



UC DAVIS
UNIVERSITY OF CALIFORNIA

ONE HEALTH

FOOD SYSTEMS CONFERENCE

INTEGRATING VETERINARY, FOOD,
ANIMAL, AGRICULTURE, AND
ENGINEERING SCIENCES

 **ONLINE**
INTERACTIVE & GROUNDBREAKING
CONFERENCE

JULY 20-31, 2020

INTEGRATING VETERINARY, FOOD, ANIMAL, AGRICULTURE, AND ENGINEERING SCIENCES



ABOUT UC DAVIS

OUR STORY

UC DAVIS
UNIVERSITY OF CALIFORNIA



UC Davis is the home of the Aggies — go-getters, change makers and problem solvers who make their mark at one of the top public universities in the United States.

Since we first opened in 1908, we've been known for standout academics, sustainability and Aggie Pride as well as valuing the Northern California lifestyle. These themes are woven into our 100-plus-year history and our reputation for solving problems related to food, health, the environment and society.

Our 5,300-acre campus borders the city of Davis, a vibrant college town of about 68,000 people living in Yolo County. The state capital is 20 minutes away, and world-class destinations such as the San Francisco Bay Area, Lake Tahoe and the Napa Valley are within a two-hour drive.

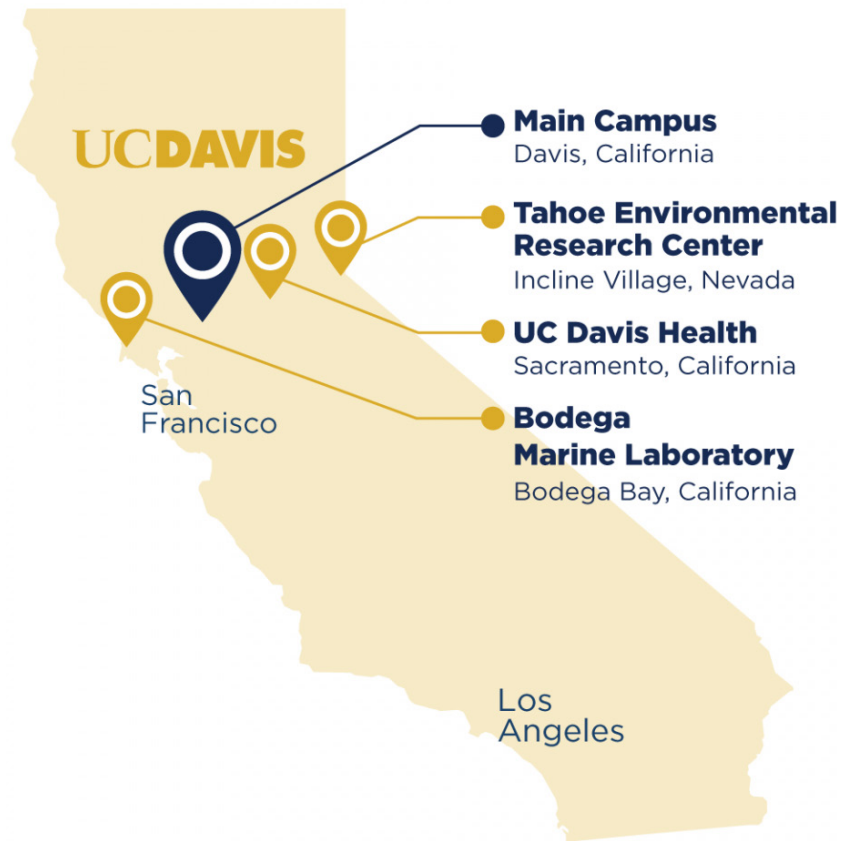


ABOUT UC DAVIS

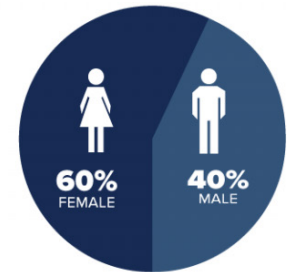
AT A GLANCE

UC DAVIS

UNIVERSITY OF CALIFORNIA



39,152 enrolled students



102
MAJORS



22,000 bicycles on campus a day



\$846 million
research funding for 2017-2018



101
GRADUATE PROGRAMS

ABOUT UC DAVIS

FAST FACTS



**1st in the world for
veterinary medicine**



**1st in the nation for
agriculture**



**1st in the nation for
diversity and
internationalization**



**2nd nationally among
Affordable Elite
Colleges**



**5th among public
universities in the U.S.**



**9th among U.S. institutions
granting undergraduate
degrees to students of**

ABOUT WIFSS

WHAT WE DO



The Western Institute for Food Safety and Security (WIFSS) is a University of California, Davis program of the School of Veterinary Medicine and the College of Agricultural and Environmental Sciences.

Since 2015, WIFSS has sponsored in-depth educational experiences for undergraduate, Ph.D. students, and faculty, to learn about the importance of applying a One Health approach to solving problems concerning food safety and security, and animal health. We have successfully sponsored One Health conferences for more than 500 participants including students and faculty from universities and vocational colleges throughout multiple provinces in China.

OUR MISSION

