prize judges.

Seven other third-year architecture students were also awarded prizes in CAPLA’s inaugural Universal Design Prize, funded by AGM Container Controls and Ascension Wheelchair Lifts, which has committed a total \$60,000 to the studio and design prize for 2020, 2021 and 2022. **Nickolas Witt** and **Hunter Jinbo** won the Merit Award (\$1,000) and innovation awards of \$200 each were awarded to **Jack McCahon** for process, **Tiffany Valenzuela** for universal design, **Kaya Orona** for sustainability, **David Zuniga** for concept and **Chris Kleha** for architectural narrative.

Universal design is a concept that prioritizes accessibility in buildings, products and environments for all people, regardless of age, ability or status in life. In addition to exploring their assigned sloped sites in Bisbee and atop Mt. Lemmon, students consulted with UArizona’s Disability Resource Center.

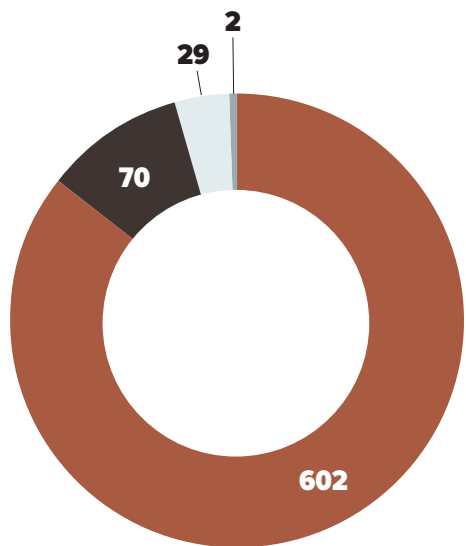
“Consistent with the studio theme of *place*, students responded to myriad site factors, including sun, wind, climate, views, flora, fauna, culture, history, topography and—new this semester—universal design,” says studio lead **Teresa Rosano**, assistant professor of practice in architecture, who teamed with fellow lecturers **Eduardo Guerrero**, **Bill Mackey** and **Siri Trumble** on the successful studio.

LEARN MORE AT [CAPLA.ARIZONA.EDU/UNIVERSAL-DESIGN](https://capla.arizona.edu/universal-design).

Images by Jules Cervantes from her 2020 AGM/Ascension Wheelchair Lifts Universal Design Prize Honor Award.

Undergraduate Student Enrollment by Campus

Fall 2021



MAIN ONLINE GLOBAL (PERU) GLOBAL (DIRECT)

Notes

1. Data based on census date for each year (21st calendar day of Fall semester).
2. The Global (Direct) campus for Arizona students taking fully online coursework from outside the U.S., but not through Arizona Online.



UArizona Chapter Wins Highest Honor from American Institute of Architecture Students

The University of Arizona chapter of the American Institute of Architecture Students (AIAS) has long been a beacon for design students at CAPLA, creating a successful mentoring program, hosting dynamic student events, managing the AIAS community service program and more.

Now the UArizona AIAS chapter has been recognized for its outstanding service with the 2020 AIAS Honor Award, the highest honor the national organization can bestow upon a chapter. The AIAS jury selected the UArizona chapter for its “incredible level of effort and coordination of leadership to have consistent growth.”

“I hope this award will encourage future student leaders at CAPLA to find their role, create a vision and exceed expectations,” says **Brooke Sands** '22 B Arch, president of the UArizona AIAS chapter during the 2019-2020 school year. “Hard work pays off.”

“This is a great honor,” says chapter advisor **Oscar Lopez**, senior lecturer in architecture. “Our AIAS leadership team has worked hard to promote the success of architecture students at CAPLA and to make direct connections and contributions to our profession through our local and state AIA chapters.”

“We truly enjoy being part of architecture students’ educational, professional and personal growth,” says **Ally Kwan** '23 B Arch, 2020-2021 president of the UArizona AIAS chapter. “We are thrilled and honored to be recognized.”

LEARN MORE AT [CAPLA.ARIZONA.EDU/AIAS-AWARD](https://capla.arizona.edu/aias-award).

Photo (above): UArizona AIAS 2019-2020 Leadership: L to R, top row: Hayden Crockett, Alyssa Arnold, Lauren Craig, Sacha Kessler, Nik Altamura; bottom row: Brooke Sands, Emily Miller, Ally Kwan, Lindsay Roland, Lydia Roberts. Not pictured: Alex Torres, Rachael Varin.

Photo courtesy Ally Kwan.

CAPLA Students Launch University of Arizona NOMA Chapter

Under the guidance of Senior Lecturer in Architecture **Damon Leverett**, CAPLA undergraduate students in architecture chartered the University of Arizona student chapter of the National Organization of Minority Architects, or NOMA, in Spring 2021.

The NOMA UArizona student chapter “aims to create a unified community within CAPLA, to serve as an increasingly influential voice in minimizing the effects of discrimination and to promote the voice and work of minority design and built environment students for the betterment of our community,” say founding co-chairs **Ana Astiazaran** '22 B Arch and **Fin Pathomsiri** '22 B Arch.

The student organization welcomes all CAPLA students regardless of major or degree, and of any ethnicity, race, color, gender, sexual orientation, religion, disability or background, to “be a part of our mission in fighting discrimination as well as fostering communication and fellowship among members of our field.”

LEARN MORE AT [CAPLA.ARIZONA.EDU/NOMA](https://capla.arizona.edu/noma).

Our Student Organizations

- **AIAS:** American Institute of Architecture Students
- **ASLA:** American Society of Landscape Architects
- **CAPLA ISC:** International Students Club
- **GPS:** Graduate Planning Society
- **NOMA:** National Organization of Minority Architects Arizona Student Chapter
- **PUENTE:** CAPLA Hispanic Student Organization
- **Tau Sigma Delta** Honor Society in Architecture and Allied Arts
- **USGBC-SC:** U.S. Green Building Council Student Chapter, UArizona
- **WIAS:** Women in Architecture Society

LEARN MORE ABOUT CAPLA'S DYNAMIC STUDENT ORGANIZATIONS AT [CAPLA.ARIZONA.EDU/CLUBS](https://capla.arizona.edu/clubs).

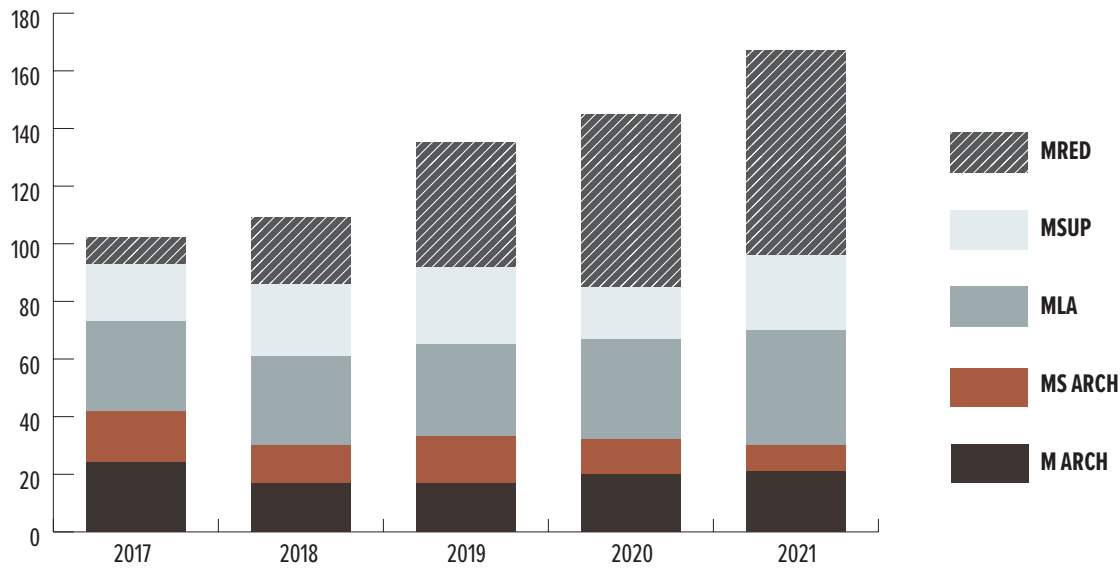
HeadSPACE

HeadSPACE is a CAPLA group advised by Senior Lecturer in Architecture **Valerie Lane** that organizes time and space where students can collectively explore ways to de-stress and have fun. The HeadSPACE social and wellness events are a big part of the social culture.

