CED FRONTIERS STRATEGIC PLAN

Initiated in 2012, CED Frontiers is a 21st century vision for the future of CED. Comprised of our mission and values, as well as six key goals and game changing initiatives, it provides a roadmap to prioritize activities and resources for growth, enabling the college to more keenly respond and apply next-generation environmental design solutions to the issues we face.

The Plan’s six Strategic Initiatives create clear and actionable blueprints for the three defining rubrics under which they fall.

Extending The Reach of Research & Creative Practice

Initiative 1 | Research Impact
On a consistent basis, CED research sets the pace for advancements across many sectors and fields of study locally, nationally, and worldwide.

Initiative 2 | Design & Technology Lab
CED is dedicated to ensuring access to the most innovative technologies available, empowering students and faculty to shape urban environments of the future.

Creating Inclusive & Cross-Disciplinary Pedagogy

Initiative 3 | Diversity Platforms
It is imperative to help the CED community explore and celebrate the value of our diverse community while calling attention to the systemic injustices detrimental to us all.

Initiative 4 | Curriculum Crossroads
By designing curriculum that reaches across departments, colleges, and fields, CED seeks to promote an interdisciplinary approach to solving today’s most pressing problems.

Building Community Spaces & Common Ground

Initiative 5 | Flex Studios
To stimulate intellectual exploration and hands-on learning, CED creates key locations and dynamic studio spaces in Wurster Hall that encourage the imagining of creative solutions.

Initiative 6 | Networked Spaces
Networked spaces at CED offer the opportunity for students, faculty, and staff alike to foster meaningful interactions, build community, and realize new collaborative potentials.
As July 1st and the end of my term as dean of the College of Environmental Design approached, I spent some time reflecting on the past ten years.

It was a decade of social turmoil on campus and financial, administrative, and leadership challenges — presided over by no less than three chancellors! Turbulence is nothing new for Berkeley, but such circumstances shaped college priorities and tested CED’s ability to maintain academic excellence, teach and support students with diverse needs, recruit top-flight faculty, and produce scholarship, research, and creative practice of the highest caliber.

All of us — faculty, students, staff, alumni, and friends — should feel proud of our impressive list of accomplishments, which are detailed in this year’s Annual Report. Guided by a strategic plan, CED Frontiers, we recruited exceptional new faculty and talented students, created brand new academic programs, and worked to generate new revenue as our state-provided dollars shrank. We engaged hundreds of alumni who helped support the college through generous donations. Faculty, staff, and students won a plethora of prizes for research, design, teaching, advising, public service, equity and inclusion, and more. College services and student advising were reimagined and we fashioned an exciting new website. Many of Wurster Hall’s classrooms and studios were redesigned or renewed, and new facilities were built: the Digital Fabrication Lab, Wurster Gallery, Materials Store, 2nd Floor Student Hub, Rice & Bones Café, and Ong & Ong Plaza. Plus new elevators are coming soon!

I am deeply honored to have served as CED’s dean. I am also glad to have been a pioneer — as the first woman ever to lead our college. CED’s successes over the past decade have depended on the collective commitment and collaborative spirit of the entire CED community, for which I am extraordinarily grateful. Thank you.

Moving forward, I am thankful to Renee Chow for her willingness to serve as Acting Dean, and am delighted to welcome incoming Dean Vishaan Chakrabarti. I know he will lead with vision, creativity, and dedication, and with your inspiration and support, boldly take the College of Environmental Design to new levels of achievement of which we will all be proud.

Jennifer Wolch
William Wurster Dean, 2009–2019
Professor of City & Regional Planning
A YEAR IN REVIEW 2018–19

September
The opening ceremony for the He Jingtang Architecture Exhibition at the Environmental Design Library drew more than 150 people. Featuring video, photography, and intricate 3-D architectural models, the exhibit showcased the work of He Jingtang, renowned architect and professor at the South China University of Technology. Replicas of He’s work include the China Pavilion, Da Chang Muslim Cultural Center, and the Wenchuan Earthquake Epicenter Memorial Hall — a tribute to the people who lost their lives in the 2008 disaster. The exhibit transformed the central atrium of the library, offering visitors a rare look at architectural trends in a changing China.

October
Two student groups from the Department of Landscape Architecture & Environmental Planning at the College of Environmental Design were honored at the awards presentation ceremony during the ASLA Annual Meeting and EXPO in Philadelphia. The ASLA Student Awards honor the best in landscape architecture from around the globe. The CED student team of Julia Prince (M.L.A. ’20), Student ASLA and Benjamin Heim (B.A. Landscape Architecture ’17) received an honor award in Student Community Service, while the team of Derek Lazo (M.L.A. ’18), Student ASLA and Serena Lousich (M.L.A. ’18) received an honor award in the category of General Design.

November
Deanna Van Buren, award-winning architect and co-founder of Designing Justice + Designing Spaces (DJDS) received the 2018 Berkeley-Rupp Architecture Prize & Professorship. Van Buren is recognized as a national leader in formulating and advocating for restorative justice centers, a radical transformation of justice architecture. In addition to her urban design projects, Van Buren is also the co-founder of BIG Oakland, a co-working space supporting small minority- and women-owned firms in the architecture, engineering, and construction industries.

Van Buren begins her residency in fall 2019.