Our mission is to serve the global community by conducting research, developing training, and providing outreach programs that focus on safer, better quality food systems, water quality, and healthy animals, to safeguard the health and security of people, animals, and the environment.



WIFSS LEADERSHIP

**ROB ATWILL**

DVM, MPVM, PhD

Director

**BENNIE I. OSBURN**

DVM, PhD, Dipl. ACVP

Director of Outreach and Training
Dean Emeritus, School of
Veterinary Medicine, UC Davis**MICHELE JAY-RUSSELL**

DVM, MPVM, PHD, DIPL. ACVPM

Program Manager, Western
Center for Food Safety

CONFERENCE DESIGN AND COORDINATION



DAVID GOLDENBERG

Food Safety and Security
Training Coordinator



CHRIS BRUNNER

Communications and
International Programs
Director



HEATHER JOHNSON

MS
Instructional Systems Designer



MICHAEL LUO

MS
Education Specialist and
International Programs
Coordinator



SARA GARCIA

PHD
Project Scientist



GREGORY S. WLASIUK

MA
E-Learning Curriculum
Designer



RICHARD THOMPSON

Graphic Designer & Web
Developer

OVERVIEW

ABOUT THE CONFERENCE

UC Davis-WIFSS One Health Conferences provide an in-depth educational experience for undergraduate students around the globe to learn about the importance of applying a One Health approach to solving specific, complex problems that arise at the interface of people, animals, and the environment. Our One Health for food systems conferences motivate talented international students to address important societal problems in veterinary, food systems, animal, agriculture, and engineering sciences. By using innovative, interactive, and student-centered learning experiences students learn the value of taking an interdisciplinary approach to solving complex real-world problems through problem-based learning activities which develop critical thinking skills, problem-solving abilities, and communication skills. This One Health approach to solving problems is critical in promoting progress towards safer, better quality food systems and healthy animals and people around the world.



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JULY 20-31

- INTERACTIVE TEAM BUILDING
- COLLABORATIVE GROUP PROJECTS
- PROBLEM SOLVING SKILLS

REGISTRATION INFORMATION AT:
wifss.ucdavis.edu/onehealthconference

ENSURING THE WELL-BEING OF PEOPLE, ANIMALS AND THE ENVIRONMENT

UC DAVIS
VETERINARY MEDICINE

UC DAVIS
COLLEGE OF AGRICULTURAL
AND ENVIRONMENTAL SCIENCES

UC DAVIS
WIFSS
Western Institute for
Food Safety & Security

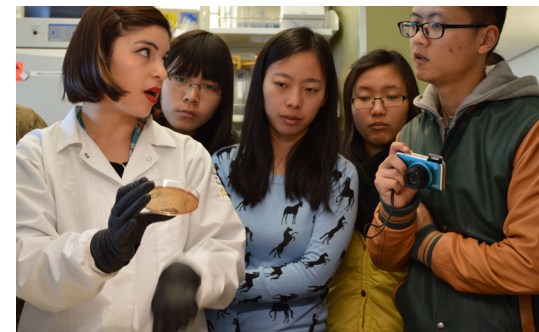
ONE HEALTH COURSES

- ✓ Agricultural Engineering
- ✓ One Health
- ✓ Graduate Application
- ✓ Animal Science
- ✓ Food Science and Technology
- ✓ Agriculture and Environmental Science
- ✓ Epidemiology