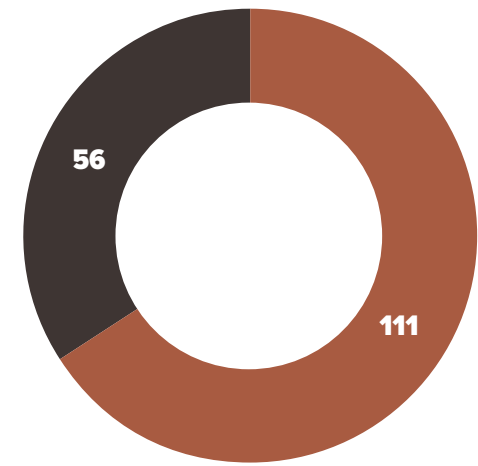
LEARN MORE AT [CAPLA.ARIZONA.EDU/HEADSPACE](https://capla.arizona.edu/headspace).

Growth in CAPLA Graduate Programs

CAPLA Graduate Students by Program 2017-2021



Graduate Student Enrollment by Campus Fall 2021



ACADEMIC PLAN	FALL SEMESTER				
	2017	2018	2019	2020	2021
ARCHITECTURE (M ARCH)	24	17	17	20	21
ARCHITECTURE (MS ARCH)	18	13	16	12	9
LANDSCAPE ARCHITECTURE (MLA)	31	31	32	35	40
URBAN PLANNING (MSUP)	20	25	27	18	26
REAL ESTATE DEVELOPMENT (MRED)	9	23	43	60	71
TOTAL	102	109	135	145	167
Year Over Year Change (Headcount)		7	26	10	22
Year Over Year Change (%)		6.9%	23.9%	7.4%	15.2%

Notes

1. Data based on census date for each year (21st calendar day of Fall semester).
2. The growth in the MRED program is primarily due to the online campus program (from 10 students in Fall 2018 to 56 students in Fall 2021).

Notes

1. Data based on census date for each year (21st calendar day of Fall semester).



CAPLA Launches Reinvigorated, Accessible Heritage Conservation Graduate Certificate

Though CAPLA's Graduate Certificate in Heritage Conservation already provided an immersive educational experience, the School of Landscape Architecture and Planning relaunched the program in Summer 2021 with reduced program fees and accessibility in mind by offering the courses fully online.

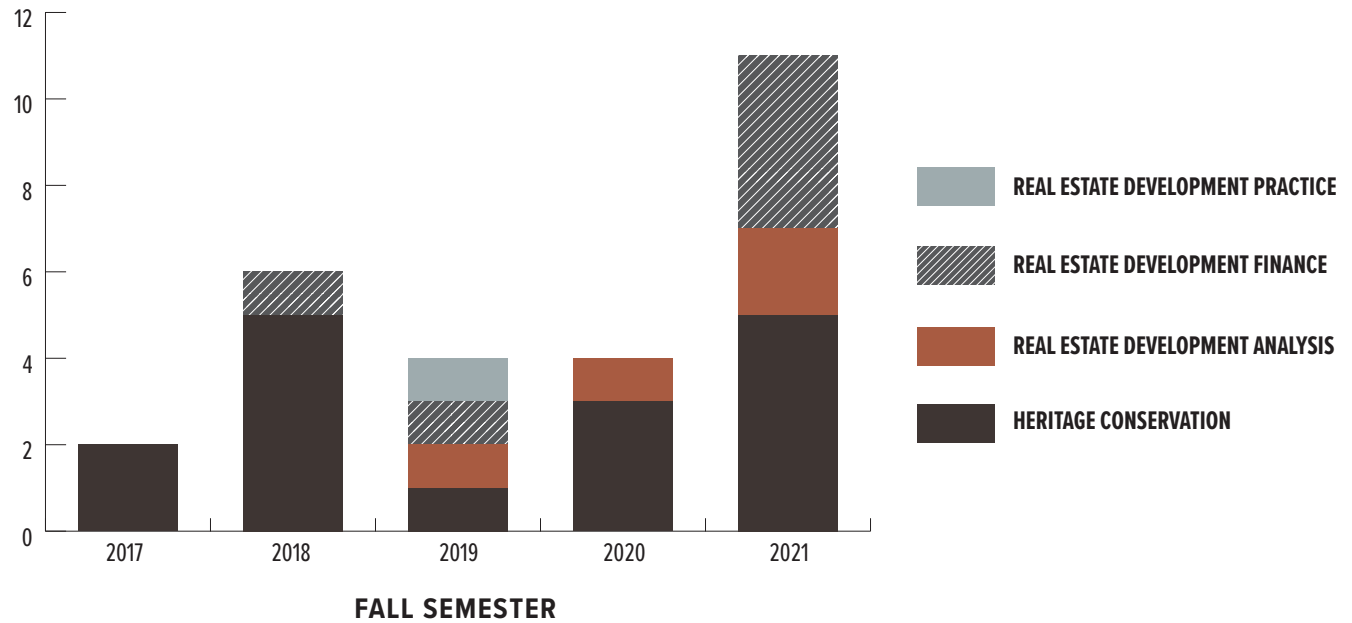
Students may complete the 15-unit certificate in as little as two semesters. It features five dynamic courses that span cultural resources, documentation and interpretation of the historic built environment, contemporary architecture and urban theory, cultural landscapes and preservation planning. With the certificate in hand, students from a variety of backgrounds will be prepared for practice in fields such as heritage conservation, cultural resource management and historic preservation.

LEARN MORE AT CAPLA.ARIZONA.EDU/HC.

Mission San Xavier del Bac. *Photo by Simmons Buntin.*

Growth in CAPLA Graduate Certificate Programs

CAPLA Graduate Certificate Program Enrollment 2017-2021



Notes

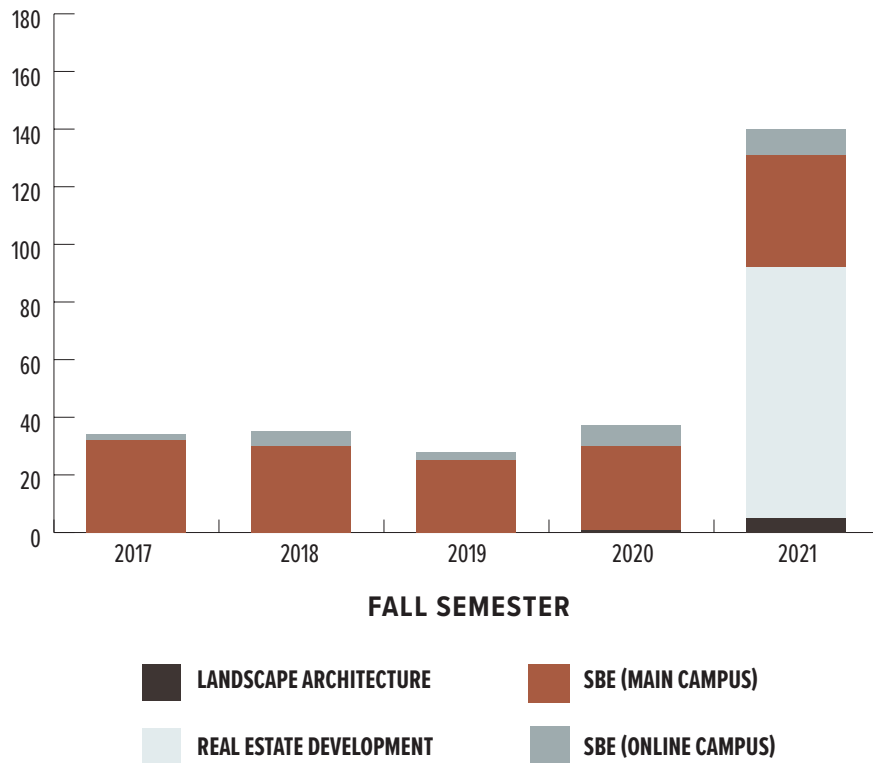
1. Data based on census date for each year (21st calendar day of Fall semester).
2. The majority of enrollments are driven by main campus.

Cliff Palace at Mesa Verde National Park. *Photo by milosk50.*



Growth in CAPLA Undergraduate Minors

CAPLA Undergraduate Minor Enrollment 2017-2021



Notes

1. Data based on census date for each year (21st calendar day of Fall semester).
2. The Minor in Landscape Architecture launched in Fall 2020 and the Minor in Real Estate Development launched in Spring 2021.



