Master’s and PhD Info Session
November 7, 2023
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
Welcome!
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.
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.
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.
Program Overview: Master’s
# Program Overview: Master’s

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

## Tracks of Study

<table>
<thead>
<tr>
<th>Standard Track</th>
<th>Data Science Track</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical, computational, and applied statistics.</td>
<td>Acquire knowledge and tools to address the challenge of analyzing large and complex datasets. Elective courses may include Algorithm Design &amp; Analysis, Database Systems, Artificial Intelligence or Machine Learning</td>
</tr>
</tbody>
</table>

## Time to Degree: 4 – 6 quarters

<table>
<thead>
<tr>
<th>4 quarters</th>
<th>5 – 6 quarters</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 quarters</td>
<td>5 – 6 quarters</td>
</tr>
<tr>
<td>Well-prepared with a strong Math and Statistics background</td>
<td>Switching focus from undergraduate degree or for students who wish to explore more Statistics courses</td>
</tr>
</tbody>
</table>

## Degree Components

<table>
<thead>
<tr>
<th>Coursework</th>
<th>Comprehensive exam</th>
</tr>
</thead>
<tbody>
<tr>
<td>Varies depending on degree track</td>
<td>Written exam that may include the use of statistical software</td>
</tr>
</tbody>
</table>
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.
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.

<table>
<thead>
<tr>
<th>Grad Student Position</th>
<th>Salary</th>
<th>Tuition &amp; Fee Remission</th>
<th>Nonresident Remission</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching Assistant (TA)</td>
<td>✓</td>
<td>✓</td>
<td>PhD only</td>
</tr>
<tr>
<td>Graduate Student Researcher (GSR)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Associate Instructor (AI)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Reader</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Student Assistant (STDT)</td>
<td>✓</td>
<td></td>
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</tr>
</tbody>
</table>

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
<table>
<thead>
<tr>
<th>Admissions Prerequisites: Master's</th>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor’s degree with GPA of 3.0 or higher</td>
<td>One year of calculus</td>
<td>One course of linear algebra</td>
<td></td>
</tr>
<tr>
<td>Upper division coursework in math and/or statistics</td>
<td>Familiarity with a programming language</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td>6</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>GRE score of 295 or greater (Quantitative and Verbal combined)</td>
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</tbody>
</table>
Admissions Prerequisites:

PhD
<table>
<thead>
<tr>
<th>Admissions Prerequisites:</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>PhD</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor’s degree</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>with GPA of 3.0 or higher</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>One semester or two</td>
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<tr>
<td>quarters of advanced</td>
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<td></td>
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<tr>
<td>calculus</td>
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<td></td>
</tr>
<tr>
<td>(at a level equivalent</td>
<td></td>
<td></td>
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<tr>
<td>to MAT 25 &amp; MAT 125A)</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>One quarter of</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>linear algebra</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(at a level equivalent</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>to MAT 67)</td>
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<tr>
<td>GRE score of 295 or</td>
<td></td>
<td>4</td>
<td></td>
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<tr>
<td>greater</td>
<td></td>
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<tr>
<td>(Quantitative and Verbal</td>
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<tr>
<td>combined)</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
Application Deadlines for Fall 2024

PhD: December 1\textsuperscript{st}, 2023
MS: January 15\textsuperscript{th}, 2024
## Application Deadlines for Fall 2024

<table>
<thead>
<tr>
<th>Program</th>
<th>Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>PhD</td>
<td>December 1st, 2023</td>
</tr>
<tr>
<td>MS</td>
<td>January 15th, 2024</td>
</tr>
</tbody>
</table>

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### Requirements

<table>
<thead>
<tr>
<th>Category</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 letters of recommendation</td>
<td>From recommenders who can attest to:</td>
</tr>
<tr>
<td></td>
<td>- Your academic abilities</td>
</tr>
<tr>
<td></td>
<td>- Your potential for success in grad school</td>
</tr>
<tr>
<td>Transcripts</td>
<td>Copies okay</td>
</tr>
<tr>
<td>GRE scores</td>
<td>GRE score of 295 or greater (Quantitative and Verbal combined)</td>
</tr>
<tr>
<td>Application Fee</td>
<td>• $135 for U.S. applicants</td>
</tr>
<tr>
<td></td>
<td>• $155 for international applicants</td>
</tr>
<tr>
<td>Personal History &amp; Diversity</td>
<td>Purpose: to get to know you as an individual and potential graduate student</td>
</tr>
<tr>
<td>Statement of Purpose</td>
<td>• Interests, specializations and career goals</td>
</tr>
<tr>
<td></td>
<td>• Your potential for success in grad school</td>
</tr>
<tr>
<td></td>
<td>• Fit for pursuing graduate study at UC Davis</td>
</tr>
<tr>
<td>Statements</td>
<td>Personal History &amp; Diversity Statement</td>
</tr>
<tr>
<td></td>
<td>- Describe how your personal background informs your decision to pursue a graduate degree</td>
</tr>
</tbody>
</table>

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**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
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!
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
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

- 2nd 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
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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Amy McFarland  
Master’s Program Coordinator  
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Thank you!

We look forward to receiving your applications.