FEATURES

- ✓ All-star faculty at UC Davis
- ✓ Study abroad consultation
- ✓ Multicultural participant
- ✓ Multidisciplinary



CONFERENCE SPEAKERS



DR. BENNIE OSBURN

Director, Outreach and Training, Western Institute for Food Safety and Security
Dean Emeritus, School of Veterinary Medicine, University of California, Davis
DVM, Kansas State University
Ph.D. in Comparative Pathology, University of California, Davis
Post-Doctoral Fellowship, Johns Hopkins Medical School

Research Focus: Infectious diseases of livestock, zoonotic diseases, including foodborne pathogens, and the ecology of infectious agents.



CHRIS BRUNNER

Communications and International Programs Director, Western Institute for Food Safety and Security

Area of Focus: Written and social media communications for the institute; management of One Health conferences, symposiums, and workshops; public relations coordinator for international program activities and liaison to international student.



PROF. JORGE RODRIGUES

Professor, Department of Land, Air and Water Resources, University of California, Davis
M.Sc. in Microbiology, University of São Paulo, Brazil
Ph.D. in Crop and Soil Sciences and Environmental Toxicology, (Minor) Microbial Ecology (Dual Degree) - Michigan State University

Research Focus: Nature and ecology of microbial processes of importance in nature and of value to mankind; span from biological regulation of biogeochemical cycles and natural and agricultural ecosystems to microbial diversity and functionality in termite hindguts.



PROF. MAELI MELOTTO

Associate Professor and Vice-Chair of Agricultural Plant Biology,
Department of Plant Sciences, University of California, Davis

Research Focus: Plant-pathogen interactions, understanding the close interaction between plants and human pathogens at the molecular level.

CONFERENCE SPEAKERS



DR. MICHAEL PAYNE

Researcher and Outreach Coordinator, Western Institute for Food Safety and Security DVM, University of Georgia
Ph.D. in Comparative Pathology, University of California, Davis

Research Focus: Director of the California Dairy Quality Assurance Program, an industry, academic regulatory partnership which promotes the health and welfare of livestock, consumers and the environment through outreach, education and research.



PROF. PRAMOD PANDEY

Associate Agronomist and Associate Specialist in Cooperative Extension, Department of Population Health and Reproduction, School of Veterinary Medicine, University of California, Davis; and Assistant Cooperative Extension Specialist, Food Science and Technology
M.S., Washington State University, Pullman, and M. Tech. at Indian Institute of Technology, Kharagpur
Ph.D. from Iowa State University, Ames

Research Focus: Pathogenic bacteria transport at watershed-scale, in-stream and overland bacteria transport, watershed modeling, anaerobic digestion, renewable energy, water resources management, and rainwater harvesting.



PROF. FRANK MITLOEHNER

Professor and Air Quality Extension Specialist, Department of Animal Science, University of California, Davis
M.S., Agricultural Engineering and Animal Science, University of Leipzig, Germany
Grad studies, Animal Science, University of Goettingen, Germany
Ph.D., Animal Science, Texas Tech University, Lubbock, TX

Research Focus: Air quality (dust emission and microbial sampling in feedlot cattle and pigs), environmental physiology (heat stress in cattle and pigs), and ethology.



PROF. KATE HOPPER

Professor, Surgical & Radiological Sciences, School of Veterinary Medicine, University of California, Davis
BVSc, University of Melbourne, Australia
MVS, University of Melbourne, Australia
Ph.D., University of California, Davis

Research Focus: Occurrence and the underlying mechanisms of clinical acid-base, electrolyte and lactate disorders in animals.