New Minor in Real Estate Development Gives Undergraduate Students Distinct Advantage

The high demand for real estate knowledge and expertise by undergraduate students at the University of Arizona can now be met thanks to the new Minor in Real Estate Development, launched in Spring 2021.

The six-course, 18-unit program prepares students for a variety of careers across real estate firms in an array of sizes and asset classes. They learn from award-winning practitioners and thought leaders through cases, presentations, projects and networking events.

The five-course core of the new program builds fundamental skills at the beginning of a student's trajectory in the minor—providing introductions to major concepts, strategies and empirical analytical techniques in residential and commercial real estate. It also confronts major issues in the property markets, including sustainability and resilience. Core courses include Introduction to Real Estate—a course offered for the first time in Fall 2020—plus Introduction to Real Estate Finance, Survey of Responsible Real Estate Development, The Land Development Process and Professional Project for Real Estate Development.

“The Minor in Real Estate Development gives students the edge they need to be active players in the future of exceptional placemaking,” says **Lauri Macmillan Johnson**, director of the School of Landscape Architecture and Planning, which oversees the minor.

LEARN MORE AT [CAPLA.ARIZONA.EDU/RED-MINOR](https://capla.arizona.edu/red-minor).

Photo by mTaira.

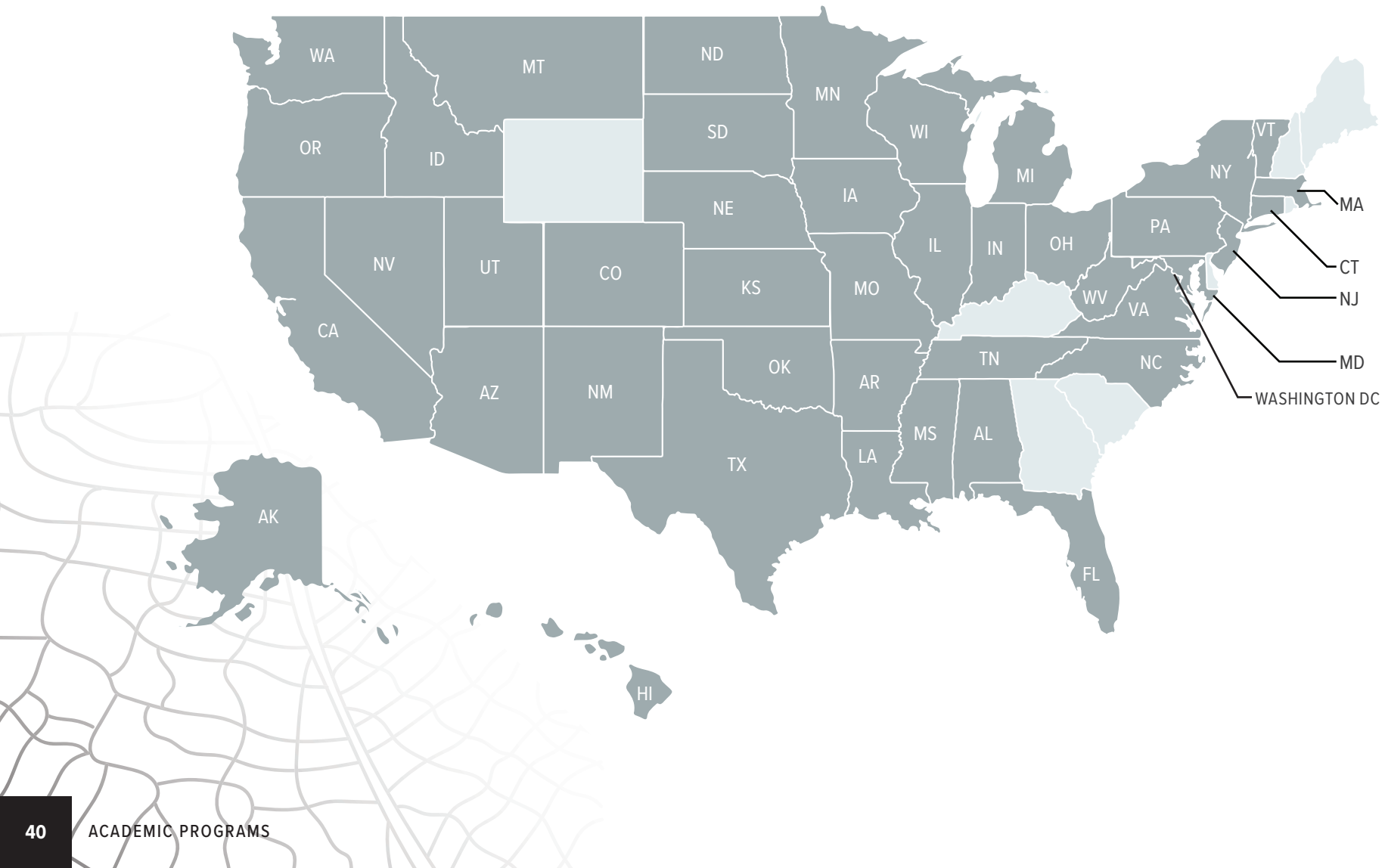
WHERE ARE CAPLA STUDENTS FROM?

Undergraduate Home State and Country Fall 2021

CAPLA undergraduate students come from Arizona and 45 other states and U.S. territories, and from 21 countries.

U.S. TERRITORIES/OTHER

Armed Forces Overseas High School
American Samoa
Puerto Rico



COUNTRIES

Angola
Bahrain
Belgium
Brazil
Canada

China
Guam
Honduras
Kazakhstan
Kuwait
Mexico

Nigeria
Peru
Saudi Arabia
South Africa
South Korea
Taiwan

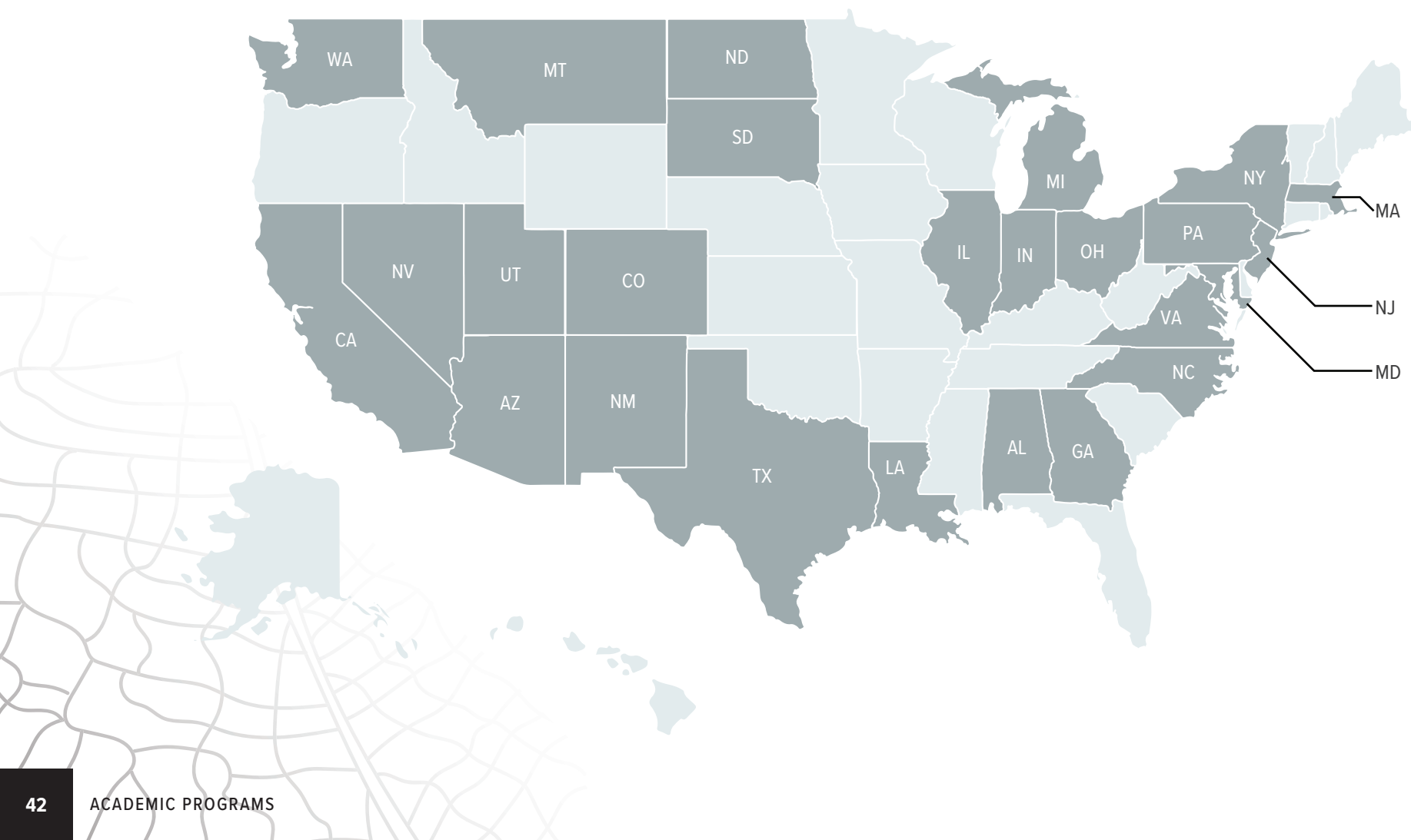
Togo
United Kingdom
United States
Viet Nam



