

College of Natural & Agricultural Sciences

### STATE OF THE COLLEGE

Dean Kathryn Uhrich

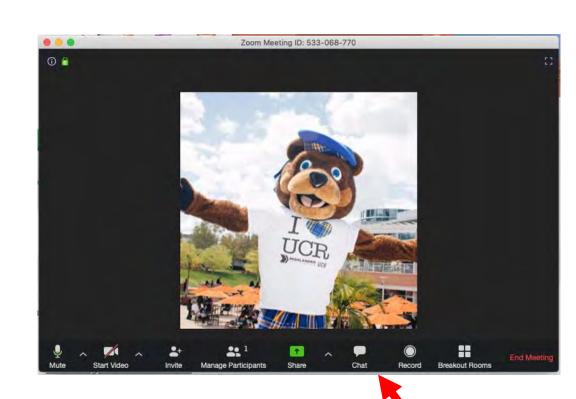
March 11, 2020

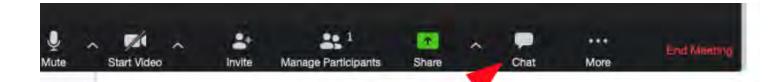


### Welcome to the First SOC via Zoom

Please make sure you are muted throughout the presentation.

You can submit questions on the Zoom Chat.







### CNAS: State of the College

Update on the Coronavirus

**University Updates** 

**CNAS Budget** 

Faculty

Grants

Enrollment

Student Success

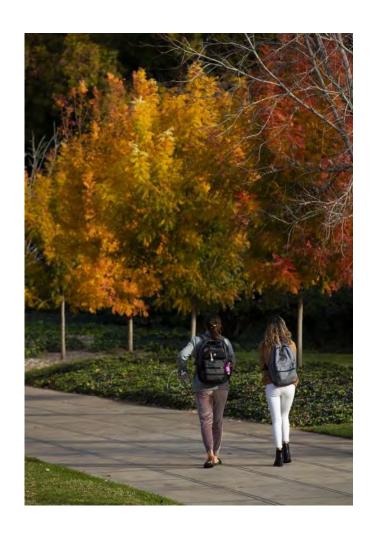
Infrastructure

Philanthropy

Community Outreach

UCR and CNAS in 2020

Q&A





### Coronavirus

#### Here's What We Know Now

- Currently, no known cases of COVID-19 within UC Riverside community
- To prevent further spread of COVID-19, UCR is proactively taking steps that will help to protect the community
  - Working to protect our health care system
- For questions regarding COVID-19 and its impact on the UCR Community, please visit ehs.ucr.edu/coronavirus



### Coronavirus

### Academic Continuity & Campus Operations

- Winter quarter final exams will not be held in person.
- In-person instruction for Spring quarter will be suspended through April 3, 2020
- As of today, campus is not closed.
- Instructors should plan to teach spring quarter courses fully online through April 3, 2020, and prepare to continue online instruction through the remainder of the quarter
- Spring quarter measures are temporary, and will be reviewed and updated regularly.

### UCR: Goals & Initiatives

#### Long-Range Development Planning

35,000 students by 2035

#### Additional Classroom Seats

- 740 total seats available Fall 2020
- 1,254 total seats available Fall 2021

#### **OASIS**

Opportunities to Advance Sustainability, Innovation, and Social Inclusion

#### Campus Facilities

- Wet Lab Incubator (MRB)
- Biocontainment Facility (BSL3 for plants)
- CARB: California Air Resources Board
- Student Success Center
- Dundee-Glasgow and North District student housing complexes
- Plant Growth Environment Facility



### UCRIVERSITY OF CALIFORNIA College of Natural & Agricultural Sciences

### UCR Accomplishments

No. 1 for Social Mobility (US News & World Report, 2020)



UCR jumped 20 places — to No.12 in the U.S. and No. 9 among public universities (Money Magazine, 2019)

No. 1 public university in the country, and No. 4 overall (Money Magazine, 2019)

No. 27 among all institutions and No. 15 among public universities (Washington Monthly, 2019)