CONFERENCE SPEAKERS



DR. MICHELE JAY-RUSSELL

Interim Director, Western Institute for Food Safety and Security, and Program Manager for the Western Center for Food Safety, University of California, Davis
DVM, University of California, Davis
Ph.D. in Comparative Pathology, University of California, Davis

Research Focus: Food safety, public health, molecular epidemiology of environmental enteric pathogens from domestic and wildlife species affecting people.



PROF. LUXIN WANG

Associate Professor, Food Science and Technology, University of California, Davis
Ph.D. University of Missouri

Research Focus: Microbial safety of fresh produce, aquaculture products and animal products. Her program uses conventional microbiological technologies and new precision approaches, such as comparative genomics and metagenomics, to study the behavior of foodborne pathogens and their interactions with the background microbiome.



PROF. ANDREA FASCETTI

Professor, Department of Molecular Biosciences, School of Veterinary Medicine, University of California, Davis
VMD, University of Pennsylvania, Philadelphia, PA
PhD, University of California, Davis

Research Focus: Nutrition and metabolism in companion animal; nutritional idiosyncrasies of the cat; mechanisms of obesity; amino acid, nutrient requirements in cats and dogs; improvement of pet foods; veterinary clinical nutrition-the use of nutrition in the management and prevention of disease.

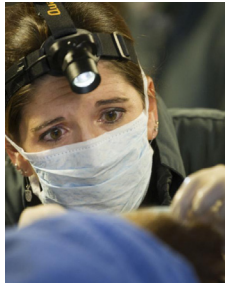


PROF. XINBIN CHEN

Professor, Department of Surgical & Radiological Sciences, School of Veterinary Medicine; Co-Leader Comparative Oncology, Comprehensive Cancer Center, University of California, Davis
BS (DVM), Anhui Agricultural University, China
MS, Nanjing Agricultural University, China
MS, Michigan State University, Michigan
PhD, Michigan State University, Michigan

Research Focus: Oncology; Director of DVM/PhD scholarship program

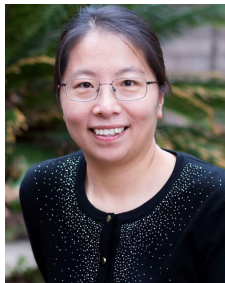
CONFERENCE SPEAKERS



PROF. JAMIE PEYTON

Chief of Integrative Medicine Service, UC Davis, Veterinary Medical Teaching Hospital
DVM, DACVECC, CVA Chief of Service

Research Focus: Acupuncture and other methods of pain management, palliative care, and physical rehabilitation (which can include rehabilitation following surgery, paralysis rehabilitation, weight loss, and canine athlete injury rehabilitation).



PROF. YANHONG LIU

Assistant Professor of Animal Nutrition, Department of Animal Science, University of California, Davis
B.S., China Agricultural University,
M.S. in Animal Nutrition, China Agricultural University
Ph.D. in Animal Science, University of Illinois, Urbana-Champaign

Research Focus: Increasing public concerns about antimicrobial resistance of food-borne bacteria impose urgent needs to seek alternatives to antibiotics in agricultural animal industry.



PROF. KRISTINA HORBACK

Assistant Professor, Department of Animal Science, University of California, Davis
M.A. in Experimental Psychology, University of Southern Mississippi, 2011
Ph.D. in Experimental Psychology, University of Southern Mississippi, 2012

Research Focus: Identification of personality traits among domestic farm animals and evaluation of relationship between personality and the assessment of an animal's physical and psychological welfare.



PROF. TRACEY GOLDSTEIN

Associate Director, One Health Institute, University of California, Davis
Director, One Health Institute Laboratory, UC Davis
Lab Director, PREDICT Project
Ph.D. in Comparative Pathology, University of California, Davis

Research Focus: Diseases in marine mammal and other wildlife populations.

CONFERENCE SPEAKERS



JAMES CULLOR

Professor Emeritus, Department of Population, Health and Reproduction, School of Veterinary Medicine
DVM, Kansas State University
Ph.D. in Comparative Pathology, University of California

Research Focus: Works extensively throughout China talking to dairymen about how to maintain animal, public, and ecosystem health, and food safety. His research focus is mastitis, neonatal diseases, vaccines, novel antimicrobial compound development and testing, and studying novel methods for controlling pathogens in milk.