WHERE ARE CAPLA STUDENTS FROM?

Graduate Home State and Country

CAPLA graduate students come from Arizona and 25 other states, and from 13 countries.



COUNTRIES

Brazil	Iran	United Kingdom
Canada	Mexico	United States
China	Saudi Arabi	Yugoslavia
Colombia	South Korea	
India	Taiwan	



PARTNERING ON ARCHITECTURAL ENGINEERING

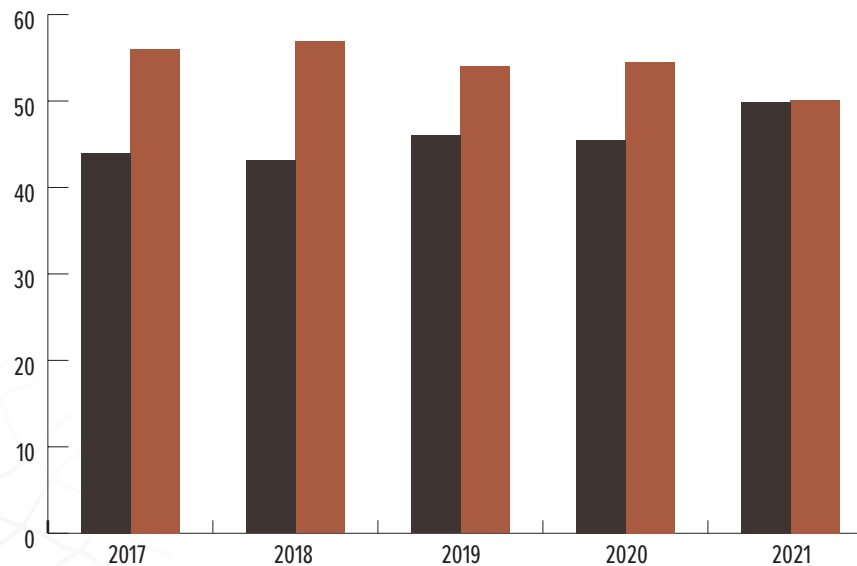
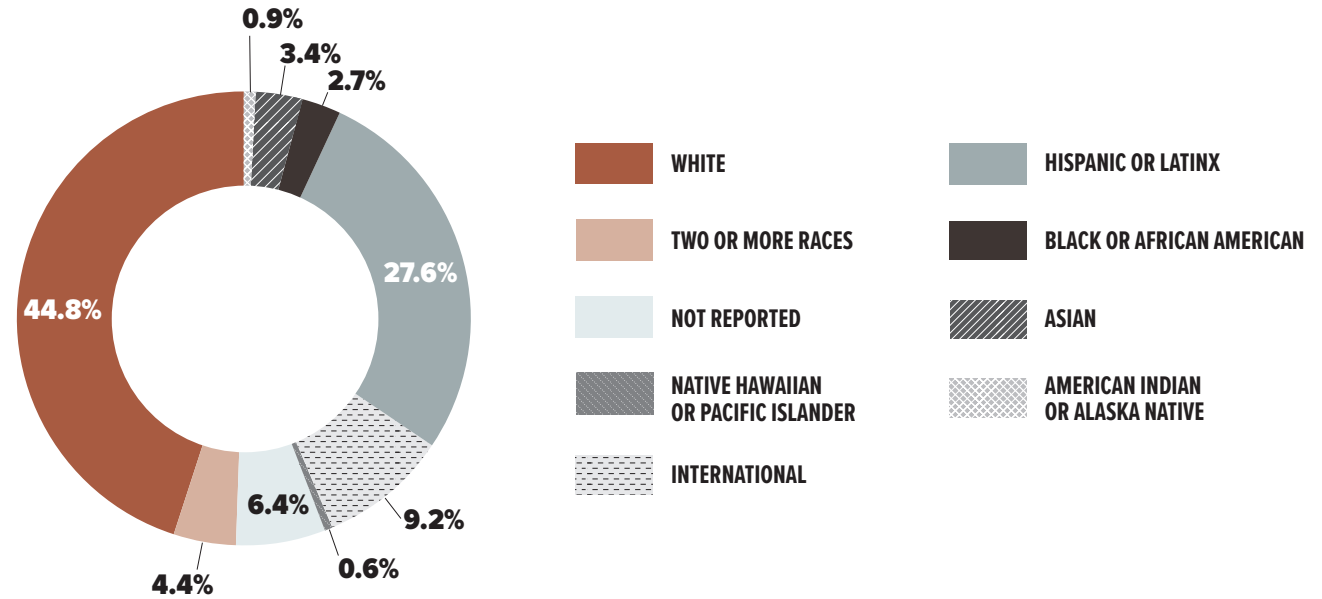
In 2017, CAPLA partnered to launch the Architectural Engineering undergraduate major, offered by the UArizona College of Engineering. In 2021, the program graduated its second class of seniors while also securing professional accreditation by the Accreditation Board for Engineering and Technology (ABET).

In accrediting the program, ABET acknowledged the unique strength of the program's integration of technical expertise and architectural design in the capstone sequence thanks to its partnership with CAPLA.

CAPLA supports five curriculum areas within the major: history of technology, building information modeling, environmental adaptive systems, lighting design and architectural design (studio).

