Titan Book celebrates the reach and impact of our remarkable university.

In the pages ahead, you will learn more about how Cal State Fullerton continues to reaffirm its role as a highly respected and dynamic leader both within the California State University and beyond.

With 109 degree programs and an enrollment of 40,000 diverse students — more than half of whom are the first in their family to pursue a college degree — the university is a major force in the intellectual and cultural life of our region, our state and our nation, as well as a catalyst for economic and social mobility.

A clear and distinguishing feature of a Titan education is our focus on immersive learning opportunities for our students amid disparate perspectives and myriad backgrounds that dramatically enhance the educational experience. We also strongly believe in and are committed to inclusive excellence and celebrating and promoting our diversity as the only viable option for the collective success of our students, faculty and staff.

These tenets empower our graduates to hit the ground running. Ready to take on the challenges and opportunities of a changing world, Titan grads are uniquely positioned to excel as emergent leaders in the global marketplace, in further education and in their communities.

Of course, they also remain inextricably connected to their alma mater, joining new generations of Titans in our collective aspiration to Reach Higher. That is what Titans do, that is who the Titan family is, and that is what this issue of Titan Book is all about.

Sincerely,

Fram Virjee
President
Consistently lauded as a top national university, we enable students to not only acquire knowledge, but discover their purpose. Our highly ranked programs, master faculty and proven track record of educational innovation have cemented our role as a respected, in-demand and go-to leader within the California State University and beyond.

The nurse anesthetist and women’s health care concentrations in CSUF’s School of Nursing rank in the **TOP 20** among the nation’s best graduate programs.¹

CSUF has been elevated to **“R-3” STATUS** (research-level institution) in recognition of the university’s evolution from a master’s level comprehensive institution to one that awards doctorates.⁷
CSUF is among the country’s **TOP “NATIONAL UNIVERSITIES”** and one of the nation’s **“MOST INNOVATIVE”** institutions.²

**NO. 1 IN CALIFORNIA** and second in the nation among top colleges and universities awarding bachelor’s degrees to Hispanics.³

**NO. 5 IN THE NATION** for baccalaureate degrees awarded to underrepresented students.⁴

**NO. 7 IN THE NATION** in enrolling transfer students.⁵

**FIRST IN THE CSU** in enrolling transfer students and **NO. 1 DESTINATION** for community college transfer students among all California public universities, for 15 out of the past 18 years.⁶

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1. U.S. News & World Report’s “2017 Best Grad Schools” (March 2017)
3. Hispanic Outlook on Education (August 2017), based on data from the U.S. Department of Education
5. U.S. News & World Report’s “The Short List: Colleges” (February 2017)
6. CSUF Office of Assessment and Institutional Effectiveness; among California Community Colleges (October 2017)
Mihaylo College of Business and Economics’ annual and mid-year Economic Forecasts for the nation, Southern California and Orange County are extensively reported on and cited by media, and valued by business and government entities.2

Our Student Success Dashboard, heralded as a national model by the Lumina Foundation, allows us to remove artificial barriers and minimize the number of students whose graduation dates are unnecessarily deferred. The Chancellor’s Office praised it as a “breakthrough that is well worth emulating systemwide.”

CSUF’s undergraduate business administration-management program is First in the Nation for awarding degrees to Hispanic students.1

Students who can benefit from additional instruction beyond the classroom participate in CSUF’s Supplemental Instruction Program, recognized as a Center of Excellence by the CSU Chancellor’s Office — a model program for other campuses within the California State University.

CSUF’s online graduate-level business program is the Second-Highest Ranked in California, and both education and engineering online graduate programs are ranked third in California.3

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1 Diverse: Issues in Higher Education’s “The Top 100 Degree Producers” (October 2017)
2 Several media outlets, including the Los Angeles Times, Orange County Register and National Public Radio
3 U.S. News & World Report’s “Best Online Programs” (January 2017)
Astrophysicist Jocelyn Read spent more than a decade investigating what a gravitational-wave signal from a cosmic collision of neutron stars would reveal.

The signal came in loud and clear on Aug. 17, 2017, at 8:41 a.m. Eastern Daylight Time, from a galaxy 130 million light years away from Earth. A pair of orbiting neutron stars had crashed together, sending gravitational-wave signals to the two Advanced Laser Interferometer Gravitational-Wave Observatory (LIGO) detectors in the United States and the European Virgo detector.