No. 12 on its list of the top 50 public universities that pay off the most (CNBC, 2019)

UCR climbed 37 spots in the Forbes' "America's Best Value Colleges" rankings, to No. 27 overall and No. 12 among public universities (Forbes, 2019)

No. 2 in the country for financial aid (Business Insider, 2019)

















### **UCR Updates**

#### Vice Chancellor, Research & Economic Development

Hired: Rodolfo Torres

#### **Provost & Executive Vice Chancellor**

Interim: Tom Smith

#### **Strategic Planning**

#### **Long-Range Development Planning**

35,000 students by 2035

#### **Enrollment & Classroom Seats**



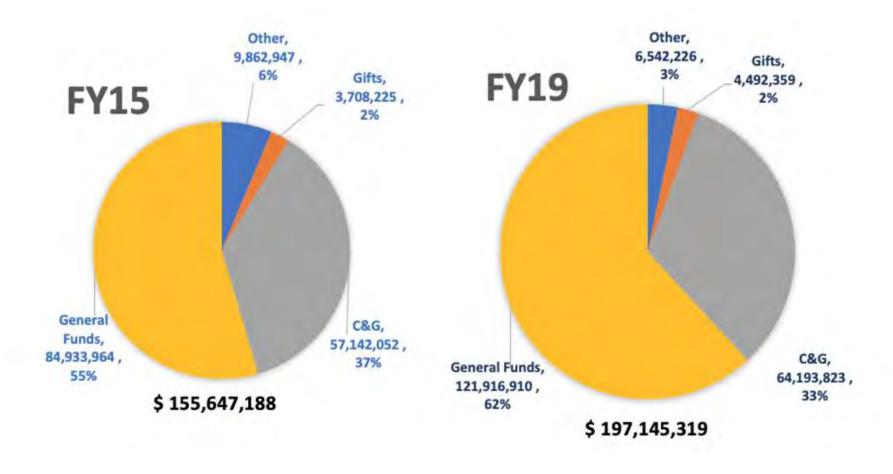


### **CNAS Vision**

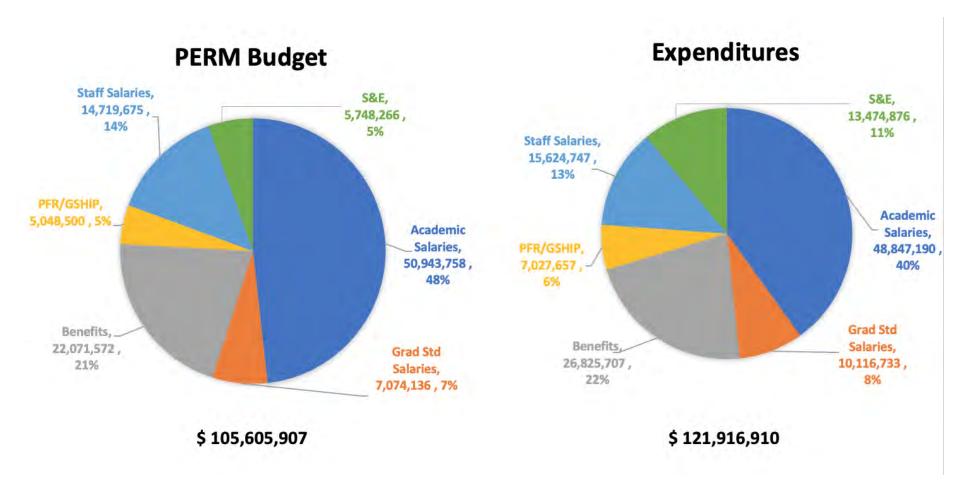
#### Elevate CNAS Status

- Enhance Faculty Visibility
- Improve Student Experience
- Embrace Community

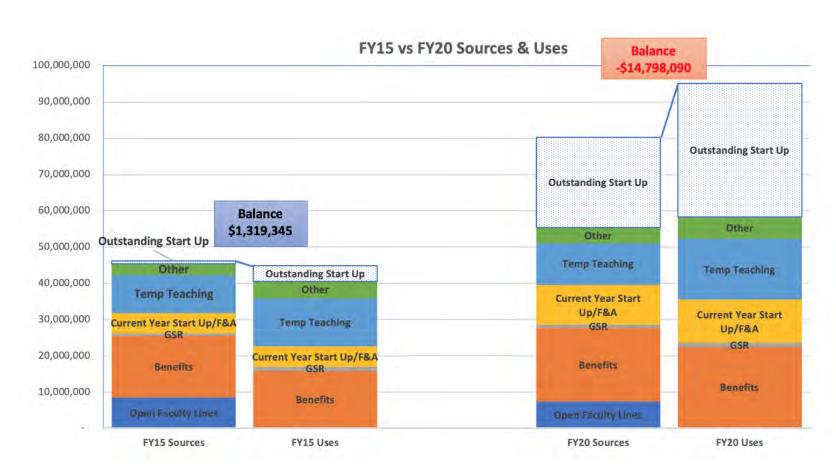
# CNAS Budget: Actual Expenditures by Fund Group FY15 & FY19 Comparison



### CNAS Budget: General Funds by Budget Category FY19



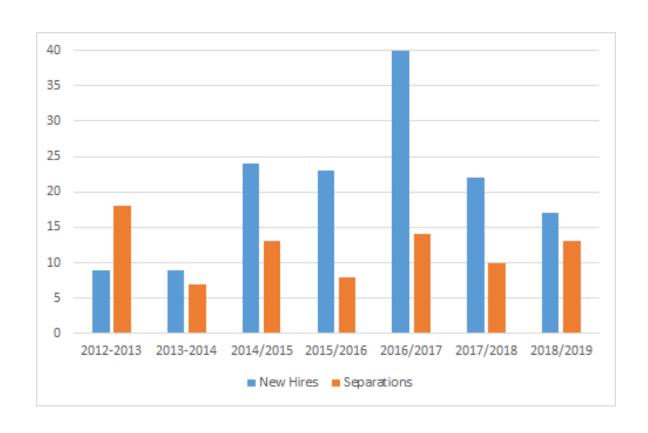
### CNAS Budget: CNAS Deficit Composition



# CNAS Budget: Departmental Mechanisms to Increase Revenue

- Offer summer session courses
- Recruit self-supporting MS students
  - Pipeline for Ph.D. program
- Add course and lab-based terminal Masters programs
- Develop self-supporting Masters programs
  - Such as Data Science (Statistics/SOB)
- Develop additional online instruction
  - Also helps with "Finish in Four"
- Develop graduate preparation programs (GPP) jointly with UNEX