December
Affordable Housing Finance inducted Carol Galante, I. Donald Terner Distinguished Professor of Affordable Housing and Urban Policy and Faculty Director of the Terner Center, into their 2018 Affordable Housing Hall of Fame. Galante and three other honorees were acknowledged for developing thousands of affordable housing units, providing critical financing through thick and thin years, and advocating for better housing policies.
January

The annual Urban Planning Citation update for Scholarly Reputation and Metrics cited UC Berkeley as the [top planning program in North America](https://example.com), with the most mean and median citations among planning programs in the United States and Canada. Out of a group of 1,111 U.S. and Canadian planning faculty, UC Berkeley Professors AnnaLee Saxenian and Jennifer Wolch ranked third and fifteenth respectively.

February

### QS World University Rankings

QS World University Rankings ranked the University of California Berkeley third in North America and sixth worldwide in the “architecture/built environment” subject area for 2019. QS’s 2019 rankings of the top 200 universities evaluates programs according to academic reputation, employer reputation, research citations, and H-index — a way of measuring both the productivity and impact of the published work of a scientist or scholar. UC Berkeley is one of three U.S. universities that landed in the global top 10.

March

A number of CED alumni made headlines in March through their impressive achievements: alumna and member of CED’s Advisory Council [Lydia Tan](https://example.com) (B.Arch ’83) joined the Oakland A’s baseball team as Managing Director - Real Estate; architecture alumnus James Garrett Jr. received a [2019 AIA Young Architect Award](https://example.com); the architecture firms of Jeffrey Day (M.Arch. ’95) and Kevin Daly (B.Arch ’80) were among ten firms recognized by Architect Magazine in its [66th Annual Progressive Architecture Awards](https://example.com); and Rosalyne Shieh (M.Arch ‘99) and her firm Schaum/Shieh were recognized with an Architectural League of New York’s [2019 Emerging Voices Award](https://example.com).

April

CED students won a number of impressive accolades: the UC Berkeley team including Julia McElhinney (MRED+D ’19) won the sixth annual [Kellogg Real Estate Conference and Venture Competition](https://example.com); MRED+D student Harsh Jain and team won the [Pircher, Nichols & Meeks Joint Venture Challenge](https://example.com); Bianca Doerschlag, (M.Arch. ’19) and Brynn McKiernan (MRED+D ’19) were part of the Cal team taking home the Golden Shovel in the 30th Annual NAIOP SFBA Cal-Stanford Real Estate Challenge; and UC Berkeley students in the Interdisciplinary Graduate Certificate in Real Estate (IGCRE) program including James Conlon (M.C.P. ’18), Brian Goggin (M.C.P. ’18), Melissa Sandoval (M.Arch ’19), and Casey Alexander (M.Arch ’19) took first place in the [Bank of America/Merrill Lynch Housing Challenge](https://example.com), marking the 17th time Cal teams have won since its launch in 1992.

May

The National Academies of Science, Engineering and Medicine (NASEM) released a report co-written by Professor of City & Regional Planning and NASEM committee member [Daniel Rodriguez](https://example.com). The consensus report, entitled “Implementing Strategies to Enhance Public Health Surveillance of Physical Activity in the United States,” provides recommendations to enhance the monitoring and measuring of physical activity. Because most Americans do not get enough exercise, there is a need for systems that integrate measurement of behaviors (like walking) with assessment of environmental factors (like the walkability of communities) that influence physical activity.
CED AT A GLANCE 2018–19

Undergraduate Statistics

- **641** Total undergrads
- **423** Undergrads receiving financial aid (66%)

- Architecture / 59%
- Landscape Architecture / 10%
- Sustainable Environmental Design / 16%
- Urban Studies / 13%
- Individual Major / 2%

Graduate Statistics

- **195** Architecture graduate students
  - M.Arch. / 81%
  - M.S. / 4%
  - Ph.D. / 14%

- **99** Landscape Architecture & Environmental Planning graduate students
  - M.L.A. / 84%
  - Ph.D. / 14%

- **154** City & Regional Planning graduate students
  - M.C.P. / 81%
  - Ph.D. / 19%

- **15** Master of Urban Design graduate students

- **16** Master of Real Estate Development + Design (MRED+D) graduate students

Alumni Statistics

- **18,552** Total living CED alumni
  - Undergraduate degree only / 61%
  - Graduate degree only / 34%
  - Undergraduate and graduate degree / 5%

*Most recent data from AY 2017–18.*
3 departments

Architecture
City & Regional Planning
Landscape Architecture & Environmental Planning

13 degrees in:

Architecture (B.A., M.Arch., M.S., Ph.D.)
City & Regional Planning (B.A. Urban Studies, M.C.P., Ph.D.)
Landscape Architecture & Environmental Planning (B.L.A., M.L.A., Ph.D.)
B.A. Sustainable Environmental Design
Master of Urban Design
Master of Real Estate Development + Design
A DECADE OF INNOVATION 2009–19
BUILDING NEW ACADEMIC MAJORS & PROGRAMS

CED created three introductory summer programs to serve UC Berkeley and non-UC Berkeley participants interested in exploring various environmental design fields.

Summer [IN]stitutes, launched in 2009, offers post-baccalaureate career-discovery programs in architecture, landscape architecture, and sustainable city planning.

The embARC Summer Design Academy was created in 2012 to bring together high school students from diverse backgrounds to explore architecture, urban design, and sustainable city planning.

Focused on undergraduates, the Design Innovation for Sustainable Cities (DISC*) Summer Program began in 2013. The immersive five-week program explores interdisciplinary and multi-scalar approaches to designing more sustainable urban environments.

To date, over 1860 students have participated in CED Summer programs.

Recognizing that the emergent, multidisciplinary field of sustainability science is growing rapidly, CED created the new interdisciplinary undergraduate major in Sustainable Environmental Design. Currently led by Eric Cesal, the major offers students a critical understanding of the sustainability challenges facing urban regions locally and around the globe, and equips them with the tools essential to devising creative solutions. In its first year, the program attracted a cohort of 50 students, soon growing to over 100.