Read’s astrophysical research helped interpret the gravitational-wave signal.

“It was an incredibly rich signal, with the signal from the detectors lasting more than 30 seconds, slowly chirping from a low thrum to a high final whoop!” said the assistant professor of physics, an expert on extreme stellar objects like neutron stars.

This first-ever discovery of gravitational waves from a cataclysmic merger of a binary neutron-star system was published Oct. 16, 2017 in Physical Review Letters. The Advanced LIGO Observatory in Hanford, Washington, and Livingston, Louisiana, and the Virgo detector, near Pisa, Italy, made the three-detector observation.

“My students and I work to understand and model how neutron stars interact, collide and radiate energy so that observations can tell us new things about their structure and composition,” she said.

Her colleagues, physicists Geoffrey Lovelace and Joshua Smith — all members of the LIGO Scientific Collaboration — along with undergraduates Erick Leon and Isabella Molina, postdoctoral research associate Marissa Walker, computation specialist Joseph Areeda and alumnus Torrey Cullen, a doctoral student at Louisiana State University, were contributors to this latest scientific finding and are co-authors of the discovery paper.

The Cal State Fullerton physicists and their students were key contributors to the first direct detection of gravitational waves from merging black holes in 2015. Their research efforts have been instrumental in three more gravitational-wave detections from black holes, including the joint LIGO and Virgo detection on Aug. 14, 2017. For their groundbreaking research in gravitational-wave science, the researchers have been awarded more than $4 million in grants over the last seven years.

The hub for their faculty-student research is CSUF’s Gravitational-Wave Physics and Astronomy Center, which opened in fall 2012 and supports gravitational-wave research, education and outreach in gravitational-wave astronomy, physics and astrophysics.

Alongside the center’s faculty mentors, scores of students have had the opportunity to work on this groundbreaking research, enhance their scientific and computing skills, present at national conferences, co-author peer-reviewed journal articles and pursue doctorates.
IMMERSIVE EXPERIENCES

A Titan education is defined by experiential learning amid a rich diversity of perspectives and backgrounds. Internships, collaborative research, study away and study abroad, service in the community, and a vibrant co-curricular life keep students engaged and empowered on their way to a degree. These high-impact experiences yield high-impact people.

At Cal State Fullerton, immersive learning begins when students first step on campus with a DIVERSE POPULATION of students, faculty and staff. In addition to learning alongside 3,158 international peers from 86 nations, students benefit from such resource centers as African American, Asian Pacific American, Chicana and Chicano, LGBT Queer, Titan Dreamers, Veterans and WoMen’s and Adult Reentry — centers that promote social consciousness and support an inclusive campus environment.

From Fall 2016 to Summer 2017, students completed 11,479 INTERNSHIPS — high-impact academic experiences and real-world applications that complement students’ studies.
The Latino Communications Institute develops an **INDUSTRY-READY WORKFORCE** through courses and certificate programs in Latino-focused communication studies. In addition, Univision’s on-campus Orange County news bureau provides a unique partnership between industry and education.

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**BEYOND THE CLASSROOM,** students engage in scientific research at the John D. Cooper Archaeological and Paleontological Center, a partnership between Cal State Fullerton and OC Parks; Tucker Wildlife Sanctuary in Silverado, operated by the College of Natural Sciences and Mathematics; and the Desert Studies Center, a field station of the CSU in the Mojave National Preserve.

CSUF’s Grand Central Art Center, a cornerstone of Santa Ana’s Artists Village, provides studio, living and exhibition space to students as part of its **ARTIST-IN-RESIDENCE PROGRAM.**

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**CSUF STUDY-ABROAD EXPERIENCES** rose by 97 percent from 2013 through 2016.²

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**STUDENT ETHNICITY**¹

- American Indian: .1%
- Asian: 20.5%
- Black/African-American: 2%
- Hispanic/Latino: 40.8%
- International*: 7.8%
- Multi-Race: 4.2%
- Pacific Islander: .2%
- White: 20.4%
- Unknown: 4.1%

* Ethnicity data are unavailable for international students.

