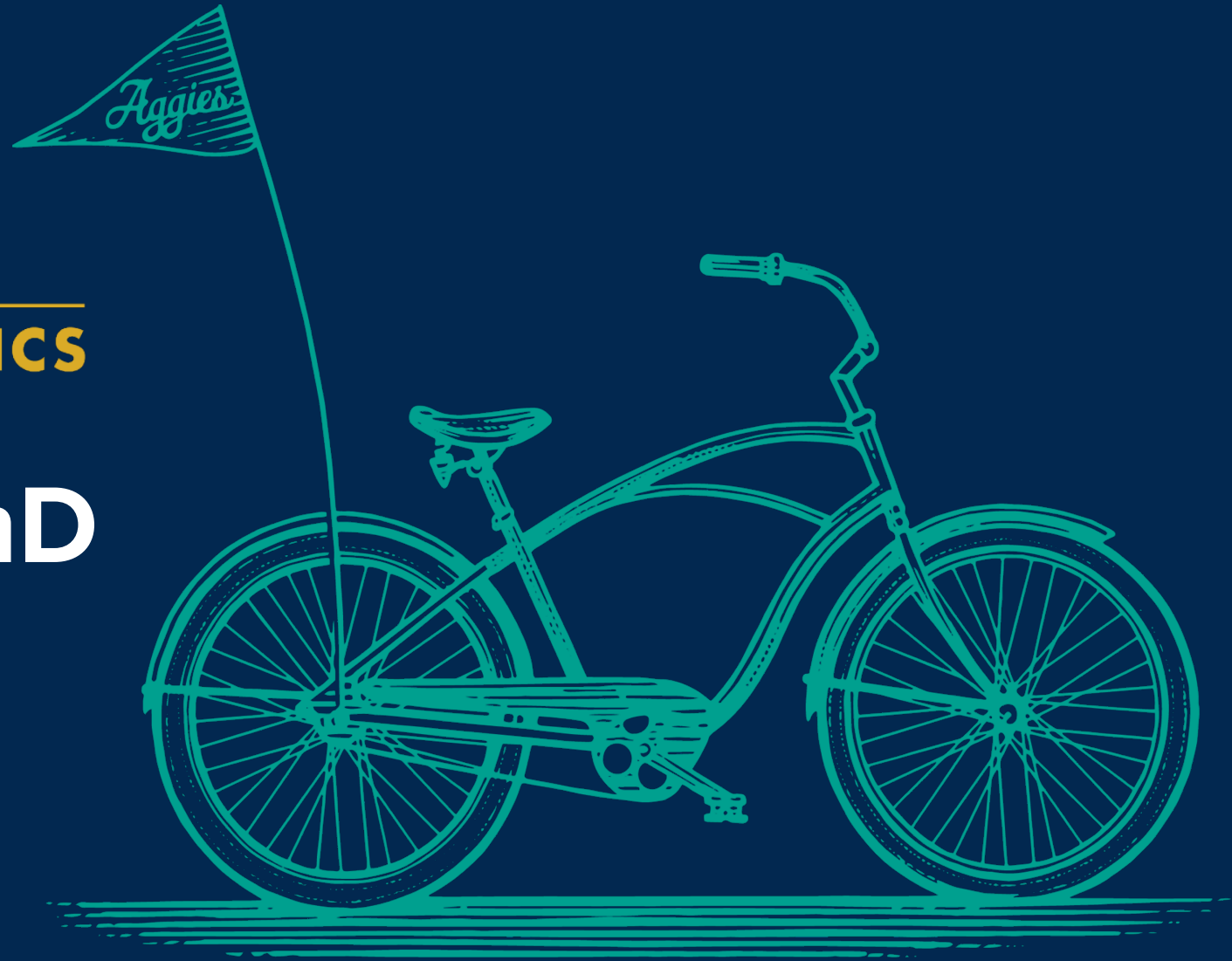


**UCDAVIS**

**DEPARTMENT OF STATISTICS**

# Master's and PhD Info Session

November 7, 2023



**UCDAVIS**

# Agenda

- Welcome
  - Jiming Jiang, Professor of Statistics & Department Chair
- Introduction to UC Davis and UCD Statistics
- Program Overviews
  - Jie Peng, Professor of Statistics, Vice Chair for Graduate Affairs, Chair of MS Admissions Committee
  - Wolfgang Polonik, Professor of Statistics, Chair of DEI Committee, Chair of PhD Admissions Committee
- Life on campus, in Davis, and in UCD Statistics
- Q&A

A white water tower with a spherical top, supported by a metal lattice structure. The words "UC DAVIS" are printed in blue on the top of the sphere. The tower is partially obscured by trees with autumn foliage in shades of red, orange, and green.

