

# MS ENVIRONMENTAL SCIENCE

Information Session

Parveen Chhetri| Program Director| 23 Oct. 2023

# AGENDA

- Welcome and Introduction
- Program Overview
- Admission Requirements
- Curriculum and Courses
- Opportunities (Research, Teaching, Fellowships)
- Career Prospects
- Application Process
- Q&A Session

# WELCOME AND INTRODUCTION



## Parveen Chhetri

College of Natural and Behavioral Sciences

Department of Earth Science

**Associate Professor**

(310) 243-3731

### EDUCATION

PhD, Geography, Texas A&M University

MS, Environmental Science, Hokkaido University, Japan

MSc, Environmental Science, Tribhuvan University, Nepal

BSc, Environmental Science, Tribhuvan University, Nepal

[Biogeography and Geospatial Analysis Research Lab \(BioGeo Lab\) \(google.com\)](https://www.google.com)

# PROGRAM OVERVIEW

- The M.S. in Environmental Science is a program for leaders, thinkers and planners who can address and solve environmental challenges using interdisciplinary approaches.
- Core courses in the natural and social sciences introduce students to the unique problems of the urban environment; environmental analysis, policy and planning; and analytical skills.
- Elective courses allow students the flexibility to meet their specific interests and career goals, and real-world experience is obtained through internships.



# TWO TRACKS TOWARD MS IN ENVIRONMENTAL SCIENCES

## **Internship (Professional) track**

Primarily aimed at students who want to gain professional experience while pursuing their degree and seek immediate employment after graduating from the program.

## **Thesis (Research) track**

Primarily suited for students who want to continue on to doctoral studies and/or pursue careers in research-related agencies and industries.



# ADMISSION REQUIREMENTS

- A Bachelor of Science/Arts Degree or equivalent from a fully accredited institution. (Degree in either natural or social sciences)
- Students can satisfy recommended background by providing transcript showing four lower-division courses in fields closely related to Environmental Science (e.g., biology, chemistry, geography, geology, oceanography, physics, etc) with grades of 'C' or better.
- All students are required to have completed one lower division course in statistics or calculus.
- Grade point average of 3.0.
  - Students with GPAs between 2.5 and 2.9 in the last 60 semester (90 quarter) units, may be granted conditional admission.
- GRE is NOT required.
- International applicants are required to show English proficiency ([English Proficiency \(csudh.edu\)](https://www.csudh.edu/english-proficiency))

# CURRICULUM AND COURSES

## Degree Requirements (30 units)

At least 21 of which must be at the graduate (500-level). Students are required to maintain a grade point average of 3.0 (grade of B) or better in all courses to satisfy the requirements for the degree.

### Required Courses (24 units)

ANT 555 People, Culture and the Environment (3)  
BIO 510 Urban Environmental Science (3)  
BIO 502 Biostatistics (3)  
GEO 433 Environmental Analysis (3)  
ENV 590 Graduate Seminar (1-3)  
ENV 596 Internship in Environmental Science (3-6)  
ENV 598 Directed Research (1-3)  
ENV 599 Thesis (3)

### Electives (6 units)

GEO 405 Advanced Cartography (3)  
GEO 408 Remote Sensing (3)  
GEO 412 Rivers and Streams (3)  
GEO 415 Geographic Information Systems (3)  
GEO 416 Earth's Climates (3)  
GEO 420 Natural Resources (3)  
EAR 410 Environmental Geology (3)  
EAR 460 Global Change (3)  
EAR 476 Groundwater (3)

**Note:** For students enrolled in the Internship Option, ENV 596 Internship in Environmental Science will be repeated to substitute ENV 599 Thesis

# RESEARCH OPPORTUNITIES



**Dr. Parveen Chettri** is an Assistant Professor in the Department of Earth Science & Geography. He teaches courses in Geographic Information Systems and Earth Science. His areas of research interests are Biogeography, Climate Change and Vegetation Response, Mountain Environment, and Geospatial Technology.