Numbers do not total 100% due to rounding.

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¹ CSUF Office of Assessment and Institutional Effectiveness (Fall 2017)
² University Extended Education and International Programs and Global Engagement (November 2017)
³ CSUF Center for Internships and Community Engagement (September 2017)
CSUF’s NCAA Division I program across eight sports provides lessons students will benefit from for a lifetime. The university has produced **18 INDIVIDUAL CHAMPIONSHIPS** and **12 NATIONAL TITLES** — four of them by the Titan baseball team.

Students take a lead role in CSUF centers that serve as resources for **CHAMPIONING REGIONAL BUSINESSES**, including the Center for Entrepreneurship, Family Business Council and Small Business Institute. CSUF also is home to the region’s lead center of the Small Business Development Center Network, focused on empowering small business by advancing job creation, job retention and business expansion through expert consulting, effective training and access to resources. In addition, the university’s Center for Entrepreneurship operates a business incubator in Placentia and at CSUF’s Irvine location.

CSUF’s **CENTER FOR CYBERSECURITY** trains the next generation of computer security experts by partnering students with industry leaders.

The Lawrence de Graaf Center for Oral and Public History trains students to **CREATE AND PRESERVE ORAL HISTORIES** while maintaining the largest regionally focused oral history archive in California.

The Joseph A. W. Clayes III Performing Arts Center houses state-of-the-art venues for **STUDENT-LED MUSIC PERFORMANCES**, exhibitions, and theater and dance productions.
Collaborative Research at Sea Reveals Human Footprint

Jamie Hayward was among a group of Cal State Fullerton students who spent days aboard a research vessel off Monterey Bay last summer collecting tubes of sediment, braving a patch of rough weather and witnessing a pod of friendly whales.

Joining the students and their professor at sea were a United States Geological Survey scientist and technician who assisted in the deployment and recovery of the coring equipment.

The researchers are investigating whether the combination of human activities on land and climate changes over the last 150 years are resulting in variations in ocean sediment deposits.

“This research will provide a greater understanding of how the Earth is changing as the result of direct human activities, such as agriculture, development and dam construction, as well as climate change from indirect human activities,” said Joe Carlin, assistant professor of geological sciences.

Hayward’s role was to help extract the sediment from the core tubes and place samples into bags for analysis in Carlin’s campus lab.

“Through teamwork, we collected all the cores necessary to complete our research project,” said Hayward, an earth science major. “Academically, our success on this research trip is going to help me finish my thesis, pushing me further along toward my goals.”

This year, Hayward and Victoria Severin, a geology major, will analyze the samples collected for their undergraduate theses and also present their work at various conferences.

Previously collected preliminary data showed a significant increase in sediment accumulation in the Monterey Bay region beginning in the late 1960s and 1970s, but was found in only two locations in the ocean. With this latest study, the researchers are following up on these data to look for a trend that is consistent throughout the area: “We want to determine where the additional sediment is coming from and why,” Carlin explained.

This summer, Carlin and his students will continue the project to collect sediment samples on land in the region, such as in rivers, and on beaches and cliffs.

“By comparing the recent geologic record to the record over the past thousands of years, we can get a better understanding of the impacts humans have had on this environment,” said Carlin. “From this work, we hope to be able to contribute to predictions of what may change in the future so that we may be better prepared, or able to make more informed decisions about environmental issues.”
TRUSTED RESULTS

Confident, well prepared and culturally competent, CSUF graduates are uniquely positioned to excel as emergent leaders in the global marketplace, in further education and in their communities. Having benefited from a rigorous, innovative curriculum and an inclusive, supportive environment, Titans are equipped to adapt to a rapidly changing world and continuously evolve to meet new demands and opportunities.

CSUF’s commitment to SUPPORTING FIRST-GENERATION STUDENTS is reflected in its graduation rates — 58 percent of bachelor’s degree recipients are first-generation university graduates.¹

CSUF is in the TOP 17% of universities in terms of its graduates’ median salaries.⁵
Our **GRADUATION RATE OF 66 PERCENT** — the highest in CSUF history — reaffirms our commitment to seeing students engaged through degree completion. The university also is No. 1 in the CSU system and No. 2 in California for the number of bachelor’s degrees awarded. 