With major grants from the Mellon Foundation, CED established the Global Urban Humanities Initiative. In partnership with the UC Berkeley Arts & Humanities Division of the College of Letters & Science, the initiative brings together scholars and practitioners from the environmental design fields and multiple humanities disciplines to develop approaches that better respond to the complex problems facing today’s global cities and regions. The initiative offers undergraduate and graduate certificates, giving students the opportunity to work on projects locally and abroad through traveling studio courses.

CED launched a cross-campus graduate certificate and an undergraduate minor in Geographic Information Science & Technology (GIST). These programs enable specialized, multidisciplinary training and research opportunities in various emerging areas of this rapidly growing field. The certificate program gives students the opportunity to receive explicit recognition of specialization in GIST ensuring they are well positioned to compete for the most desirable jobs in geospatial technology, both in academia and in industry.

In collaboration with the Haas School of Business and Berkeley School of Law, CED established the Interdisciplinary Graduate Certificate in Real Estate (IGCRE). The certificate gives students the opportunity to understand how law, business, and design intersect in creating the built environment.

All 3 of CED’s professional graduate programs are ranked #1 among all public university peers.
The Berkeley Certificate in Design Innovation officially became available to students across the Berkeley campus, based on the belief that innovation will come from the integration of a wide range of different disciplines. Created in partnership with the College of Engineering, College of Letters & Sciences—Arts & Humanities Division, and the Haas School of Business, the program connects the design approaches and disciplines of the four academic units to give students the creative and critical means to innovate and design from idea to execution.

Recognizing the need to educate real estate professionals who understand the power of design to make cities sustainable, equitable, and prosperous, CED created the Master of Real Estate Development + Design (MRED+D). MRED+D is an 11-month interdisciplinary degree designed to train the next generation of developers to understand that innovative design, good urbanism, and concern for social impact are essential for creating places of lasting social, economic, and environmental value. Students are exposed to ideas from adjacent fields and work on real-world teams with practicing planners and designers. Beginning with an inaugural cohort of 16 students, MRED+D is on course to become a leading program in the field of real estate design and innovation nationwide.

The Global Leadership Executive Education Program launched, offering a series of custom training courses developed for government, NGO, and private sector groups worldwide on topics such as affordable housing, sustainable urbanism, and smart cities. Each program’s curriculum is a carefully calibrated mix of interactive seminars, site visits, and skill-building workshop sessions. Program participants leave better prepared to become the next thought leaders and game changers in the shaping of our built environment.

Campus and UC Regents approved the new Master of Design (MDes) program, developed in partnership with the College of Engineering. The self-supporting graduate degree program, starting in 2020, will focus on emerging technology and the social practice of design, tapping into the expertise of faculty from both colleges. Students graduating from this professional masters program will be poised for careers in areas such as artistic production, technological innovation, product design, and design interventions in cities.

CED was founded with the conviction that planning and designing the built environment required collaboration between disciplines. This is more true today that at any time in the past. Yet despite long-standing concurrent degree programs within the college, in 2009 there were only a few collaborative academic programs — created decades ago — that regularly attracted students. Thus a major strategic goal was to create additional new academic programs that addressed emergent areas of student interest. These included minors and certificates in geographic information science and technology, design innovation, urban humanities, and real estate, all in collaboration with academic partners across campus. Within the college, a new cross-departmental major and two new graduate professional degrees were established. In addition, in order to build a diverse pipeline of prospective students as well to generate revenue to support the college, CED launched a suite of summer programs, attracting almost 2,000 students from around the world. And beginning in 2018, executive education programs were also offered, in collaboration with the Goldman School of Public Policy.
CED introduced a number of innovative and interdisciplinary studio courses for undergraduate and graduate students. Here are just a few made possible through unique collaborations.

**2011** Sponsored by the National University of Singapore’s School of Design and Environment, CED was invited to compete in the Vertical Cities Asia International Design Competition. Over a series of five years, student teams from universities around the world were challenged to rethink and develop innovative solutions for a rapidly urbanizing Asia. A CED team of seven graduate students took second place in the 2015 competition.

**2014** An interdisciplinary group of DCRP students traveled to Talca, Chile to collaborate with Universidad Catolica del Maule students in a 2-semester city planning studio focused on rebuilding the city. The Center for Urban and Regional Studies at UCM and DCRP established an international research collaboration to explore the role civil society might play in redeveloping Talca.

**2015** The Art + Village + City Research Studio, part of the Global Urban Humanities Initiative, brought together a cross-disciplinary team of 12 CED and UC Berkeley students to investigate a wide range of urban art villages in China’s Pearl River Delta, and map the diverse connections between art and urbanism distinct to the region. The studio culminated in exhibits in Wurster Gallery and the 2015 Shanghai West Bund Biennale.

**2016** The James R. Boyce Affordable Competition Housing Studio was initiated. Led by Carol Galante, I. Donald Terner Distinguished Professor of Affordable Housing and Urban Policy and Faculty Director of the Terner Center, the studio gives students the opportunity to work in interdisciplinary teams and learn from leading practitioners to design solutions targeting the affordable housing crisis. Funded through a gift from CED alumnus James R. Boyce (M. Arch. ’67), the studio culminates in a juried competition and symposium.

**2016** The Mexico City: Materiality, Performance and Power Studio, another Global Urban Humanities interdisciplinary research endeavor, focused on Mexico City as a composite city of palimpsest histories and possible futures. A subsequent book in English and Spanish included student projects from the project-based seminar and studio field trip to Mexico City.