UC DAVIS

**Welcome!**

# ABOUT UC DAVIS



**UCDAVIS**

# ABOUT UC DAVIS



**20,500** Bicycles on campus a day



**40,772** Enrolled students



**4,928** Enrolled grad students



**100+** Graduate Programs



**\$1 billion**

Research funding for 2022 – 2023

# In the middle of everywhere

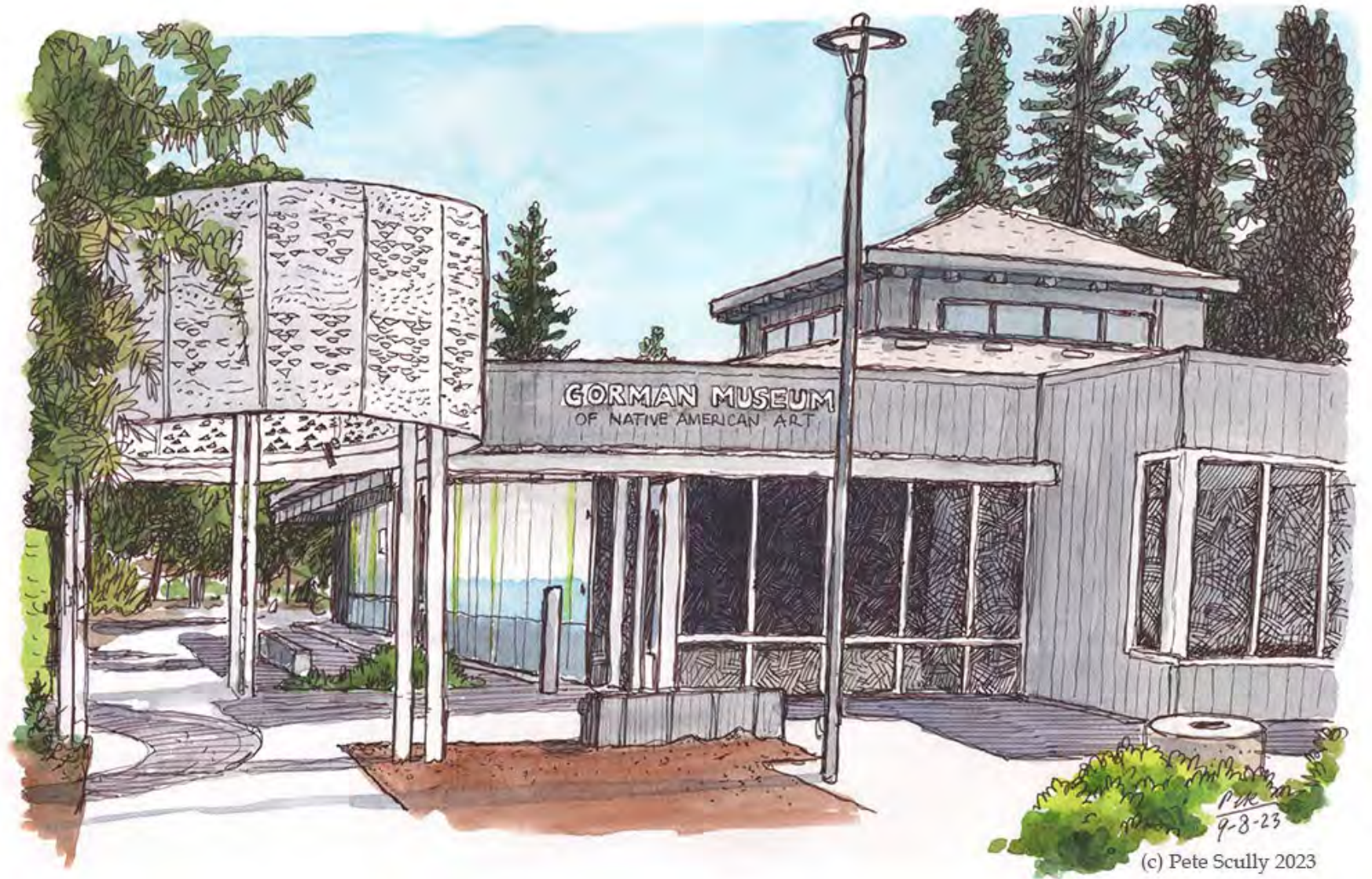
UC Davis is centrally located in Northern California. We're a day trip away from some of the most beautiful places in the world.