CSUF has been noted as a “**MODEL CAMPUS**” for its explicit goal to **CUT IN HALF THE OPPORTUNITY GAP** between underrepresented students and their non-underrepresented peers.

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1. CSUF Office of Assessment and Institutional Effectiveness (Fall 2017)
2. CSUF Office of Assessment and Institutional Effectiveness (October 2017)
3. “Social Mobility Index” with data from PayScale Inc. and IPEDS (January 2017)
4. 2015 State of Higher Education in California: The Latino Report; among students entering as first-time freshmen
5. PayScale’s “2017-18 Best Universities and Colleges by Salary Potential”
HIGHER EARNINGS
CSUF graduates earn 12 percent more than the national average.¹

LEAST DEBT
No. 2
Cal State Fullerton has the SECOND-LOWEST PERCENTAGE of graduates with debt among regional universities in the West.²

CSUF HAS ELIMINATED THE OPPORTUNITY GAP
for transfer students and has reduced it by half for first-time freshmen.³

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CSUF has produced more than 265,000 WORKFORCE-READY GRADUATES since 1957.⁴

Cal State Fullerton’s STUDENT SUCCESS TEAMS — academic, career, retention and graduation specialists who help increase graduation rates, reduce the time to earn a degree and narrow the achievement gap among underrepresented students — have been recognized with the Student Affairs Administration in Higher Education’s 2017 Promising Practice Award.

¹ PayScale College Salary Report; median mid-career salary among graduates of public universities (2016-17)
² U.S. News & World Report’s “Best Colleges” (September 2016)
³ CSUF Office of Assessment and Institutional Effectiveness (Fall 2017); the opportunity gap represents the disparity in graduation rates between underrepresented and non-underrepresented students
⁴ CSUF Office of Assessment and Institutional Effectiveness (Fall 2017)
A Titan on the ‘Hamilton’ Stage

Playing the dual roles of John Laurens and Philip Hamilton in the national touring company of “Hamilton” is no easy feat, but it’s one that Rubén Carbajal was ready for. The theatre arts-musical theatre alumnus credits much of his success to his education at Cal State Fullerton.

“I came to CSUF with such an open mind, and I wanted to learn as much as possible. I just absorbed the information given to me,” said the actor. “My professors in the B.F.A. program definitely had the greatest impact on me. ... These professors all helped to prepare me for what I am going through now, which is the biggest job I’ve booked.

“They do a great job of not only prepping the performer, but also preparing the mind of the performer.”

Carbajal started his career at age 5, performing in commercials and various film projects throughout his childhood. His plan, he said, was to major in something “secure” — but he decided in his senior year of high school to pursue his dream.

Outside of school, Carbajal landed a role in a local production of “In the Heights,” Lin-Manuel Miranda’s predecessor to “Hamilton.”

“As I watched that show, for the first time, I could really see myself on stage,” explained Carbajal. “The characters looked like me; they spoke like me. My goal was to be a part of it.”

While at CSUF, he had plenty of opportunities to put to practice what he learned, appearing in productions such as “Kiss Me, Kate,” “Legally Blonde” and “Illyria.”

“The B.F.A. program was the most challenging,” he said. “But I was determined to make the most of my opportunities. I knew I needed to keep up with my general education classes and then go out and audition and perform.

“When I see people waiting outside the stage door to meet us, I still can’t believe it,” he shared during a recent talk with CSUF students. “It’s such a wonderful feeling to see so many people inspired by a show that I get to be a part of.”

One of the greatest lessons Carbajal learned as a student at Cal State Fullerton was to take advantage of challenges and pull from all those different experiences. And if he feels tired or unmotivated, he only needs to think of his favorite “Hamilton” song, “My Shot,” and he immediately feels better.

“I am not throwing away my shot.”
CSUF: An Overview

109 DEGREES
CSUF offers 57 undergraduate and 52 graduate degrees, including a doctorate in education and doctor of nursing practice.