- Increase international and NRT student enrollment

### Faculty: Hires vs Separations





### New Faculty

Polly Campbell, assistant professor in the Department of Evolution, Ecology, and Organismal Biology

Heyrim Cho, assistant professor of mathematics in the Department of Mathematics

Ashraf El-Kereamy, cooperative extension specialist in the Department of Botany and Plant Sciences

Yingzhuo Fu, assistant professor of teaching in the Department of Statistics

**Natalie Holt**, assistant professor of physiology in the Department of Evolution, Ecology and Organismal Biology

**Chow-Yang Lee**, professor and Endowed Presidential Chair in Urban Entomology at the Department of Entomology

Danelle Seymour, assistant professor of genetics in the Department of Botany and Plant Sciences

**Timothy Su**, assistant professor of chemistry in the Department of Chemistry

Linlin Zhao, assistant professor of chemistry in the Department of Chemistry





### Faculty Hiring

#### 5 Year Plan

#### Criteria

- Fulfilling the "7 year rule"
  - For faculty who separate before tenure, faculty "line" reverts back to the Department; this is the highest ranked highest priority for CNAS
  - Total of 7 (2 Ent, 2 Chem, 1 Stat, 1 P&A, 1 Nem)
- Meets research needs
- Meets CNAS teaching needs
- Spousal accommodations for CNAS faculty
- Space/infrastructure to accommodate the requested hire(s)
- Separations/retirements
- Promised hires
  - Total of 15 (1 MPP, 1 Ent, 8 BPS, 5 P&A)