# UC Davis Land Acknowledgement

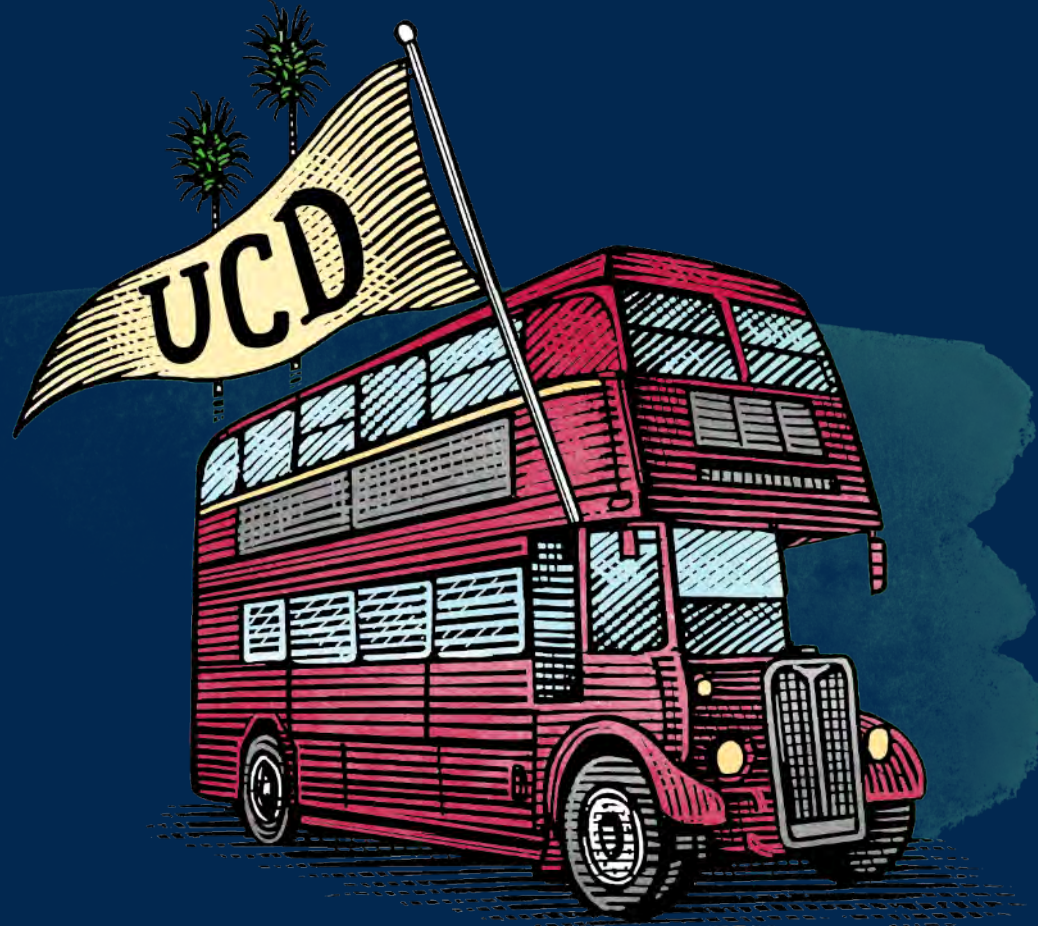
We should take a moment to acknowledge the land on which UC Davis stands. For thousands of years, this land has been the home of Patwin people. Today, there are three federally recognized Patwin tribes: Cachil DeHe Band of Wintun Indians of the Colusa Indian Community, Kletsel Dehe Wintun Nation, and Yocha Dehe Wintun Nation.