STATEWIDE IMPACT
An economic powerhouse in Orange County and beyond, CSUF is an employer, a generator of economic activity and a provider of tax revenue.¹

270,815 DEGREES EARNED (1959-2017)
No. 1 CSU and No. 2 in California²

A SUPERIOR INVESTMENT
For every $1 invested by the state in CSUF, it returns $13.40 to California’s economy.¹

FALL ENROLLMENT TRENDS²

1 “CSUF Economic Impact Analysis” ICF (2017); excludes impact of alumni
2 CSUF Office of Assessment and Institutional Effectiveness (October 2017)
OPERATING BUDGET
For the fiscal year ending June 30, 2018, the university’s annual operating fund is $416.9 million.

Revenue
- Tuition Fees: 49.2%
- State Allocation: 43.9%
- Other Receipts: 4.5%
- Non-Resident Fees: 2.4%

Expenses
- Salaries and Benefits: 70.8%
- Other Operating Costs: 15.9%
- Tuition Discounts: 13.3%

ENDOWMENT MARKET VALUE
as of fiscal years ending June 30th

| Year | Value
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<tr>
<td>2016-17</td>
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TOTAL GIFT COMMITMENTS
During the 2016-17 fiscal year, total gift commitments were $21.5 million.
CSUF: An Overview

CSUF delivers 109 degrees at 46% BELOW THE NATIONAL AVERAGE TOTAL COST of attendance at four-year public universities.¹

CSUF is among top U.S. institutions for “BEST VALUE.” ²

CSUF is in the TOP 25% of universities considered a “BEST BANG FOR THE BUCK.” ³

CSUF ranked in the TOP 15% of “BEST COLLEGES FOR YOUR MONEY.” ⁴

45% OF UNDERGRADUATE STUDENTS RECEIVE PELL GRANTS.⁵

63% OF UNDERGRADUATE STUDENTS RECEIVE FINANCIAL AID.⁶
TITAN ALUMNI
- In Orange County: 45%
- Within 50 miles of campus: 28%
- Elsewhere in California: 10%
- In the U.S. outside of California: 13%
- Outside of the United States*: 4%

* Estimated

PARENT EDUCATION LEVEL
(all students)
- Parent(s) earned bachelor's degree or higher: 36%
- Student is first generation to attend: 31%
- Parent(s) have some college, no degree: 25%
- Unknown: 8%

RESIDENCY AT ADMISSION
(first-time freshmen)
- Orange County: 39%
- Other (and international students): 31%
- Los Angeles County: 30%

$4.3 BILLION IN ALUMNI SPENDING POWER
is attributable to earning a CSUF degree.

1 College Scorecard, U.S. Department of Education
2 Money (July 2017)
3 CSUF Division of Student Affairs (January 2018)
4 Forbes (April 2017)
5 Washington Monthly (August 2017)
6 CSUF Office of Assessment and Institutional Effectiveness (Fall 2017)
7 CSUF Division of University Advancement; living alumni (January 2016)
8 “CSUF Economic Impact Analysis” ICF (2017)
CSUF: An Overview

MEDIAN AGE OF UNDERGRADUATE STUDENTS

- 13% < 20 years
- 87% 21-24 years
- 22% Average Age

3,158 INTERNATIONAL STUDENTS
from 86 nations

NEW UNDERGRADUATES

- 55% Entered as first-time freshmen
- 45% Entered as undergraduate transfers

AVERAGE HIGH SCHOOL GPA AND SAT SCORES OF FIRST-TIME FRESHMEN

- 3.63 Average GPA
- 1101 Average SAT Scores

STUDENT GENDER

MALE | FEMALE
---|---
UNDERGRADUATES | 44% | 56%
POST-GRADUATES | 38% | 62%
ALL STUDENTS | 43% | 57%
Cal State Fullerton has 241 acres, 110 permanent buildings, 1,980 on-campus residents and a 585-seat Gastronome dining complex.

Seven buildings are certified (or equivalent) for LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN. The university is home to the FIRST LEED PLATINUM student housing complex in California and the first Platinum-rated housing in the state. The Student Recreation Center is rated LEED GOLD.\(^2\)

CSUF has been listed among the nation’s ENVIRONMENTALLY SUSTAINABLE COLLEGES in the “Guide to 375 Green Colleges.”\(^3\)

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1 CSUF Office of Assessment and Institutional Effectiveness (Fall 2017)
2 Leadership in Energy and Environmental Design program, U.S. Green Building Council; Facilities Planning and Management, CSUF
3 Princeton Review (September 2017)