**Dr. John Keyantash** is an Associate Professor in the Department of Earth Science and Geography, with a specialization in hydroclimatology. He researches drought, using statistical methods to quantify the severity of drought. He is also interested in the timing and quantity of California streamflow, using geographic information systems to analyze the spatial coverage of stream gages within remote drainage basins. He has also used numerical models to estimate the potential effects of climate change on California salmon populations. He earned his Ph. D. in Civil Engineering (Water Resources Engineering) from UCLA in 2001.



**Dr. Ashish Sinha** is the current program coordinator. His research is a part of a large international collaborative effort that seeks to quantify the Earth's natural climate variability on a wide range of time scales. To this end, he and his colleagues employ the state-of-the-art climate models and stable isotope geochemistry of cave-calcrete deposits (speleothems) to generate records of past climate from sites across the globe.



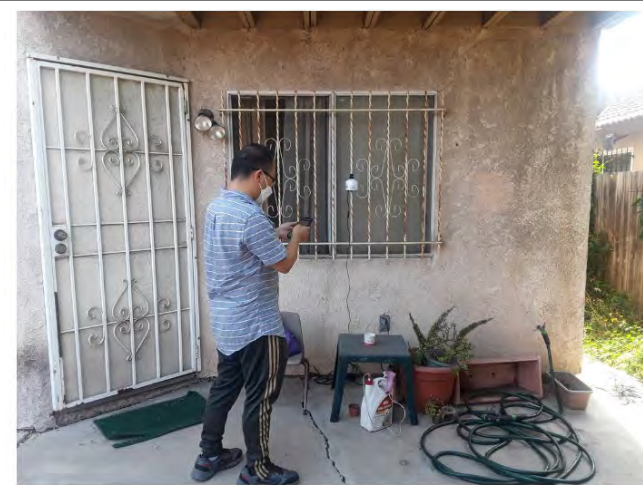
**Dr. Tianjun Lu** is an Assistant Professor in the Department of Earth Science and Geography. Dr. Lu's research interests center on using geospatial analysis, data science, and sensor technologies to develop health-promoting cities and communities. To date, his scholarly contribution falls into three areas: (1) quantifying spatial patterns of air quality for exposure assessment, (2) assessing urban form's impact on air quality, and (3) measuring and modeling non-motorized traffic. He is currently working on developing next-generation urban air quality models with crowd-sourced and new data sources for the contiguous US and exploring active transportation amid COVID-19. An overarching research goal is to ensure the work can improve neighborhood sustainability, facilitate environmental justice, and engage local communities.



# RESEARCH OPPORTUNITIES



- Air Pollution
- Forest Ecology
- Climate Change
- Environmental Justice
- Transportation
- Solid Waste Management
- Paleoclimatology



# TEACHING ASSOCIATE OPPORTUNITIES



**EAR 101 (Physical Geology Lab)**

# GRADUATE FUNDING OPPORTUNITIES

## Graduate Equity Fellowship (GEF)

To increase the diversity of students completing graduate degree programs, encourage further study in doctoral programs, and promote consideration of university faculty careers.

The program is designed to do so by providing financial support to graduate students with strong academic records. Fellowships range from \$500 to \$4500 for the academic year. The maximum grant period for any student is two years.

## Graduate Research Advancement & Development (GRAD)

Research field trip/lab, and conference travel related funds.