**2018** CED initiated Pacific Rim Urban Resilience by Design — a unique collaboration between the University of Hong Kong Faculty of Architecture and CED. The 4-year multi-disciplinary project combines research seminars and design studios with a focus on improving Pacific Rim urban resilience through urban policy, planning, and design to help metropolitan regions surrounding the Pearl River Delta and the San Francisco Bay adapt to climate change.

**2018** Inspired by Oakland’s tragic Ghost Ship fire, the first Community Development Studio focused on artist housing was launched. Funded by a generous grant from Gregg and Laura Perloff and led by former Oakland Assistant City Administrator Claudia Cappio in collaboration with the non-profit intermediary Safer DIY Spaces, the initial studio sought to address life-safety issues in nonconforming live-work warehouse spaces without displacing artist residents essential to a vital urban culture. A second studio is planned for fall 2019.
College administration services were reorganized to improve the student experience and faculty support, including the establishment of the new Office of Undergraduate Advising, as well as a new Infrastructure & Information Technology division, leading to the renovation of departmental and staff offices, and renovations and technology upgrades for computer labs.

CED Diversity Platforms, a CED Frontiers initiative, launched its grants program designed to support, highlight, and celebrate the diverse student body at CED and to communicate a strong commitment to inclusivity and equity in Wurster Hall through co-curricular programs. With philanthropic support from the Arcus Foundation, CED bestowed its first group of Diversity Platform awards to faculty, students, and staff in the 2016–2017 school year. Through this program, multiple critical projects have since been funded.

CED Career Services Office opened, offering personalized career counseling and advice regarding career exploration, internships, job search strategies, graduate school, and LinkedIn assistance/profile reviews for students. In addition, the center hosts an annual CED Career Fair and a wide variety of professional development workshops on topics such as licensure, internships, professional opportunities, alternative careers, and applying for graduate school.

STRATEGIC PERSPECTIVE

Berkeley is renowned as the preeminent public research institution in the world. A major strategic goal was to make the CED student experience as exceptional as its research and graduate programs. In addition, graduate students clamored for more opportunities for cross-departmental studios as a means to prepare for the world of practice. Over the course of the decade, the college proactively worked to reorganize and expand undergraduate advising, establish a career services office, offer cross-departmental graduate studios on a regular basis, and establish a co-curricular platform for programs related to diversity and inclusion. In addition, the underutilized 2nd floor lobby of Wurster Hall was transformed into a popular student hub, with casual seating and workspace, and a video wall with information about the college and upcoming events.
A DECADE OF INNOVATION 2009–19
SUPPORTING AND GROWING FACULTY LEADERSHIP

New chairs established through philanthropic gifts

2010 A $1 million gift from The Arcus Foundation, led by alumnus Jon Stryker, established the Arcus Chair in Gender, Sexuality & the Built Environment. The chair focuses attention on environmental design that respects differences in gender and sexuality and confronts inequity in city building. Professor of Architecture C. Greig Crysler has held the Chair since its inception.

2010 The Carmel P. Friesen Chair in Urban Studies was endowed by a $1 million gift from alumni Carmel P. and Howard R. Friesen. The Friesen Chair supports faculty teaching and research on cities and urbanization. Karen Chapple, Ph.D., Chair and Professor of City & Regional Planning, currently holds the Friesen Chair.

2011 A $1 million gift from Hong Kong architect and developer David K. Woo (ARCH ’67) endowed the David K. Woo Chair in Environmental Design. The Chair recognizes and supports the work of an eminent faculty member in CED. Professor Walter Hood was appointed as the inaugural Chair.

2012 The Robert J. & Millicent C. Lalanne Chair in Real Estate Development, Architecture and Urbanism was established to provide the broad design perspective, interdisciplinary knowledge, and leadership skills needed to solve emerging urban development challenges. The Lalanne Chair is currently held by Associate Professor of Architecture and Urban Design, Chris Callot.

New faculty welcomed to the departments of Architecture, Landscape Architecture, and City & Regional Planning

Margaret Crawford
Professor, ARCH

Tom Buresh
Professor, ARCH

Luisa Caldas
Professor, ARCH

Carolina Reid
Assistant Professor, DCRP

Charisma Acey
Assistant Professor, DCRP

Greg Castillo
Associate Professor, ARCH

Karl Kullman
Associate Professor, LAEP

Stefano Schiavon
Associate Professor, ARCH

Kristina Hill
Associate Professor, LAEP & Urban Design

Kyle Steinfeld
Associate Professor, ARCH

Andrew Atwood
Assistant Professor, ARCH

2009–19
In 2009, Ted and Doris Lee endowed the Theodore B. and Doris Shoong Lee Distinguished Professorship in Real Estate Law and Urban Planning to foster interdisciplinary collaboration between CED and Berkeley Law. The Professorship funds a Distinguished Visiting Professor who is a practitioner to teach one graduate course per year with a focus on the intersection of real estate, urban planning, and land use/environmental law. San Francisco Foundation CEO Fred Blackwell has held the Professorship since 2016.

Established in 2014, the Robert S. Cornish Endowed Chair in Regional Planning funds a visiting professorship in regional planning with a distinguished background in practice and a clear interest in the area of integrated regional planning. SPUR President and CEO Gabriel Metcalf became the inaugural Chair in 2016.

In 2012, the Berkeley-Rupp Professorship & Prize was established. Funded by a bequest from alumna Sigrid Rupp, the biannual Professorship & Prize awards $100,000 and a semester professorship to an architect who has made significant contributions to promoting the advancement of women in architecture, with an emphasis on sustainability and community. Recipients include Deborah Berke (2012), Sheila Kennedy (2014), Carme Pinos (2016), and Deanna VanBuren (2018).