The Patwin people have remained committed to the stewardship of this land over many centuries. It has been cherished and protected, as elders have instructed the young through generations. We are honored and grateful to be here today on their traditional lands.



(c) Pete Scully 2023

# UC DAVIS STATISTICS



**UCDAVIS**



# UC DAVIS STATISTICS



**92** Master's  
students



**50** PhD  
students



**26** Faculty



Ranked 13<sup>th</sup> in the U.S.,  
tied with Yale & Cornell

Our department's strength is in theoretical research and the applied aspects of statistics, including modern data science and machine learning.

Our faculty have a wide range of research interests and are a balanced group of experts that play a major role in many campus activities and initiatives, such as transportation, genomics, and machine learning.

# Faculty Research



# Program Overview: Master's

# Program Overview: **Master's**

## **Faculty Mentorship**

Each student is paired with a faculty advisor to guide them through the program.

## **Time to Degree: 4 – 6 quarters**

### **4 quarters**

Well-prepared with a strong Math and Statistics background

### **5 – 6 quarters**

Switching focus from undergraduate degree or for students who wish to explore more Statistics courses

## **Degree Components**

### **Coursework**

Varies depending on degree track

### **Comprehensive exam**

Written exam that may include the use of statistical software

## **Tracks of Study**

### **Standard Track**

Theoretical, computational, and applied statistics.

### **Data Science Track**

Acquire knowledge and tools to address the challenge of analyzing large and complex datasets. Elective courses may include Algorithm Design & Analysis, Database Systems, Artificial Intelligence or Machine Learning

# Program Overview: PhD

# Program Overview: PhD

## Faculty Mentorship

Each student is paired with a faculty advisor to guide them through the program. As students progress and define their research focus, they find a major professor to guide their dissertation research.

**Time to Degree: ~ 5 years**

## Tracks of Study

Standard Track  
Biostatistics Track

## Degree Components

**Coursework:** 54 – 55 units

**Pre-qualifying Exam:** written exam with a theoretical part and an applied part

**Qualifying Exam:** oral exam

**Dissertation & Defense:** final oral exam

# Using Your Statistics Degree



# Using Your Statistics Degree

## You will graduate with advanced knowledge of:

- Mathematical statistics and probability
- Computational and applied statistics
- Data analysis
- Methods of research in statistics

## You will graduate with the qualitative and quantitative skills necessary for:

- Professional research
- Consulting
- Teaching

## Graduate Alumni Job Titles:

Actuarial Analyst

Assistant Professor

Business Systems Analyst

Clinical Data Scientist

Credit Risk Analyst

Data Analyst

Data Engineer

Data Scientist

Policy Analyst

Quantitative Analyst

SEM Analyst

Senior Analyst

Statistician

Statistical Analyst

Statistical Programmer





# Alumni Careers

## Biotechnology Companies

- 23andMe
- Bayer Crop Science
- Eli Lilly
- Genentech
- Merck
- Predicine, Inc.

## Financial Institutions

- Affirm Inc
- Alipay
- American Express
- Bank of America
- Capital One
- Comerica Bank
- Ernst & Young
- Mitsubishi UFJ Financial Group
- PayPal
- Union Bank
- Wells Fargo

## Tech Companies

- Adobe
- Evernote
- Facebook
- FutureWei Technologies
- Google.ai
- Google
- Ignition One
- Intel
- Kensho Technologies
- LinkedIn
- Oracle
- Snapchat
- Twitch
- Waymo
- YouGov

## Insurance Companies

- AAA
- Allstate
- CSAA Insurance Group
- Delta Dental
- Farmer's Insurance

## eCommerce & Retail

- AirBnB
- Alibaba.com
- Amazon
- Groupon
- Houzz
- Nike, Inc.
- Redbubble
- StitchFix

## Miscellaneous

- California State Public Health Department
- CalPERS
- City of Edmonton
- Lagunitas Brewing Company
- Lime
- Food and Drug Administration (FDA)
- PG&E
- Warner Bros. Entertainment

# Funding, Employment, & Tuition

# Funding, Employment, & Tuition



## PhD Program

Funding is typically offered by the Statistics department through a combination of employment and fellowships.