PROF. ILANA HALPERIN

Health Sciences Assistant Professor of Clinical Medicine & Epidemiology, University of California, Davis
DVM, University of California, Davis, California
CVA, International Veterinary Acupuncture Society

Research Focus: Primary care and preventive veterinary medicine



GREGORY WLASIUK

E-Learning Curriculum Designer, Western Institute for Food Safety and Security
MS in English, University of California, Davis

Area of Focus: Designing online educational content for Western Institute for Food Safety and Security educational programs, development of interactive online courses and instructive videos.



HEATHER JOHNSON

Instructional Systems Designer, Western Institute for Food Safety and Security
MS in Microbiology, University of California, Davis

Areas of Focus: Oversees the instructional design component of WIFSS training and educational projects in accordance with certification standards that meet local, state and federal agency requirements. She designs blended - learning educational materials specifically using principles of adult education.

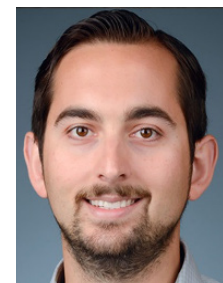
AFFILIATES

**CATHERINE BRINKLEY**

MS, VMD, PhD
Assistant Professor
Community & Regional Development
Department of Human Ecology,
University of California Davis

**RONALD F. BOND**

Water Quality Researcher, Field
Coordinator

**RICHARD PEREIRA**

PHD
Assistant Professor, Population Health
& Reproduction

**TERRY W. LEHENBAUER**

DVM, MPVM, PhD
Professor, Population Health &
Reproduction

**BEATRIZ MARTINEZ**

PHD
Associate Professor, AES (20%),
School of Veterinary Medicine

**MAURICE PITESKY**

DVM, MPVM, Dipl, ACVPM
Assistant specialist, School of Veterinary
Medicine-Cooperative Extension

**ROBERT POPPENGA**

DVM, PhD, DABVT
Professor, California Animal Health
and Food Safety Lab, Molecular
Biosciences

**XIANG (CRYSTAL) YANG**

MS, PHD
Assistant Professor and Meat Scientist
in Department of Animal Science

CORE OBJECTIVES

Our conference is based on problem-based learning. Lectures, team-building exercises and field trips have been the cornerstone of our One Health Conference since 2015. The three-fold mission of our conference is to: raise awareness, encourage team building, and bring about change through calls to action.

We welcome students who participate in this online conference to come to a conference on the UC Davis campus when it is safe to travel.



RAISE AWARENESS

Awareness of the concept of One Health makes it clear that this multidisciplinary approach is essential to solving serious foodborne illness and security problems affecting the world's population.



TEAM BUILDING

Team building is encouraged during the conferences through collaborative group projects where problem-solving skills are put to the test.



CALL TO ACTION

Students are challenged to consider something they can do to help improve food safety, animal health or environmental problem which they identify in group discussions.



APPLICATION TO GRADUATE SCHOOL

Participation in the One Health Conference will increase your chances of getting into the university of your choice! The conference includes:

- ✓ U.S. Graduate School application workshop led by Director of DVM/PhD scholarship program
- ✓ Networking sessions with current graduate students at UC Davis
- ✓ Workshops on GRE/TOEFL requirement and preparing application materials
- ✓ Exceptional students can request a letter of recommendation from the conference founder, Dr. Bennie Osburn



SUCCESS STORIES

BEYOND THE CONFERENCE

The One Health Conference has been a life-changing experience for many who have attended. Several past participants have gone on to continue their education and further their understanding of One Health at premiere universities around the world!



LU TAOTAO

- MPVM (Master of Preventive Veterinary Medicine)
- School of Veterinary Medicine UC Davis
- One Health Conference 2018



LU YANAN

- Master of Viticulture College of Agriculture and Life Sciences Cornell University
- One Health Conference 2018



PENG JINGWEN

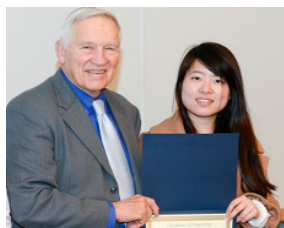
- DVM (Doctor of Veterinary Medicine)
- School of Veterinary Medicine KSU
- One Health Conference 2016

TESTIMONIALS



“Through this conference, I learned teamwork was quite indispensable.”