Since 2009, the Howard A. Friedman Visiting Professorship in the Practice of Architecture Fund has supported 27 distinguished visiting architecture faculty. Holders contribute to increased understanding of building delivery systems and their relationship to design, function, technology, time, money, and cultural and social responsibility.

Over the past ten years, CED has welcomed 11 Joseph Esherick Endowed Fund Visiting Professors in Architecture. The Professorship is granted to architects with a distinguished background in practice and significant contributions to the making of buildings that integrate the influences of building technology with their design outcomes.
Faculty Books

**ARCHITECTURE**


**LANDSCAPE ARCHITECTURE & ENVIRONMENTAL PLANNING**


Chip Sullivan, *Drawing the Landscape* (2013); *Cartooning the Landscape* (2016)

**Faculty Awards**

Of the many of honors, awards, and citations that CED faculty have received since 2009, a few stand out:

2009

- Walter Hood: Cooper-Hewitt National Design Award

2010

- Paz Gutierrez: National Science Foundation EFRI-SEED Award

2011

- Teresa Caldeira: Guggenheim Fellow
- David Meyer: ASLA Landmark Award

2012

- Richard Hindle: Graham Foundation Award

2013

- Mary Comerio: United Nations Green Star Award
- Michael Dear: Association of American Geographers Globe Book Award
- Nicholas de Monchaux: Rome Prize
- Kyle Steinfeld: IDEA Studio Fellowship
- Mathias Kondolf: Fellow of the Landscape Architecture Foundation
- Stefano Schiavon: Ralph G. Nevins Physiology and Human Environment Award
The production of new knowledge — whether generated through scholarship or creative practice — is one of the university’s core missions. Over the decade, CED’s faculty published a formidable number of books, articles, and technical/policy reports in diverse areas — including design history and theory, design and computation, sustainable and healthy cities, urban transportation, landscape architecture, and urban design. Many won prestigious book and article awards and research fellowships, and their publications influenced local, state, and national policy. Notably, design faculty received a variety of important building commissions, and their conceptual and built work was rewarded at the highest levels, receiving among other recognitions the Rome Prize and National Design Awards.

**CITY & REGIONAL PLANNING**

*Teresa Caldeira*, *Espacio, Segregación y Arte Urbano en el Brasil* (2010)


*Malo Hutson*, *The Urban Struggle for Economic, Environmental and Social Justice* (2016)


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<th>Year</th>
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<tr>
<td>2014</td>
<td>Harrison Fraker</td>
<td>Topaz Medallion</td>
<td>for Excellence in Architectural Education</td>
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<td>2015</td>
<td>Ron Rael</td>
<td>Architectural League of New York Emerging Voice</td>
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<td>2016</td>
<td>Jennifer Wolch</td>
<td>Beverly Willis Architecture Foundation</td>
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<td>2016</td>
<td>Iryna Dronova</td>
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<td>2016</td>
<td>Gail Brager</td>
<td>AIAASF Community Alliance Education Award</td>
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<td>2017</td>
<td>Carolyn Galante</td>
<td>Affordable Housing Hall of Fame</td>
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<tr>
<td>2018</td>
<td>Carolina Reid</td>
<td>Journal of Urban Affairs Best Article Award</td>
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<tr>
<td>2014</td>
<td>Margaret Crawford</td>
<td>Fulbright Senior Scholar Research Fellowship</td>
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<td>2015</td>
<td>Louise Mozingo</td>
<td>Society of Architectural Historians Elisabeth Blair MacDougal Book Award</td>
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<td>2016</td>
<td>Andrew Atwood / First Office</td>
<td>ACSA Distinguished Professor Award</td>
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<tr>
<td>2016</td>
<td>Dana Buntrock</td>
<td>American Architecture Award</td>
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<tr>
<td>2016</td>
<td>Raveevarn Choksombatchai</td>
<td>American Architecture Award</td>
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<tr>
<td>2018</td>
<td>Karen Chapple</td>
<td>ACSA John Friedmann Book Award</td>
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<tr>
<td>2018</td>
<td>Lisa Iwamoto</td>
<td>Architectural Record Women in Architecture Award</td>
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A DECADE OF INNOVATION 2009–19
SHAPING THE FUTURE THROUGH RESEARCH

Center for the Built Environment (CBE) launched a suite of building performance tools, many of them freely available online, including a thermal comfort tool and occupant survey, a thermal comfort visualization database, and engineering design tools for specialized HVAC systems to enable the investigation of building science questions.

Center for Resource Efficient Communities (CREC) provided leadership in the National Science Foundation Engineering Research Center on Re-Inventing the Nation’s Urban Water Infrastructure (ReNUWIt), a ten-year NSF-funded center focusing on innovative technology development and infrastructure planning for urban water systems.

Environmental Design Archives Transforms

6,772 reference questions fielded
187 collections acquired
2,496 instruction session participants

2018 Chris Merino took over leadership of the Environmental Design Archives, succeeding curator Waverly Lowell who retired after serving 20 years as the visionary force behind the growth of the Archives.

2,494 in-person research visits from scholars around the world
13,083 new items digitized per year

2009–19

The Urban Analytics Lab was launched in 2012. Building on Professor Paul Waddell’s pathbreaking simulation tool, UrbanSim, the Lab contributed to modeling alternative land use and transportation for the Bay Area in response to the greenhouse gas emissions reduction bill, SB 375, and to study other major cities of the world.