## The Chancellor's Doctoral Incentive Program (CDIP)



[Graduate Student Funding Opportunities \(csudh.edu\)](https://www.csudh.edu/graduate-student-funding-opportunities)

# CAREER PROSPECTS



# HOW MUCH IT COST?

## Accessibility and Affordability

- 3rd Most Affordable College or University in California – EdSmart.com (2024)
- 3rd in California for lowest student loan debt – LendEDU (2021)
- 5th Best Bang for the Buck Universities-West – Washington Monthly (2023)
- 6th Least Student Debt Load among Regional Universities-West - U.S. News & World Report (2022-23)
- 11th Lowest Student Debt among public universities in the nation – LendEDU.com (2021)
- 19th Best College for Veterans among Regional Universities-West – U.S. News & World Report (2023-24)
- 24th Lowest Student Debt among national universities – LendEDU.com (2021)
- 44th Best Value School – CollegeConsensus.com (2022)
- 51st Best Public College – Money (2022)

[Fees | CSUDH | Carson, CA](#)

[FY2023-2024 Student Fees.pdf \(csudh.edu\)](#)

# APPLICATION PROCESS – STEP 1

## CAL STATE **APPLY**

With 23 universities spanning the state, and thousands of degrees to choose from, the CSU offers you more choices and connections than any other public higher education institution in the nation. One application opens infinite possibilities. Start your journey today.

Fall 2024



Apply

<https://www.calstate.edu/Apply>

Only accepts applications for ONLY FALL SEMESTERS.  
The application deadline for the Fall semester is **March 1st**.

# APPLICATION PROCESS – STEP 2

— CAL STATE —  
**APPLY**


## Welcome to The California State University


Thank you for your interest in The California State University. You can apply for the 2024-2025 cycle here, including Fall 2024, Winter 2025, Spring 2025, and Summer 2025. [Click here to apply to the 2023-2024 cycle.](#)

To determine the exact deadline for your desired program, visit the [Application Dates & Deadlines](#) page.

Refer to the [Applicant Help Center](#) for additional information, including [browser requirements](#). Here, you can chat with us for live support.

Sign in with your username and password below. First time here? Select Create an Account to get started.

 pchhetri@csudh.edu

 .....

**Sign In**

**Create an Account**

[Forgot your username or password?](#)

[Reapplying to The California State University?](#)

**New Account using  
your email**



# APPLICATION PROCESS – STEP 3

## Extended Profile

Please provide some additional information in order to set up your application.

The information below is provided to your program's admissions offices. Provide complete and accurate information here. For more information, visit the [Applicant Help Center](#).

Once you submit your application, you cannot edit this section.

\* Indicates required field

### 1. Degree Goal

\* What degree, credential or certificate are you applying for?

- First Bachelor's Degree (Seeking your first bachelor's degree and have not earned a prior bachelor's degree)
- Second Bachelor's Degree and Beyond (e.g. Master's, Teaching Credential, Certificate, Doctoral)
- CSU Summer Arts

\* Please select one or more of the following degree goals.

- Second Bachelor's Degree (already earned a bachelor's degree and are seeking another one)
- Graduate (e.g. Master's, Doctoral) or Professional's Degree
- Teaching and Service Credential Only (e.g. Single or Multiple Subject, Special Education, PPS, Librarian, Admin, CalStateTEACH)
- Certificate

### 1a. Returning

\* Are you applying to return to the CSU campus which you previously attended, and intend to complete the same major?

- Yes  No

### 2. US Military Status

\* Have you ever served in the United States military?

No. I have not served in the US military

### 3. International Applicant

\* Do you have or will you require an **F1 Visa (student)** or **J1 Visa (exchange)** to study at the California State University (CSU)?

- Yes  No

\* What U.S. State/Possession do you regard as your permanent home?

California



# APPLICATION PROCESS – STEP 4



[← Back to Extended Profile](#)

## Add Programs

You must select at least one program to begin your application. Use the search filters below to locate programs by **Campus Name**, **Start Term**, **Delivery**, and **Source**. When using the Search field, results are limited to matching on program name or organization (i.e., Fullerton Undergraduate). You can add additional Due to CSU enrollment pressures, campuses may offer very limited Lower Division and Second Baccalaureate programs. Be sure to review campus-specific program [dates and deadlines](#).

Application fees for some undergraduate programs may be waived based on [eligibility](#). Once you fully complete your application, click on the **Submit Applications** tab to review your fee waiver status.