- PEI TONGTONG



“In Davis, I saw the other way of teaching that is very different from the way of China, which is more like great communication between students, there is no right or wrong but “ Good question.” It’s the new ability I learned in Davis that smiling to everything.”

- XU JIEV



“If we can’t ensure the safety of our food, then what else can we promise? I hope to see a world with safer food through our efforts.”

- CHEN HAO

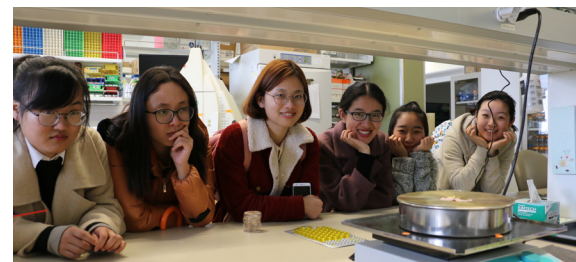


“The program made me love science and scientific research. I want to use my power to create a better world.”

- XU YIFWEN



EXPERIENCE UC DAVIS REGISTER TODAY!



APPLICATION

Fees & Expenses

Program Fee: \$2000

For students who have gotten a recommendation from their college

Scholarships can be up to \$600

Application Time

15 June 2020
Online application start

12 July 2020
Application deadline

20 July 2020
One Health Conference Begins

Requirements

Minimum GPA: 2.8 (4.0)

English:
CET-4: 470 and above
CET-6: 430 and above
IELTS: 6.0 and above
TOEFL: 80 and above

If you do not meet one of the English requirements above, you can also attend an English interview with WIFSS to also be considered.

Suggested Majors

Veterinary Medicine

Animal Science

Food Science

Agriculture

Engineering

Public Health

Social Sciences

Economics

REGISTRATION

For more information or to register for this conference, please visit:
<http://www.wifss.ucdavis.edu/onehealthconference/>

Scan One Health Conference official WeChat account QR code to connect with us.
WeChat customer service account: onehealthyyouth



PROGRAM COORDINATORS



CHRIS BRUNNER

COMMUNICATIONS AND INTERNATIONAL PROGRAMS DIRECTOR

Chris Brunner is liaison for WIFSS international programs and manages communications and marketing for WIFSS. She serves as the connection between WIFSS and two major Chinese programs involving hundreds of graduate and undergraduate students, and vocational college faculty. She plays an important public relations role in the consortium linking WIFSS, Nanjing Agricultural University, Massey University in New Zealand, and Wageningen University and Research, The Netherlands. In her role as a leader in communications and marketing over the last 6 years, she helped advance the development of a new Website. She writes blogs for Breaking News, and the Newsletter, and actively promotes news about WIFSS research and programs on social media. She has been instrumental for WIFSS's programs receiving notoriety locally as well as internationally.



cmbrunner@ucdavis.edu



MICHAEL LUO

MS

EDUCATION SPECIALIST AND INTERNATIONAL PROGRAMS COORDINATOR

Michael Luo is affiliated with UC Davis Western Institute for Food Safety and Security. He has supported the Education Conferences for One Health for Food Safety and Security as assistant to the Conference Coordinator since 2015. Mr. Luo facilitates in Problem-based Learning team building exercises, and lectures on communication skills.

With an M.S. in Agriculture Extension Mr. Luo shares concepts on agricultural extension education with students attending the One Health conferences. In his career with WIFSS, Mr. Luo promotes the One Health concept on a global basis.



mikluo@ucdavis.edu

A large, semi-transparent blue image of the UC Davis water tower is positioned on the left side of the page. The tower has a spherical top with the word "UCDAVIS" written across it in a lighter blue font. The tower's lattice structure is visible.

ONE HEALTH

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