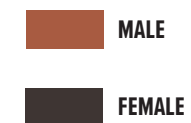
Undergraduate Student Race/Ethnicity

Fall 2021



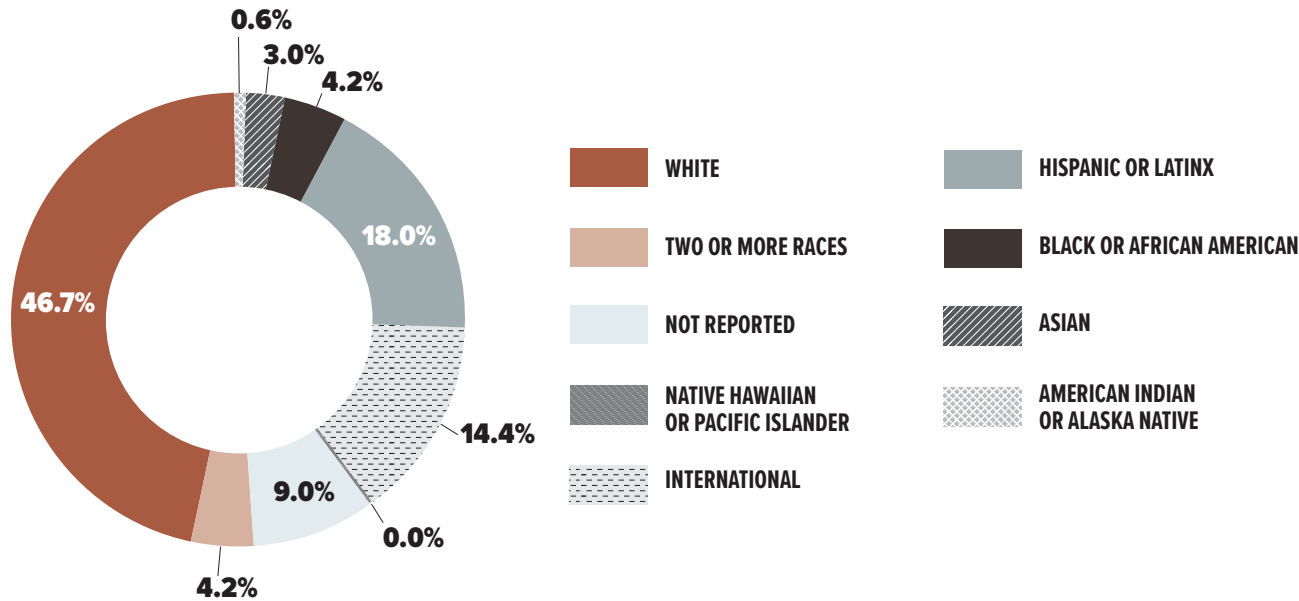
Undergraduate Student Reported Gender

Fall 2017-2021



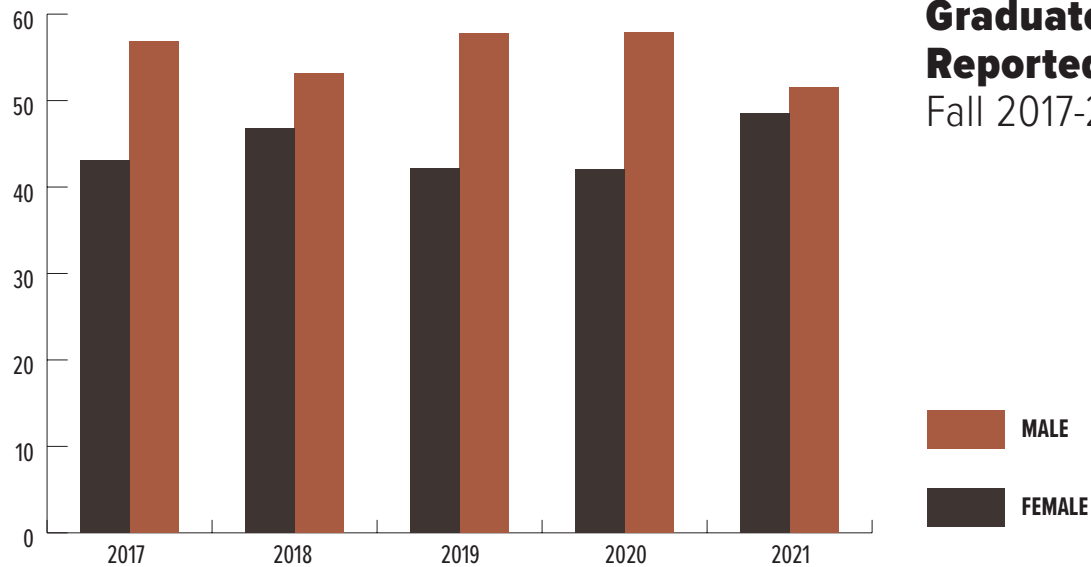
Graduate Student Race/Ethnicity

Fall 2021



EQUITY, DIVERSITY AND INCLUSION AT CAPLA

View more details on the demographics of CAPLA students, faculty and staff—and learn about our ongoing, college-wide efforts toward equity, diversity and inclusion—at capla.arizona.edu/edi.



Graduate Student Reported Gender

Fall 2017-2021

ENGAGING OUR COMMUNITY

CAPLA's community partners in teaching, research and service represent a broad mix of companies and organizations in Tucson, in Arizona and far beyond. We are grateful for their engagement and support of our students and faculty.

PROFESSIONAL ORGANIZATIONS

- American Institute of Architects Arizona
- American Institute of Architects Southern Arizona
- American Planning Association Arizona
- American Society of Landscape Architects Arizona
- Arizona Builders Alliance
- Association of Collegiate Schools of Architecture
- Association of Collegiate Schools of Planning
- CCIM Institute
- Commercial Real Estate Women (CREW)
- Cornerstone Building Foundation
- Council of Educators in Landscape Architecture
- Friends of Planning
- Landscape Architecture Foundation
- National Association of Women in Construction
- National Organization of Minority Architects
- Urban Land Institute

EDUCATIONAL INSTITUTIONS

- Arizona State University
- Boston Architectural College
- Colorado State University
- Columbia University
- Consejo Nacional de Ciencia y Tecnologia (Mexico)
- Cornell University
- La Universidad Peruana de Ciencia Aplicadas (Peru)
- Pima Community College
- Princeton University
- Rice University
- Portland State University
- Texas Tech University
- Universidad Nacional Autónoma de México (Mexico)
- The University of Arizona (Various Centers, Institutes and Colleges)
- University of Illinois at Urbana-Champaign
- University of North Carolina at Chapel Hill
- University of Pennsylvania
- University of Washington

DESIGN, ENGINEERING AND CONSTRUCTION FIRMS

- AAA Landscape
- Allied Works
- Anderson
- Ayers Saint Gross
- BrightView Companies
- Butler Design Group
- BRR Architecture
- BWS Architects
- Carlile Coatsworth Architects
- CCBG Architects
- Chasse Building Team
- Clark, Richardson and Biskup Consulting Engineers
- Corgan
- Denton House Design Studio
- Design Workshop
- DLR Group
- Ferguson Architecture PS
- GH2 Architects
- Gilbane Building Company
- GLHN Architects & Engineers
- Hoefel Welker
- Holly Street Studio
- KieranTimberlake
- Kitchell
- LAST Architects
- Lloyd Construction
- M3 Engineering and Technology
- Marlene Imirzian and Associates Architects
- MC Companies
- McGann and Associates
- MIG
- Nelsen Partners
- Norris Design
- Orcutt | Winslow
- Richard Kennedy Architects
- RIOS

- RSP Architects
- SB Architects
- SDG Architecture
- Shepley Bulfinch
- SmithGroup
- SOM
- SPS+ Architects
- Stantec
- Swaim Associates
- TrueForm Landscape Architects
- Ware Malcomb
- Wheat Design Group
- Wilder Landscape Architects
- WRNS Studio
- Zebra Projects

ALLIED INDUSTRIES

- AGM Container Controls
- Ascension Wheelchair Lifts
- Carlton Fields
- Google
- Microsoft
- Pella Windows and Doors
- Tripalink
- Community Partners
- Community Foundation of Southern Arizona
- Cornerstone Building Foundation
- Frank Lloyd Wright Foundation
- Grant/Alvernon Area Plan (GAAP)
- Habitat for Humanity
- Ironwood Tree Experience
- Miramonte Neighborhood Association
- Mission Garden
- Rillito Bend Neighborhood Association
- Santa Cruz Watershed Collaborative
- Southwestern Foundation for Education and Historical Preservation
- Tonto Creek Camp

- Tucson Botanical Garden
- Tucson Clean and Beautiful
- University of Arizona Foundation
- Urban Design 4 Health
- The Urban Studio
- Watershed Management Group

GOVERNMENT/ PUBLIC AGENCIES AND UTILITIES

- California Department of Transportation
- City of Hermosillo, Sonora
- City of Tempe
- City of Tucson Department of Parks and Recreation
- City of Tucson Department of Planning and Development Services
- City of Tucson Department of Transportation and Mobility
- City of Tucson Manager's Office
- National Institute for Transportation and Communities
- National Oceanic and Atmospheric Administration
- National Park Service
- National Renewable Energy Laboratory
- National Trust for Historic Preservation
- Navy Officer Programs Tucson
- Pascua Yaqui Tribe
- Pima County
- Pima County Regional Flood Control District
- Salt River Project
- Southwest Fair Housing Council
- Southwest Gas
- Thurston County Planning Department
- Tucson Electric Power Company
- Tucson Water
- U.S. Department of Energy

WONDER MAKES US SHINE.



ALUMNI: OUR GUIDING LIGHT

This has been the year of alumni persistence at CAPLA!

We are grateful for the unwavering determination alumni have exhibited throughout the past year. The characteristic tenacity of CAPLA graduates was ever-present in their commitment to engage in and support our college during a time when we could see each other only on a computer screen. Alumni logged in for lectures, panel discussions, reviews, interviews and mentoring—sharing their expertise, wisdom, encouragement and stories all for the benefit of CAPLA students.

We all learned the new phrase, “You’re on mute.” More importantly, however, we learned an important lesson: we can still be together when we are apart.

For instance, in April 2021 we celebrated our scholarship donors and recipients during an evening online where students had the chance to thank donors live and in their own voice. It was as moving an experience as I’ve witnessed in a long time, online or off.