2012–19 CREC led three major research studies for the California Air Resources Board on low- and zero-carbon buildings, to inform state policy and regulation to reduce building-related greenhouse gas emissions.

In the wake of the severe affordable housing crisis in the Bay Area, Professor Karen Chapple established the Urban Displacement Project (UDP). UDP conducts community-centered, data-driven, applied research and development actionable policies for more equitable and inclusive futures for cities.

With a $1 million investment from the Capital One Foundation and others, Y-PLAN expanded to nine U.S. cities and six countries. Since 2010, Y-PLAN has engaged 13,000+ students, 150+ educators, and dozens of schools, teachers, and civic partners to empower youth to create change in their community.

The Institute of Urban and Regional Development (IURD) conference “Transit and Cities” helped shape research agendas tied to sustainable mobility, including work on micromobility and Bus Rapid Transit.
Donald I. Terner Distinguished Professor of Affordable Housing and Urban Policy, Carol Galante, founded The Terner Center for Housing Innovation. The Center leverages applied research and best practices to inform and advance innovation in the planning, financing, design, and development of the built environment.

IURD and Professor Karen Chapple hosted the Reducing Inequality in a Sustainable World Conference, bringing together economists, sociologists, ecologists, anthropologists, planners, and policymakers to outline issues of inequality and sustainability and discuss potential solutions.

Three grants totaling $8 million funded core CBE research in radiant systems, task/ambient approaches to workplace comfort, and new technologies for monitoring and control of commercial buildings including the development of low-cost ultrasonic airflow sensors and the next generation of CBE’s low-energy personal comfort systems.

Professor Daniel Chapman published “Analyzing the Economic Benefits and Costs of Smart Growth Strategies,” a CARB-funded study of SB 375 impact on municipalities and households in California.

An award of $1.9 million from the California Energy Commission enabled CBE to develop and evaluate ways to integrate commercially available “smart” ceiling fans and communicating thermostats to improve energy efficiency and comfort in multi-family residential and small commercial buildings.

2016–18 CREC developed assessment methodologies for social, economic and environmental co-benefits of California Climate Investments.
CED, the Berkeley Center for New Media, and the Terner Center for Housing Innovation become key players leading a diverse, multidisciplinary team — The All Bay Collective (ABC) — chosen to participate in the Resilient By Design Bay Area Challenge. The yearlong collaborative research and design project brought together local residents, public officials and local, national, and international experts to develop innovative solutions to climate change issues in the Bay Area. Partnering with California College of the Arts and several professional firms, ABC leveraged deep professional expertise with the innovation energy of students to address this emerging challenge.

Environmental Design Library Expands

2011 After diligently leading the Environmental Design Library for nearly 30 years, Elizabeth Byrne retired, handing over the reins to David Eifler. The Elizabeth Byrne Fund was established in her honor.

- 30k volumes added
- 45 exhibits displayed
- 50+ author and artist events attended by more than 2,300 visitors
- 10-person conference room, recording room, and expanded seating created.
Four New Research Labs Created

2010  Professor of City & Regional Planning Paul Waddell established the Urban Analytics Lab to leverage data science and 3-D visualization to understand the dynamics shaping communities and pursue research in advanced urban data science technologies and approaches to influence a range of urban issues.

2015  Ron Rael created PrintFARM Laboratory (print Facility for Architecture, Research, and Materials) for the development of 3-D printing innovation, and unveiled “Bloom,” the first and largest powder-based 3-D printed cement structure built to date.

2017  The Virtual (VR) and Augmented Reality (AR) Lab at CED, directed by Professor of Architecture Luisa Caldas, was launched to elevate the conversation around AR/VR and the impact it has on how we build, what we build and where we build.

2019  The Terner Center for Housing Innovation, led by faculty director Carol Galante, in partnership with the Chan Zuckerberg Initiative, announced the launch of the Housing Lab, a new accelerator program that aims to nurture bold new approaches to the nation’s housing challenge. The program provides support to early-stage entrepreneurs working on critical issues across the housing sector. The application portal is now accepting ideas for kickstarting a more cost-effective, inclusive, and modernized housing industry.

2020  Renee Chow is now leading a group of faculty to create a series of cross-departmental studios on metropolitan resilience in collaboration with the University of Hong Kong, focusing on areas such as energy, water, transportation, and open space. In addition, college faculty established three new innovation labs on 3-D printing, augmented/virtual reality, and urban data science.

STRATEGIC PERSPECTIVE

CED faculty took leadership roles in key public policy arenas, particularly housing and urban resilience. The Terner Center for Housing Innovation, a collaboration between CED and the Haas School of Business, was established under the leadership of Carol Galante, quickly gathering momentum, conducting actionable research, and gaining policy influence. Participating in the high profile Resilient by Design Bay Area Challenge, Kristina Hill and Nicholas de Monchaux worked with other faculty to organize a major set of studios and seminars to engage students in understanding and finding ways to contend with localized impacts of sea level rise, especially in low income communities most vulnerable to climate change. Similarly, Renee Chow is now leading a group of faculty to create a series of cross-departmental studios on metropolitan resilience in collaboration with the University of Hong Kong, focusing on areas such as energy, water, transportation, and open space. In addition, college faculty established three new innovation labs on 3-D printing, augmented/virtual reality, and urban data science.
A DECADE OF INNOVATION 2009–19
ENHANCING THE WURSTER HALL EXPERIENCE

2009

Wurster Auditorium was refurbished to include new carpeting, furniture, paint, and upgraded audio-visual technology.

2011

The new Wurster Gallery opened with an exhibit on William Wurster’s Residential Architecture, curated by Professor of Architecture Emeritus Richard Peters and alumna Caitlin Brostrom.