## MS Program

Funding is not typically offered, although MS students can apply for positions on campus.

**All applicants are eligible to apply for Internal Fellowships** offered by the office of Graduate Studies and are encouraged to do so at the time of the online application.

# Funding, Employment, & Tuition

## On-Campus

UC Davis offers several types of employment to graduate students. Students earn a salary and, depending on the type of employment, may have all or part of their fees paid as a benefit.

Grad Student Position	Salary	Tuition & Fee Remission	Nonresident Remission
Teaching Assistant (TA)	✓	✓	PhD only
Graduate Student Researcher (GSR)	✓	✓	✓
Associate Instructor (AI)	✓	✓	✓
Reader	✓	✓	
Student Assistant (STDT)	✓		

## Off-Campus

Our grad students frequently obtain internships (both paid and unpaid) with companies in the surrounding areas.

# Funding, Employment, & Tuition

Annual tuition fees below are for the 2023 – 2024 academic year.

## **California Residents:**

Tuition & Fees: \$14,559.50

Health Insurance\*: \$6,186

## **Nonresidents\*\* & International:**

Tuition & Fees: \$29,661.50

Health Insurance\*: \$6,186

\*Health insurance can be waived if you are covered elsewhere.

\*\*U.S. citizens who are not CA residents can apply for CA residency after one year.

# Admissions Prerequisites: Master's

# Admissions Prerequisites:

## Master's

1

Bachelor's degree  
with GPA of 3.0  
or higher

2

One year of  
calculus

3

One course of  
linear algebra

4

Upper division  
coursework in math  
and/or statistics

5

Familiarity with a  
programming language

6

GRE score of  
295 or greater  
(Quantitative and  
Verbal combined)

# Admissions Prerequisites: PhD



# Admissions Prerequisites:

## PhD

1

Bachelor's degree  
with GPA of 3.0  
or higher

2

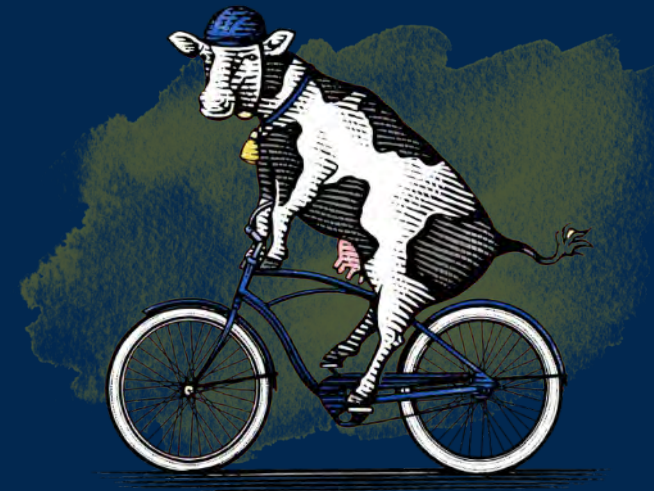
One semester or  
two quarters of  
advanced calculus  
(at a level equivalent  
to MAT 25 & MAT 125A)

3

One quarter of  
linear algebra  
(at a level equivalent  
to MAT 67)

4

GRE score of  
295 or greater  
(Quantitative and  
Verbal combined)



# Application Deadlines for Fall 2024

**PhD: December 1<sup>st</sup>, 2023**

**MS: January 15<sup>th</sup>, 2024**

# Application Deadlines for Fall 2024

**PhD: December 1<sup>st</sup>, 2023**  
**MS: January 15<sup>th</sup>, 2024**

## 3 letters of recommendation

From recommenders who can attest to:

- Your academic abilities
- Your potential for success in grad school

## Transcripts

Copies okay

## Statement of Purpose

- Your academic preparation and motivation
- Interests, specializations and career goals
- Fit for pursuing graduate study at UC Davis

## Personal History & Diversity Statement

- Purpose: to get to know you as an individual and potential graduate student
- Describe how your personal background informs your decision to pursue a graduate degree

## GRE scores

GRE score of 295 or greater (Quantitative and Verbal combined)

## Application Fee

- \$135 for U.S. applicants
- \$155 for international applicants

## International Students

TOEFL or IELTS scores required unless you have earned or will earn a degree from either a regionally accredited U.S. college/university or a foreign college/university which provides instruction solely in English.