Like those scholarship providers, CAPLA alumni overall have been a shining light for our college. Their consistent commitment to building a changing world, embracing opportunities, tackling challenges and mindfully supporting their communities proves once again that our alumni set a powerful example for our students—and for the rest of us.

As we push forward, their light continues to guide us. Thank you.

A handwritten signature in black ink that reads "Kay O. Brown". The signature is fluid and cursive.

Kay Olsen Brown

Director of Alumni Relations and Community Engagement

ALUMNI, WE INVITE YOU TO SHARE WHERE YOU ARE, WHAT YOU'RE UP TO AND WHAT YOU'RE WORKING ON!

Join us on the **CAPLA website** for our interactive and ever-expanding **Alumni Directory and Alumni Projects showcase:**

ALUMNI DIRECTORY »

CAPLA.ARIZONA.EDU/ALUMNI/DIRECTORY

Connect with CAPLA alumni—a dynamic group of architects, designers, developers, planners and more who are building a changing world. And while viewing the directory, be sure to provide your information, too.

CAPLA ALUMNI PROJECTS »

CAPLA.ARIZONA.EDU/ALUMNI/PROJECTS

Architecture, heritage conservation, landscape architecture, planning, real estate development and sustainable built environments alumni create a wide variety of outstanding projects and other work after graduating from CAPLA. View featured projects and submit your favorite work.

Heather Henricks Lenkin '79 B Arch 2020-2021 CAPLA ALUMNA OF THE YEAR

CAPLA is delighted to honor **Heather Henricks Lenkin** as our 2020-2021 Alumna of the Year. She was chosen by CAPLA and the Arizona Alumni Association for her outstanding career success, passionate work to protect the world's cultural resources and unwavering support of the university.



A 1979 University of Arizona graduate with degrees in both interior design and architecture, with honors, Lenkin served as president of Lenkin Design in Pasadena, California for more than 25 years. She currently serves as a trustee of the University of Arizona Foundation and recently served as a trustee for the World Monuments Fund and Frank Lloyd Wright Foundation.

Preservation work has been a lifelong interest for Lenkin, and she has traveled the world to share her expertise in protecting culturally significant sites and structures. Southern Arizona's Mission San Xavier del Bac was designated a World Monuments Fund Watch Site in 2016 due in large part to her efforts.

Born in River Forest, Illinois, Lenkin found early inspiration in the hallmarks of the Prairie School architecture movement as embodied in the work of Frank Lloyd Wright. Lenkin and her firm have earned wide recognition over the years. She is the first two-time recipient of *Garden Design* magazine's "Golden Trowel" award honoring "America's Best Gardens." Her own home gardens have been selected by Japanese public television and *Great Gardens* magazine as one of the "Top Ten Gardens in the United States," and *Cottage Living* magazine called her garden one of the "Ten Most Romantic Gardens in the United States."

In addition to her work with the UArizona Foundation, Lenkin has supported and advised CAPLA, the John and Doris Norton School of Family and Consumer Sciences and the Honors College. She established the **Ronald R. Stoltz**, FASLA, FCELA Scholarship in honor of the former director of the School of Landscape Architecture and Planning, supporting students studying landscape architecture.

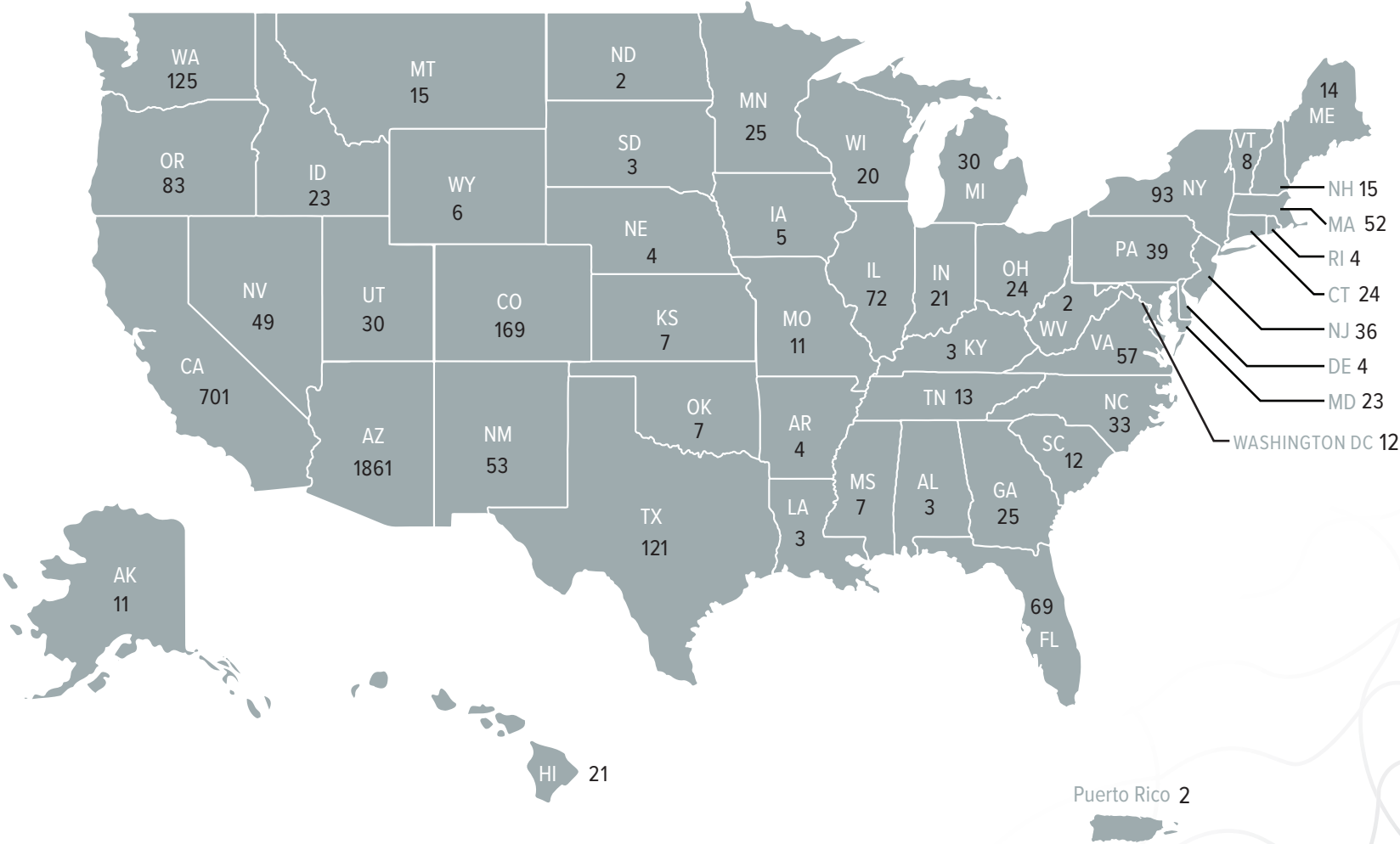
"Heather is the kind of designer you strive to become yourself—creating meaningful, memorable work that touches the soul as well as the senses," says CAPLA Dean **Nancy Pollock-Ellwand**. "Through her practice and advocacy, she has enthusiastically promoted and demonstrated the value of design and preservation. We couldn't be happier to honor Heather with this award."

Alumni by State and Country

CAPLA alumni live in all 50 states, Washington DC and Puerto Rico, plus 52 countries outside the U.S.

4,317
Total CAPLA alumni

257
International



Alumni by Countries

COUNTRIES

Botswana	2	Egypt	4	Israel	5	Mexico	30	Qatar	4	Switzerland	1
Brazil	1	France	2	Italy	2	Namibia	1	Russia	1	Taiwan	5
Canada	14	Germany	3	Japan	6	New Zealand	5	Saudi Arabia	9	Thailand	8
Cape Verde	1	Greece	2	Jordan	6	Norway	1	Singapore	6	Trinidad and Tobago	1
China	25	Hong Kong	7	Kazakhstan	1	Oman	3	South Africa	2	Turkey	1
Colombia	2	India	21	Kuwait	10	Paraguay	1	South Korea	7	United Arab Emirates	3
Dominican Republic	1	Indonesia	4	Lebanon	2	Peru	1	Spain	5	United Kingdom	8
Ecuador	2	Iran	7	Malaysia	20	Portugal	3	Sweden	1	United States	4,060



CAPLA FUTURES COUNCIL

The CAPLA Futures Council serves as an advisory board to CAPLA Dean **Nancy Pollock-Ellwand**. It is comprised of a group of luminaries from the academy, practice, industry and government. The Council gathers biannually to discuss current issues of the college and university, considering trends in education, the professions and the broader community that we must anticipate and respond to with creativity and innovation.