2014

CED’s Digital Fabrication Lab opened. A bequest from Vernon DeMars (BA ’31), along with in-kind donations of design and construction expertise from alumni Mark Cavagnero, of Mark Cavagnero Associates Architects, and Tom Mead with his team from WebCor Builders, gives CED students and faculty access to a variety of 2D and 3D digitally controlled equipment.

2015

CED’s Materials Store opened. The store operates as a service to CED students, offering a variety of building materials needed for classes, studios, and graduate research. Over time, the Store continues to expand its recycled materials and supplies uniquely required by CED students.

2017

Wurster Hall experienced welcome improvements, including a renovated 7th Floor (part of CED Frontiers’ Flex Studio Initiative), designed by alumnus Kevin Daly of KDA; and renovation of rooms 170 and 172, designed by Professor Raveevarn Choksombatchai and her students. These projects were made possible by philanthropic gifts from generous UC Berkeley alumni, with help on 170 and 172 from Herman Miller.

In support of CED Frontiers’ Networked Spaces Initiative, a redesign of Wurster’s second-floor lobby was completed. Designed by Professor Architecture Raveevarn Choksombatchai and her firm VeeV Design, the new multifunctional space features a video wall, lounge, and workspace areas.
A priority of CED Frontiers’ Networked Spaces Initiative, the new cafe, Rice & Bones, created by former CED Architecture student and renowned chef Charles Phan, opened along with the new Ong-Ong Plaza, made possible by a generous gift from alumnus Boon Tse Ong.

Wurster Auditorium received a much-needed audio upgrade thanks to a generous donation from Charles and Trudy Salter. Alumnus and acoustics faculty Charles Salter, founder of Charles M. Salter Associates, led the redesign providing a state-of-the-art acoustical experience for the hall’s audiences.

Renovated studio-classrooms 489, 491, and 494 opened, creating more flexible and usable space for CED students across all disciplines.

Bill’s Beach, an installation in Wurster’s second-floor lightwell was designed by alumnus Peter Walker of PWA Landscape Architecture to memorialize LAEP alumnus Bill Calloway.
CONNECTING AND BUILDING A NETWORK OF SUPPORT 2009–19

Alumni are the true legacy of the College of Environmental Design.

They are an amazing community of talented, innovative, and thoughtful people whose lives were shaped by their education at Wurster Hall. In turn, they have shaped CED’s future through generous philanthropic contributions as well as by mentoring students, supporting faculty, and providing sage counsel to college leaders.

Over the past decade, CED developed new strategies to more actively engage our alumni in the life of the college and encourage support. Along with establishing the Dean’s Advisory Council, we’ve provided a suite of publications, events, and an online platform — WursterLife.com — that bring to life the achievements and experiences of CED and help the community stay connected to the college and each other.

In addition to alumni, the college has many friends who contribute in numerous ways to the richness of the educational experience CED provides. We are pleased to count them as part of our college community.

$34,028,332  $5,172,424
TOTAL GIVING 2010–2019  ANNUAL FUND TOTAL

Total Giving by Fiscal Year
Annual Fund (contributions include hard credit gifts, straight pledges, recurring pledges, realized bequests and matching gifts)
* Annual Fund data unavailable
Jon Stryker (M.Arch ’89) received the first Catherine Bauer Wurster Award for Social Practice, which recognizes the significant achievements of a CED alumnus toward advancing social justice, environmental conservation, and fair urban development. Sam Davis (B.Arch ’69) received the 2018 award.

The college’s External Relations Office was renamed and reorganized into the “Development + Alumni Relations Office” and the functions of fundraising, alumni engagement, and communication were integrated to support the college’s philanthropic goals and alumni priorities.

The College of Environmental Design initiated its CED Website Redesign Project, re-envisioning the strategic approach, content, design, and functionality of the college’s main website to more actively engage, inform, and inspire prospective students, donors, and the entire CED community.

CED participated in Cal’s first Big Give, a 24-hour online fundraising event that gives alumni, parents, students, faculty, staff, and friends the chance to come together to support the College of Environmental Design. In 2019, Big Give raised over $100,000 for the CED Diversity Fund for Student Support.

Proposed and supported by the CED Students of Color (CEDSOC), the Diversity Fund for Student Support was launched with the purpose of securing philanthropic resources to recruit, support and retain high-achieving undergars and grads who demonstrate academic interest and leadership in topics such as race, gender, and social equity in the built environment.

WursterLife.com was launched — an online alumni relations platform that connects CED students, alumni, staff, faculty, and friends of the college. The platform is a vibrant network tapping into the talent and support of the CED community, opening up opportunities for student mentorship, internships and jobs, and building stronger relationships with the college.

The first annual CED Circus took place. The all-day, interactive event highlights the extraordinary work produced by students and faculty, and connects students with Distinguished Visiting Fellows — alumni, emeriti faculty, and highly-regarded environmental design professionals who are some of CED’s most loyal supporters.

Inviting the CED community to reconnect and celebrate the achievements of Distinguished Alumni, CED also launched Soirée in conjunction with Circus. The annual event provides crucial support for the college and its students, and helps maintain CED’s status as a world-class design institution. A record 175 guests attended the most recent 2018 Soirée, which raised over $130,000 for the CED Fund.
A CHANGING FINANCIAL LANDSCAPE 2009–19

As a public university, UC Berkeley is committed to keeping education accessible and fees affordable.

While large budget deficits and state spending cuts triggered a 50% increase in undergraduate in-state tuition between 2009 and 2011, tuition over the subsequent eight years held more or less constant with just a $222 increase from 2011–19. Undergraduate non-resident supplemental tuition over the decade increased by 34% (2009–2019). However, neither state funding nor tuition has been able to keep up with increased costs.