# National Science Foundation Career Awards (2019-2020)

**UCR NSF Career Awards** 

- 6 CNAS
- 2 BCOE

UCR has 30+ active NSF Career Awards



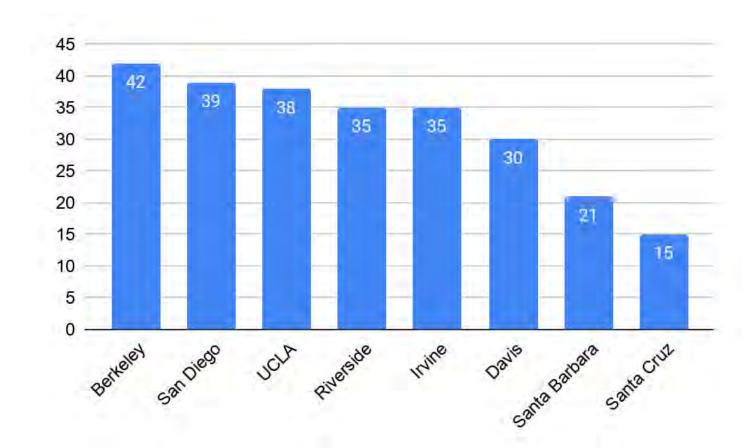


### University of California NSF Career Awards (2019-2020)



Ladder Rank Faculty at UCI = 1,298

Ladder Rank Faculty at UCR = 856





### Faculty Honors and Awards

### Presidential Early Career Award for Scientists and Engineers

Nathaniel Gabor, Associate Professor of Physics and Astronomy



Samantha Ying, Assistant Professor of Soil Biogeochemistry



Exequiel Ezcurra, a professor of ecology

### American Association for the Advancement of Science Fellow

Isgouhi Kaloshian, chair of the Department of Nematology











### Faculty: Most Influential Scholars

Julia Bailey-Serres, plant and animal science

Alexander Balandin, electrical engineering and materials science

Pingyun Feng, chemistry

Hailing Jin, microbiology and plant pathology

Sang-Youl Park, plant and animal science

Sean Cutler, plant and animal science

**Timothy Lyons**, geosciences

Yadong Yin, chemistry





### Faculty Recognition

### Cooperative Extension Specialist

- Title change request submitted for UCR UC Cooperative Extension Specialists
- Eligibility to be considered for Career Reviews
- Simplified merit process

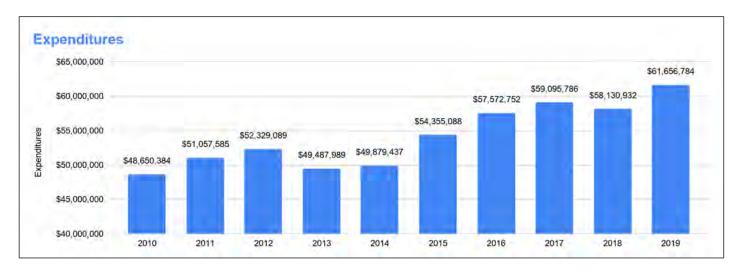


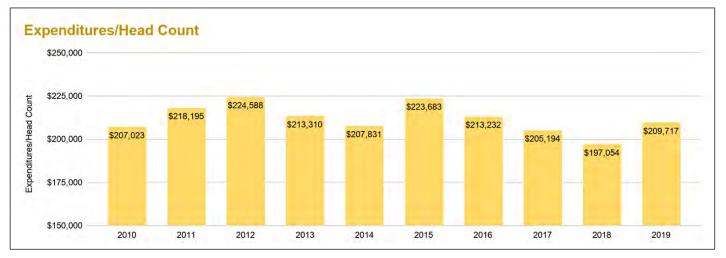
## Grant Awards

# TOTAL GRANT AWARDS 1,058 Grants \$173M CNAS is 53% of that total



### **CNAS Contract & Grant Expenditures**



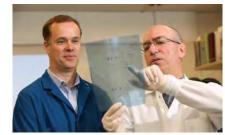




### Research Grants

# Two Projects Receive NIH Grant for Breast Cancer Research

- Ernest Martinez, professor of biochemistry Luminal B Breast Cancer
- John Jefferson Perry, assistant professor of biochemistry Triple-Negative Breast Cancer