FALL 2020

ENSURING EQUITY AND BUILDING COMMUNITY

In October 2020, the CAPLA Futures Council gathering focused on equitable community building with a keynote presentation by **Kendra Hyson** '15 MLA, founder and board president of The Urban Studio and senior planner with Maryland-National Capital Park and Planning Commission. Hyson discussed the journey from her early interest in art to her professional training in landscape architecture to her practice in landscape architecture and planning as a meaningful vehicle to social equity and environmental awareness. She also described her work as co-founder of The Urban Studio, and the impact she has seen through engaging young people in communities of color. Hyson's keynote was followed by a session moderated by **Laura Hollengreen**, associate dean for academic affairs, in which Futures Council members shared their perspectives on the changes in the profession, the academy and the community that CAPLA must anticipate in continuing its tradition of, and dedication to, excellence in the built environment.

SPRING 2021

REINVENTION AND INNOVATION

In April 2021, the Futures Council gathering addressed the challenges facing students and young alumni in a world of rapid environmental, technical and societal change through an alumni panel and follow-on breakout sessions. Exploring how students and young professionals can best prepare for the change that will inevitably occur during their careers, the panel was moderated by **Kay Olsen Brown**, director of alumni relations and community engagement, and included **Monique Bassey** '14 MLA, a landscape designer at MIG, **Brent Jacobsen** '09 MLA, principal at RIOS, **Carrie Perron** '01 B Arch, director of higher education and associate principal for RSP, **Shannon Shula** '14 MS Urban Planning, a member of the Hopi tribe and associate planner for Thurston County, Washington, **Eric Sterner** '15 B Arch, design principal at LAST, and **Jay Young** '07 MS Urban Planning, executive director of the Southwest Fair Housing Council. Breakout sessions were facilitated by **Kristina Currans**, assistant professor of urban planning, and **Clare Robinson**, associate professor of architecture.

CAPLA Futures Council Members

Carrie Byles
Partner, SOM

Mahesh Daas
President and Distinguished Professor, Boston Architectural College

Randy Deutsch
Associate Director for Graduate Studies and Clinical Associate Professor of Architecture, University of Illinois Champaign-Urbana

Billie Faircloth
Partner, KieranTimberlake

Larry Head
Professor of Systems and Industrial Engineering and Director, Transportation Research Institute, The University of Arizona

Kendra Hyson
Co-Founder and President, The Urban Studio

Diane Jacobs
Principal, Holly Street Studio

Richard R. Johnson
Executive Director for Sustainability and Professor of Practice in Environmental Studies, Rice University
CAPLA Futures Council Chair

Brian Olasov
Executive Director, Financial Service Consulting, Carlton Fields

Angela Watson
President and CEO, Shepley Bulfinch

WONDER MAKES US INVEST IN THE FUTURE.

CAPLA FINANCES

Notes

1. State Funding consists of student tuition and university support distributed to CAPLA from the university RCM business model.
2. The Program Fees/Differential Tuition are not impacted by the growth rate for the rest of campus since 100% of the fees paid by CAPLA students for this source type come right back to CAPLA.
3. 25% of the F&A Distribution funding source is allocated to CAPLA F&A accounts for distribution to the college, departments and principle investigator(s). The remaining 75% of the F&A Distribution is allocated into the CAPLA overhead costs for grant management.
4. The increase in funding for Other Local Tuition & Fees is primarily due to the growth in online programs.
5. The UArizona Foundation allocation consists of expendable gift donations and endowment interest income realized in the UArizona Financial System.
6. Most of the Commitment funding comes from the Provost's Office for various reasons, including funding support for the microcampus program, CAPLA facility upgrades, research support and personnel support.
7. The Other/Miscellaneous funding section includes various sources such as AISS support for online programs and RII support for faculty research startup (no longer providing support effective FY 21).
8. The Transfers expenses mainly consist of annual charges from university central administration on our Program Fee/Differential Tuition accounts (Support Center Recover overhead, Provost Investment Fund support) and our annual payment to ERAS in the College of Engineering for research support.
9. Non-Operating expenses for FY 19 and FY 20 relate to the CAPLA Building renovation project (FY 21 did not have any expense activity due to COVID-19). Additional expenses are planned for FY 22.
10. The majority of the FY 21 net change is due to the following areas: commitment funding (\$535,924), personnel one-time reduced pay furlough program (\$305,710), temporary reduction to operations (\$301,916) and travel (\$156,152).

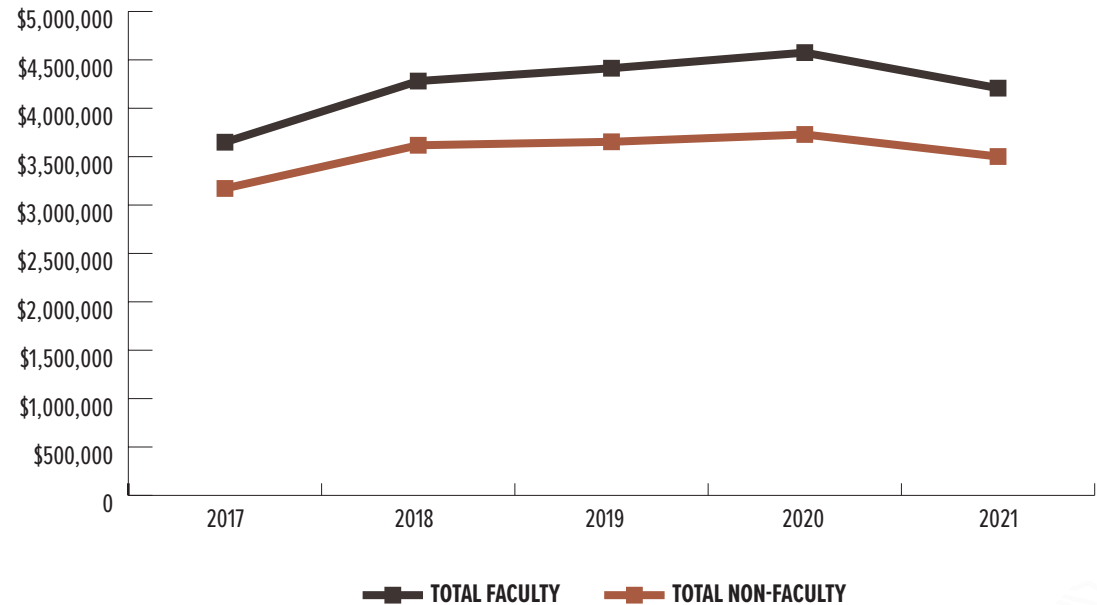
CAPLA Income Statement

SOURCES (OPERATING)	FISCAL YEAR			
	2019	2020	2021	
State Funding	7,644,695	7,489,850	7,086,725	(1)
Program Fees/Differential Tuition	797,428	864,089	983,152	(2)
F&A Distribution	225,842	222,031	152,882	(3)
Other Local Tuition & Fees	308,197	522,242	880,556	(4)
Gifts/Endowments (UArizona Foundation)	322,622	525,535	412,190	(5)
Commitment Funding	676,539	608,548	535,924	(6)
Other/Miscellaneous	199,613	117,982	65,749	(7)
TOTAL	10,174,936	10,350,276	10,117,178	
USES (OPERATING)				
Personnel (WAGES)	6,078,992	6,223,224	5,811,108	
Personnel (ERE)	1,988,280	2,081,089	1,898,098	
Personnel TOTAL	8,067,272	8,304,313	7,709,206	
Operations	915,283	707,943	406,026	
Travel	201,271	158,279	2,127	
Student Aid	290,022	256,120	302,128	
Capital	9,979	1,798	0	
Administrative Service Charge	21,282	21,355	22,253	
Transfers	200,062	186,074	182,005	(8)
TOTAL	9,705,171	9,635,883	8,623,746	
NET CHANGE (OPERATING)	469,765	714,394	1,493,432	
USES (NON-OPERATING)	450,000	550,000	0	(9)
TOTAL NET CHANGE	19,765	164,394	1,493,432	(10)

CAPLA Personnel Expenditures: Operating Wages + ERE

CAPLA Personnel Expenditures

Personnel expenditures were down in FY 21 due primarily to the one-time reduced pay furlough program mandated by the University of Arizona, the reduction of graduate assistants/associates and hourly workers due to building closure to meet UArizona COVID precautions, and faculty and staff position openings that had not yet been filled.