Financial Impact

The financial impacts for CED are striking. State funding has been declining over time, with the state providing 50% of UC Berkeley’s budget in 1985 compared to 13% today. After reductions of campus support to CED of over $1.5 million between 2001–02 and 2008–09, support continued to fall rapidly over the next decade. Between 2009–10 and 2018–19, campus support fell from 85% of the college budget to only 63% — a drop of 22 percentage points. During this time, costs continued to increase with inflation, while our student population grew 17%, along with needs for new classroom and fabrication technology and student financial support.

Expenses

2009–10 $13.5 million
- Academic Salaries, $6,497,589, 48%
- Staff Salaries, $2,211,631, 16%
- Benefits, $2,625,022, 20%
- Supplies & Materials, $591,002, 4%
- Scholarships & Fellowships, $461,274, 4%
- Other (travel, meetings, services), $1,084,087, 8%

2018–19 $26.5 million
- Academic Salaries, $10,594,934, 40%
- Staff Salaries, $4,473,215, 17%
- Benefits, $5,102,288, 19%
- Supplies & Materials, $849,357, 3%
- Scholarships & Fellowships, $3,327,571, 13%
- Other (travel, meetings, services), $2,108,412, 8%
Revenue Generating Activities

Early on, CED decided to grow revenue to survive the ongoing resource reductions, rather than continue to reduce an already lean budget. First, to ensure the high quality of our professional graduate degree programs, the college followed the lead of other professional schools on campus and instituted the Professional Degree Supplemental Tuition in 2010–11. The introduction of these fees, while painful, was a necessary measure to provide the resources to invest in the long term health of our graduate professional programs. The resulting resources enabled CED to hire a career services advisor to support the professional programs, provide instructional support to classes, and offer robust IT and infrastructure services to students.

CED also launched a variety of new programs. One was a suite of summer career-discovery programs, followed by an executive education program and an undergraduate international partnership program with University Extension. An agreement with campus allowed us to modestly increase the size of the graduate professional degree programs and share in the resulting tuition revenue. Then, in 2018, we started a self-supporting professional graduate degree program in Real Estate Development + Design (MRED+D). By 2018–19, these programs together generated $2.5 million in gross revenue, which after program expenses, yielded $1.5 million for the CED budget. Projected revenues will rise as the MRED+D program expands to its target size, and after the 2020 launch of the new self-supporting Master of Design professional graduate program.

Another critical source of resources has been philanthropy. With approximately 25,000 total alumni and 18,000+ living alumni, we knew that it would be vital to reconnect our alumni to the college, our faculty, and students — and to each other. Key to this broad strategy was to create a Dean’s Advisory Council to serve as ambassadors to the alumni community; redesign the college website and begin delivering a robust set of new and other communications to alumni; introduce the Circus and Soirée events to bring alumni back to campus; and launch WursterLife, our on-line platform for alumni and student interaction. This strategy has been successful. Participation in college events and activities has been steadily growing, and so has giving. In 2009–10, the college raised $1.6 million in gifts and pledges, rising by 206% to $4.9 million by 2018–19. Donative funds (private gifts plus endowment payout) as a share of total revenue rose from 12% to 15% over the decade.

Revenues generated in all of these ways were used to support basic college operations, particularly staffing, which grew in size over the decade from 56 to 68. As the student population grew, existing services (such as advising) were improved and expanded, and new programs were launched. Revenues were also utilized to enhance programs, technology, and facilities. Very importantly, our commitment to student support expanded from 4% to 13% of college expenditures — an allocation critical to attracting the very best students to CED.

Revenue Sources

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<thead>
<tr>
<th>2009–10</th>
<th>$12.2 million</th>
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<tbody>
<tr>
<td>Campus Support, $10,427,382, 85%</td>
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<tr>
<td>Endowment Payouts, $1,051,585, 9%</td>
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<tr>
<td>Private Gifts, $413,829, 3%</td>
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<tr>
<td>Sales and Services, $320,847, 3%</td>
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<tr>
<th>2018–19</th>
<th>$28.8 million</th>
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<tr>
<td>Campus Support, $18,127,715, 63%</td>
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<tr>
<td>Endowment Payouts, $2,060,287, 7%</td>
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<td>Other (contracts, grants, misc. programs), $1,212,231, 4%</td>
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<tr>
<td>Tuition and Fees, $4,475,258, 16%</td>
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<td>Private Gifts, $2,356,926, 8%</td>
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</tr>
<tr>
<td>Sales and Services, $590,681, 2%</td>
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</tbody>
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The College of Environmental Design thanks everyone who supported the College with their time and resources in the 2018–19 fiscal year. Membership in the College’s Wurster Society recognizes gifts of $1,000 and above made within the fiscal year (7/1/18 to 6/30/19). Your gifts over the past year have provided tremendous support to meet critical needs and further ensure the stability and progress of CED.

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- Shawn X. Tsao B.A. ’11
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- Jeffrey C.F. Chan P ’98, ’05

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2018–19 ANNUAL REPORT / 25

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The urban challenges of today and tomorrow require us to continually re-examine our approach in order to maintain our stance as a world-class institution of environmental design excellence. We are incredibly grateful to Jennifer Wolch for her energetic dedication to this pursuit, and we look forward to the next phase of leadership in 2020.

As we evolve, CED remains committed to rigorous research and scholarship, design excellence, innovative pedagogy, open debate, craft and skill-building, critical and theoretical practice, and insights from both the academy and professional practice.

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