### National Science Foundation (NSF)

Ludwig Bartels, professor of chemistry
 New van der Waals materials





### **CNAS Vision**

#### Elevate CNAS Status

- Enhance Faculty Visibility
- Improve Student Experience
- Embrace Community



### UCR: Enrollment for Fall 2019

# This fall, UCR welcomed 7,843 total new students

- 6,725 undergrads
- 4,582 new resident freshmen
- 1,947 transfers
- 1,118 graduate students

### Total enrollment is 25,548

6.7% increase from last year





### CNAS: Total Enrollment Fall 2019

### 7,291 total CNAS student enrollment

- 859 Ph.D. students
- 20 M.S. students
- 6,372 undergraduates
  - 806 are transfer students

#### **New CNAS students**

- 1,668 first-year students
- 369 transfer students
- 180 graduate students



### Student Success

### **CNAS Learning Communities**

- 70% of entering CNAS freshman join year-long cohorts of 24 students
- CNAS 6-year STEM graduate rate average is over 75%
- Retention into CNAS second year is ~95%, consistently higher than tan those who are not in the Learning Communities

#### Goals

- 100% of CNAS freshman to participate in the Learning Communities
- Develop Learning Communities for transfer students





### Student Success

### RISE: Research in Science and Engineering

#### **About RISE**

RISE prepares students for graduate and professional study by providing valuable research experiences, training, seminars, and professional development workshops.

\$6,500 per year from corporate partners supports one undergraduate summer research intern on campus for a 10-week program

Promotes corporate engagement and philanthropy with CNAS and UCR

#### **Program Update**

\$1M donation secured for endowed funding; annual expected endowment growth will support increasing number of students





### Undergraduate Student Awards

### Barry M. Goldwater Scholarship

#### **Anthony Cort**

Cort is conducting research on infectious diseases, specifically, on malaria. He's looking at malaria parasites, their DNA structure, and the proteins involved.

#### **Amrik Kang**

Kang just completed his third year as a biology major. The 20-year-old junior wants to further explore his interest in mechanisms of human disease and possible treatments.

#### **Catherine Seo**

Seo is investigating material that can utilize the body to regenerate damaged or broken tissue. Seo has also conducted research on biodegradable orthopedics and neurological implants. She wants to create a type of biodegradable screw to help stabilize internal fractures and a type of biodegradable needle to act as a probe that can measure wavelengths.





### **NSF** Fellowships

#### **Graduate Students**

Holly Christenson, astronomy and astrophysics
Alexandria Nicole Costantino, particle physics
Martin Fernandez, cosmology
Marie Laura Leger, entomology
Jill Marzolino, evolutionary biology
Gregory Michael Newkirk, microbial biology
Samantha Smith, systematics and biodiversity.



### Undergraduate Students

**Sofia Rose Martinez Alberga**, algebra, number theory, and combinatorics **Cindy Cristina Yanez**, climate and large-scale atmospheric dynamics.

### Graduate Student Awards

#### Grad Slam 2020

At the UCR Grad Slam Finals on March 3, 2020, Graduate Division awarded a \$5,000 fellowship to the best 3-minute talk by a UCR graduate student about their research or creative project.

Additional awards include \$2,000 to the first runner-up, \$1,000 to the second runner-up, \$1,000 to the audience's choice, \$500 to the poster session winner, and \$100 to 5 honorable mentions.

Of the 12 participants, 8 were CNAS Graduate Students.





