

TITAN REPORT



'BIG IDEAS' SEEK INNOVATIVE SOLUTIONS TO SOCIETY'S CHALLENGES

Cal State Fullerton's College of Engineering and Computer Science's "big ideas" initiative is providing real-life solutions to society's most pressing issues through three faculty-driven projects. The projects selected are "Engineering Wildfire Mitigation," "Digital Homeless Initiative" and "Human-Centered Design Initiative."

College faculty members developed three transformative and innovative projects to tackle challenging problems communities are facing. To learn more, visit the "Big Ideas" website at fullerton.edu/bigideas.

"This effort imagines new ways for how we, as a college, engage in society's challenges and how philanthropy can play an important role in advancing a shared impact," said Dean Susan Barua. "The goal is to pair the strengths of our faculty with the needs of the community. Fire mitigation, homelessness and human-centered design are complex, multifaceted challenges."

BIT.LY/CSUF-BIG-IDEAS

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President Fram Virjee, Vice President for Student Affairs Tonantzin Oseguera, and Athletic Director Jim Donovan celebrate the return of Jason Dietrich, the new baseball coach (second from right) back to Goodwin Field.

Titan Alum Named as Head Baseball Coach

Jason Dietrich has been named as the new head coach of Titan baseball.

"I am thrilled to welcome Jason back to Cal State Fullerton as the new head baseball coach," said Jim Donovan, director of athletics. "Jason is the perfect person to lead this great program. He will not only lead the program to success on the field but will demand excellence from our student-athletes in the classroom."

Dietrich, the sixth head coach in the program's Division I history, comes to Cal State Fullerton after spending the last two seasons as the pitching coach at East Carolina where he helped lead the team to the NCAA Super Regionals this year.

"I'm very honored and humbled to get this great opportunity to be the leader of Cal State Fullerton," Dietrich said. "It's very special to myself and to my family."

Dietrich is returning to the Titans program after serving as the pitching coach in 2013-16. He also had stints at UC Irvine (2008-12) and Oregon (2017-19) that resulted in eight NCAA Regionals and one College World Series appearance.

BIT.LY/CSUF-BASEBALL-COACH-2021

U.S. NEWS & WORLD REPORT NAMES CSUF'S NURSING SCHOOL MASTER'S PROGRAM AS NO. 5 IN CALIFORNIA

Cal State Fullerton's Nursing School graduate program is fifth in California and No. 63 of 574 schools nationwide in *U.S. News & World Report's* 2022 Best Nursing Schools: Master's programs, announced in the spring of 2021.

The nursing anesthesia doctoral program, offered in partnership with Kaiser Permanente School of Anesthesia, is No. 4 nationally in the *U.S. News Best Health Schools* list. The master's degree in midwifery is No. 21 on the list.

BIT.LY/CSUF-TOP-NURSING-PROGRAM-2021

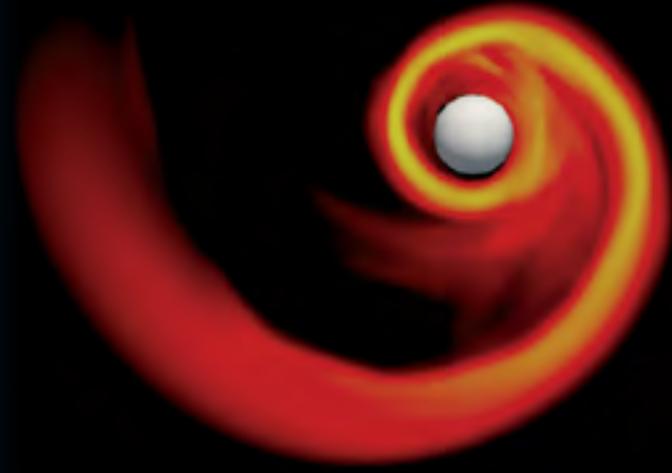
Neutron Stars Swallowed by Black Holes in Rare Cosmic Collisions

For the first time, gravitational-wave scientists have detected two collisions between a black hole and a neutron star, with Cal State Fullerton researchers involved in interpreting the novel cosmic events.

Contributing to this discovery are Jocelyn Read, associate professor of physics, postdoctoral research associate Philippe Landry and physics graduate student Derek White '20 (B.S. physics), all of the Nicholas and Lee Begovich Center for Gravitational-Wave Physics and Astronomy.

This latest discovery was announced by the National Science Foundation's Laser Interferometer Gravitational-Wave Observatory (LIGO) in the United States and by the Virgo detector in Italy.

[BIT.LY/CSUF-BLACK-HOLE-COLLISION](https://bit.ly/csuf-black-hole-collision)



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TITAN noun | ti-t'n
one who stands out for **greatness of achievement**



Emerio Martinez, from left, Andrew Petit, Sam Behseta, along with Willie Peng and John King of CSUF's Data Center, are collaborating on the new high-performance computing cluster grant project.

\$600,000 Grant for Supercomputer to Boost Research, Teaching

Cal State Fullerton researchers are getting a powerful computing tool to solve a wide range of large computational problems in science and mathematics — from understanding the spread of COVID-19 to prepare for future pandemics to developing advanced math models of crime and cybersecurity.

A \$583,900 grant from the U.S. Army is funding the acquisition of a new high-performance computing (HPC) cluster to enable science and mathematics faculty and students to engage in leading-edge research activities.

The supercomputer, which will be part of the Center for Computational and Applied Mathematics in the College of Natural Sciences and Mathematics, gives researchers the ability to process a large amount of data in a fraction of the time.

FOR MORE INFORMATION, VISIT: [BIT.LY/CSUF-SUPERCOMPUTER-GRANT](https://bit.ly/csuf-supercomputer-grant).