CAPLA Personnel Expenditures by Employee Category 2017-2021

EMPLOYEE CATEGORY	FISCAL YEAR				
	2017	2018	2019	2020	2021
Faculty (Tenured/Tenure-Eligible)	1,973,991	2,608,387	2,618,863	2,756,026	2,477,076
Faculty (Career-Track/Non-Tenured)	1,675,278	1,672,713	1,794,906	1,819,096	1,730,802
TOTAL FACULTY	3,649,269	4,281,100	4,413,769	4,575,122	4,207,878
Administrative/Staff	2,501,092	2,772,040	2,897,484	2,937,081	2,795,453
Graduate Assistants/Associates	463,424	576,517	527,589	593,913	521,572
Hourly Students	183,849	230,089	188,101	146,836	127,976
Other	22,933	39,007	40,330	51,361	56,328
TOTAL NON-FACULTY	3,171,298	3,617,654	3,653,504	3,729,191	3,501,328
TOTAL	6,820,566	7,898,754	8,067,272	8,304,313	7,709,206

Notes

1. The Other employee category consists of professional, academic professional and postdoctoral scholar labor activity.
2. The amounts to the left include salary/wages and ERE/benefits (including tuition remission for graduate assistants/associates).
3. In FY 21, a reduced pay furlough program was instituted by the university on most faculty and staff positions. This program was implemented for the first six months of the fiscal year (July 2020 to December 2020).

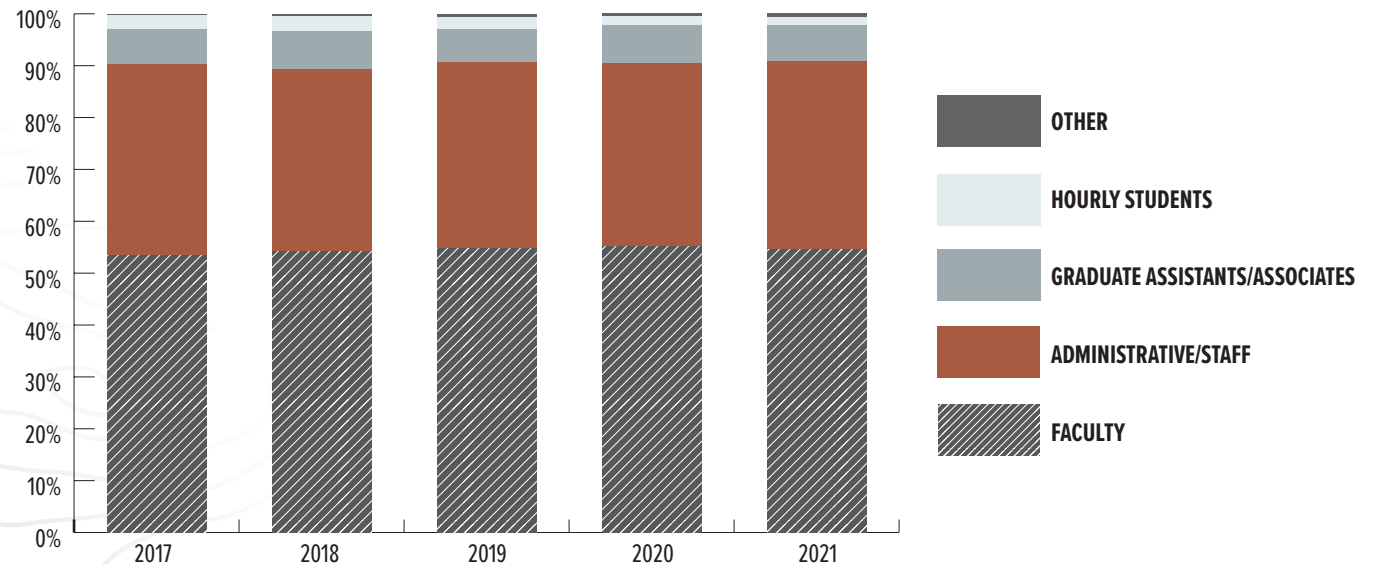
Percentage of Total CAPLA Personnel Expenditures 2017-2021

EMPLOYEE CATEGORY	FISCAL YEAR				
	2017	2018	2019	2020	2021
Faculty (Tenured/Tenure-Eligible)	28.9%	33.0%	32.5%	33.2%	32.1%
Faculty (Career-Track/Non-Tenured)	24.6%	21.2%	22.2%	21.9%	22.5%
TOTAL FACULTY	53.5%	54.2%	54.7%	55.1%	54.6%
Administrative/Staff	36.7%	35.1%	35.9%	35.4%	36.3%
Graduate Assistants/Associates	6.8%	7.3%	6.5%	7.2%	6.8%
Hourly Students	2.7%	2.9%	2.3%	1.8%	1.7%
Other	0.3%	0.5%	0.5%	0.6%	0.7%
TOTAL NON-FACULTY	46.5%	45.8%	45.3%	44.9%	45.4%

Note

1. The Other employee category consists of professional, academic professional and postdoctoral scholar labor activity.

CAPLA Personnel Expenditures: Operating Wages + ERE



WONDER MAKES US ENGAGE.

CONNECT WITH CAPLA

As an alum, community partner or friend of CAPLA, your experience can have a major impact on our students—providing insight and inspiration as they prepare to take on life after college. Connect with us to:

1. Provide Career Advice

Serve as an information resource and guide for a CAPLA student or alum.

2. Host Students or Alumni

Host a group of CAPLA undergraduate or graduate students or alumni at your place of business to help students learn more about careers and specific industries.

3. Employ Our Students

Open the door for a CAPLA student to obtain an internship or a full-time job at your firm.

4. Serve as an Externship Host

Allow a CAPLA student to shadow you so they gain an understanding of your field and the world of full-time work.

5. Be a Guest Speaker

Share your experiences and insights in the classroom, at a student organization meeting or at a college-wide event.

6. Mentor Our Students or Young Alumni

Help guide CAPLA students or alumni through choices as they develop interests and expertise and start taking steps towards life after graduation.

7. Serve as a Panelist

Interact with groups of CAPLA students and other professionals by offering your insights and experiences as part of industry-specific panels.

8. Partner with CAPLA on Design/Build

Take advantage of our faculty expertise and student ambition for approved design/build projects.

9. Pay It Forward

Your tax-deductible gift can make an impact on a student, assist with faculty research and help develop programs within the college.

10. Tap into CAPLA Research and Creative Scholarship

Utilize CAPLA faculty research or design expertise for a business or community project.

VISIT [CAPLA.ARIZONA.EDU/CONNECT](https://capla.arizona.edu/connect) TO GET INVOLVED TODAY.



THE CAMPAIGN

TO REIMAGINE AND REINVIGORATE THE CAPLA WEST BUILDING

THE PROJECT

With a 30% increase in undergraduate student growth over the past five years, it's time to transform the CAPLA West Building into one of the nation's premier post-COVID learning spaces for design students. With your support, our reinvigorated building will be more energy-efficient, healthy and adaptable—a showcase space where faculty and students can build a changing world.

THE BENEFITS

Expanded, Adaptable Studios—upgrades will provide much-needed additional studio space that will inspire the learner and teacher with an environment that is light-filled, accommodating different instructional configurations and creating a foundation for future innovative building phases.

Air Quality and Handling—we will add a new north curtain wall with fully automated operable window systems and energy recovery ventilation, allowing for vastly improved air quality and the use of natural ventilation.

Learning Laboratory—renovated spaces will serve as pedagogical tools for our faculty and students, allowing for data collection and real-time monitoring of healthy indoor environments.

THE GOAL

\$8 MILLION

Plan your support now by contacting Angie Smith, director of development, at angiesmith@arizona.edu or 520-621-2608.



THE UNIVERSITY OF ARIZONA

College of Architecture, Planning
& Landscape Architecture

BUILDING A CHANGING WORLD.

CAPLA.ARIZONA.EDU