### **CNAS Vision**

#### Elevate CNAS Status

- Enhance Faculty Visibility
- Improve Student Experience
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### Infrastructure: Campus Projects Facilities Related Projects/GO Bond

Speith Hall: Pending outcome of GO Bond Funding

**Batchelor Hall**: Targeted to launch Summer 2020 [expected to be completed early 2023]

Webber Hall: Pending outcome of GO Bond Funding

Pierce Hall: Targeted for completion Fall 2021

**MRB Move**: As of Spring 2019, MRB populated 6 faculty cluster groups (Neuroscience, Infectious Disease, Quantitative Modeling, Data Science, ETOX, Gut Brain Axis)

**NRS (Natural Reserve System)**: Prop 84 Funded Projects due to be completed in Spring 2020. New building and upgrades to existing facilities at *Sweeney Granite Mountains* Desert Research Center and *Boyd-Deep Canyon* Desert Research Center







### Infrastructure: CNAS Projects

MSE Cleanroom: Expected to be compete Summer 2020

CVC - CUPS: Expected to be complete late Spring 2020

PGEF: Expected to be occupied in early Fall 2020

New Greenhouse [Field 16]: Completed on AgOps early Fall 2019







### College of Natural & Agricultural Sciences

### Philanthropy

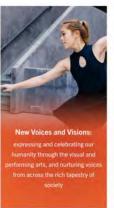
### Living the Promise

Launched in 2016 and will conclude on December 31, 2020

The \$300 million raised will help students, support faculty and their research and creative activities, build new infrastructure around campus, and fund endowed chairs, research, and university programs.

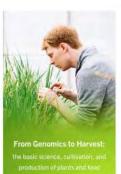




















### Philanthropy

### Scholarship Management/Academic Works

#### Increase in total number of applications

- 2018-19: 142 applications
- 2019-20: 1,060 applications

#### Increase in total amount awarded

- 2018-19: \$45,725 was awarded
- 2019-20: \$108,989 was awarded





### Philanthropy

### Environmental Sustainability & Conservation Efforts

- \$5M endowed gift
- Largest gift made to CNAS to-date





### Philanthropy

#### **Endowed Chairs**

- CNAS Currently has 19 Endowed Chairs
  - \$26M Endowment
- Reviewing and updating previous gifts
  - Planned gift committed by Singletary Family in 2010; university just received funding when their estate closed in 2019.
  - Jones Family gift in 1987
- Awards Committee working to develop standards/criteria



### Community Outreach

#### Science Lecture Series

#### April 7

"The Plurality of Worlds: Searching for Life in a Universe of Data"

Stephen Kane, Associate Professor of Plantary Astrophysics

#### April 14

"From Sources to Space" of B Data Can Help Us Manage Greenhous Gas Lanssions" Francesca Hopkin, Acid ant Professor of Climate Change & Gusta no ility

#### APR 21

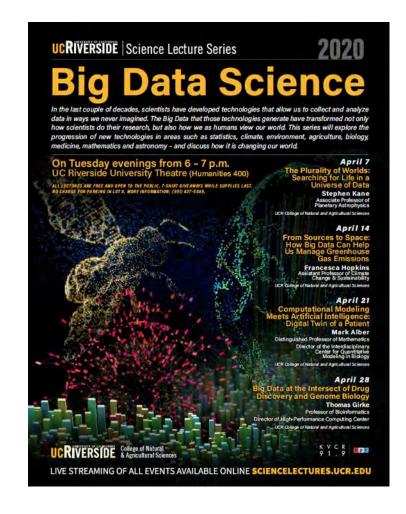
"Computational Modeling Meets Artificial Intelligence: Digital Twin of a Patient" Mark Alber, Distinguished Professor of Mathematics

#### April 28

"Big Data at the Intersect of Drug Discovery and Genome Biology"