# Life at UC Davis

A man with brown hair and a beard, wearing a light blue t-shirt and dark pants, is sitting on the ground next to a bicycle. He is looking down at a book or a map he is holding. The bicycle is lying on its side on the ground. The scene is outdoors, with a large body of water in the background and many green trees. The lighting is bright, suggesting a sunny day. The overall atmosphere is peaceful and academic.

# Life on Campus

## UC Davis Arboretum Spafford Lake

100-plus acres of demonstration gardens and scientific collections as well as the Putah Creek Riparian Reserve. Includes miles of bicycle/walking/running trails.





## Life on Campus

### **Student Resources** Walker Hall & Graduate Center

The Graduate Center houses a variety of spaces for grad students including:

- Office space
- Quiet writing room
- Parent study room
- Informal interaction areas
- Small meeting rooms
- Conference rooms for graduate student events
- Graduate Student Association Food Pantry



# Life on Campus

## Activities & Recreation Craft Center

Activities and Recreation Center: wide variety of fitness classes and facilities  
state-of-the-art recreational facility

Craft Center: classes and art studio space



## Life on Campus

### Art & Performance

#### Manetti Shrem Museum of Art

Mondavi Center for the Performing Arts

Museums & cultural centers:

- Manetti Shrem Museum of Art
- Bohart Museum of Entomology
- C.N. Gorman Museum of Native American Art
- And even more!



# Life on Campus

## Picnic Day

Picnic Day serves as the University's annual Open House for prospective and current students, families, alumni, staff, faculty, and the greater Davis and regional communities.

Events include:

- Parade
- Doxie Derby
- Chemistry Show
- Exhibits from nearly every department
- And more!





# Life on Campus ...and in Davis

## **Bicycle culture**

### UCD sheep mowers

- Bicycle capital of the U.S.
- Home of the United States Bicycling Hall of Fame
- 63 miles of bike pathways
- 102 miles of dedicated bike lanes
- 4,300 bike racks

# Life in Davis

## Downtown Davis

Walkable downtown adjacent to campus with shopping and diverse food options:

- Ali Baba Restaurant (Persian)
- Davis Creamery
- Dumpling House
- Guads Tacos & Beer
- The Hotdogger
- My Burma
- Red 88 Noodle Bar
- Sophia's Thai Kitchen
- Yeti Restaurant (Indian & Nepali)
- Zia's Delicatessen (Italian deli)
- Zumapoke





# Life in Davis

## Local Events

### Davis Music Fest

- 2<sup>nd</sup> Friday ArtAbout (monthly)
- Bike Auction (biannual)
- California Conference for the Advancement of Ceramic Art (CCACA)
- Community races and marathons (bicycle, walking, and running)
- Davis Music Fest
- Whole Earth Festival

Life in Davis

## Farmers Market

Central Park

Year-round on Saturdays at Central Park in downtown Davis, thousands gather each week to shop for what is grown, raised, and made locally at the Davis Farmers Market. Open rain or shine!

In Fall and Spring quarters students can visit the UC Davis Farmers Market on Wednesdays outside the Student Community Center.





Life in Davis

**In the middle of  
everywhere**

Putah Creek South  
Fork Reserve

Davis is close to the diverse metropolitan state capital of Sacramento, and within a two-hour drive are the beautiful Sierra Nevada mountains, Lake Tahoe, the Napa Valley wine country and the San Francisco Bay Area.

# Life in Statistics

## Friendly, supportive, and active community

### Fall Welcome Spooktacular

- Weekly seminars with UCD faculty and guest speakers from across the country
- Fun department events:
  - Tea Time on Wednesdays
  - December holiday party
  - Lunar New Year celebration
  - Spring Picnic
  - And more!



# Questions?

# statistics.ucdavis.edu



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**Thank you!**

We look forward to receiving your applications.

**UCDAVIS**