The page Cirles Drefessor of Bioinformatics

Thomas Girke, Professor of Bioinformatics





### UCR & CNAS in 2020

#### **UC** Riverside

LRDP: Long-Range Development Plan

• CNAS: Bolstering land based research

#### Strategic Planning

• CNAS: Academic Plan

#### Safety Assessment

• CNAS: Focus on instructional labs

OASIS: Opportunities to Advance Sustainability, Innovation, and Social Inclusion

• CNAS: Clean air, clean water, clean soil



Graduate Student and Program Support



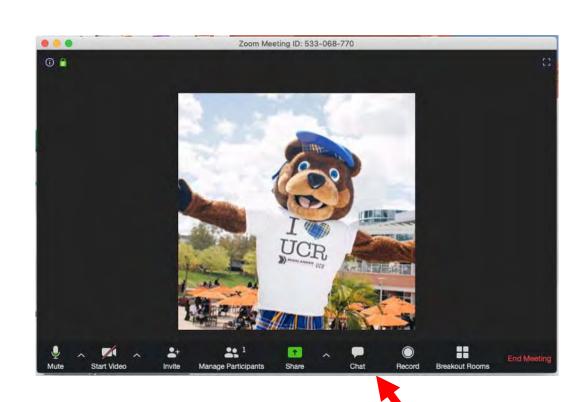




### For Discussion

Please make sure your line is muted.

You can submit questions on the Zoom Chat.





### **Academic Continuity**

#### **Keep Teaching**

- keepteaching.ucr.edu
- Discussion Boards https://keepteaching.ucr.edu/community#bn-forum-1-1-136088973/11258

#### **Pedagogical questions**

The Exploration Center for Innovative Teaching and Engagement (XCITE) is available to help you adapt your finals into different formats and to begin your spring quarter online.

• Xcite.ucr.edu

#### **UCR Academic Senate**

COVID-19: Important instructional continuity guidance

senate.ucr.edu/news/covid19.html

#### 24/7 Technical Assistance iLearn Support

- help.blackboard.com/Learn
- iLearn Support: <a href="mailto:helpdesk@ucr.edu">helpdesk@ucr.edu</a>



### **Technical Support**

#### 24/7 Technical Assistance iLearn Support

- help.blackboard.com/Learn
- iLearn Support: helpdesk@ucr.edu

#### 24/7 Zoom Support

- support.zoom.us/hc/en-us/articles/201362003
- Zoom Support Hotline: 1-888-799-9666 ext 2
- Workshop on course delivery via Zoom https://zoom.us/rec/play/6Jd4d-Gqq203HICTsASDA\_d9W9TvJ66s1ill\_flFyky1UXMLOlehZeQRZbNAGp6XQfYOur0c\_Y0 EobyL?continueMode=true

#### **Remote Access**

- Accessing VPN: https://systems.engr.ucr.edu/help/vpn
- Accessing Remote Desktop: https://systems.engr.ucr.edu/help/remote-access

#### **UCR Bear Help**

- ucrsupport.service-now.com/ucr\_portal/?id=ucr\_home
- BearHelp email: BearHelp@ucr.edu



### Additional UCR Resources

#### UCR Health hotline for faculty and staff only (not for the general public or students)

hotline at 844-827-6827 24 hours a day, 7 days a week

#### **UCR Student Health Service (for students only)**

951-827-3031

#### **UCR Environmental Health & Safety**

ehs.ucr.edu/coronavirus

#### **UCR Student Health**

• Studenthealth.ucr.edu

#### **Research Continuity**

UCR RED is preparing a website: TBD

#### **UCR Bear Help**

- ucrsupport.service-now.com/ucr\_portal/?id=ucr\_home
- BearHelp@ucr.edu

#### **CNAS Covid-19 Info Page**

cnas.ucr.edu/covid-19



### Announcements

#### **UCR Announcements**

insideucr.ucr.edu/announcements

#### **UCR Environmental Health & Safety**

ehs.ucr.edu/coronavirus

#### **COVID-19 Info**

- EH&S: ehs.ucr.edu/coronavirus/faq\_faculty-staff
- CDC: www.cdc.gov/coronavirus/2019-ncov/index.html
- CDC COVID-19 Facts: www.cdc.gov/coronavirus/2019-ncov/about/share-facts.html
- CDC COVID-19 FAQs: www.cdc.gov/coronavirus/2019-ncov/faq.html

#### **UCOP Info on Covid-19**

www.universityofcalifornia.edu/coronavirus

#### **Travel**

ehs.ucr.edu/coronavirus#information\_for\_travelers