Programs with a Source of Extended Education are offered by Extended and Continuing Education on each campus. Programs offered through Extended Education are not eligible for automatic application fee waivers and may have different tuition and fee structures.

[Find Program](#) | [View Selected Programs](#)



[Filters](#)



DOMINGUEZ HILLS GRADUATE							
<a href="#">+</a>	Environmental Science	CSU Dominguez Hills	MS	Fall	2024	Main Campus	03/01/2024



DOMINGUEZ HILLS GRADUATE							
<a href="#">✓</a>	Environmental Science	CSU Dominguez Hills	MS	Fall	2024	Main Campus	03/01/2024

EAST BAY GRADUATE							
<a href="#">+</a>	Environmental Geosciences	Cal State East Bay	MS	Fall	2024	Main Campus	06/01/2024

[Continue](#)

# APPLICATION PROCESS – STEP 5

[← Add More Programs](#)

## Review Your Program Selections

Below are the programs you have selected. If you are ready to start your application, click the Continue To My Application button below. Missing a Program? Click Add More Programs. You can add more programs at anytime.

APPLICATIONS READY FOR SUBMISSION

0

TOTAL FEE(S)

\$70.00

[Continue To My Application >](#)

Sort By

Deadline

Dominguez Hills Graduate

Term: Fall

Environmental Science

Deadline: 03/01/2024



# APPLICATION PROCESS – STEP 6

**Add Program** **Submit Application**

## My Application

This dashboard is your application home providing access to each part of the application you need to complete and a high level overview of your progress.

**Latest Notifications**

Welcome to the Cal State Apply application (save this email!) Today

**View My Notifications**

**Personal Information**  
0/7 Sections Completed

**Academic History**  
0/3 Sections Completed

**Supporting Information**  
0/1 Sections Completed

**Program Materials**  
0/1 Sections Completed

The email address you used to create your Cal State Apply account is the email that will receive communications and next steps for all campuses you apply to. If your email address changes, [notify those campuses](#) immediately.

# APPLICATION PROCESS – STEP 6

My Application

This dashboard is your application home providing access to each part of the application you need to complete and a high level overview of your progress.

Latest Notifications

Welcome to the Cal State Apply application (view this email)

View My Notifications

Personal Information 0/1 Sections Completed

Academic History 0/3 Sections Completed

Supporting Information 0/1 Sections Completed

Program Materials 0/1 Sections Completed

## Personal Information

0/7 Sections Completed

- Release Statement
- Biographic Information
- Contact Information
- Citizenship/Residency Information
- Race & Ethnicity
- Other Information
- Financial and Parental Information

## Academic History

0/3 Sections Completed

- Colleges Attended
- Standardized Tests
- GPA Entries

My Application Add Program

## Experiences

0/1 Sections Completed

Enter your professional employment experiences in several categories, or types, in this section. List your military service and present employers, if applicable. Do not include summer and part-time work not relevant to your career or academic goal. Visit the [Baccarat Info Center](#) for more information.

Once you submit your application, you cannot edit previously entered experiences. You can add new experiences and update ones that are in progress.

[Add an Experience](#)

[I Am Not Adding Any Experiences](#)

# APPLICATION PROCESS – STEP 6

**My Application**

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**View My Notifications**

**Personal Information** 0/1 Sections Completed

**Academic History** 0/1 Sections Completed

**Supporting Information** 0/1 Sections Completed

**Program Materials** 0/1 Sections Completed

CALIFORNIA STATE UNIVERSITY, DOMINGUEZ HILLS

**My Application** **Add Program**

**BE A TORO**

Environmental Science **Deadline: 03/01/2024**

Home Questions Documents Recommendations

**Environmental Science**  
Dominguez Hills Graduate

## M.S. in Environmental Science

### Program Mission

The M.S. in Environmental Science is an interdisciplinary program housed in the College of Natural and Behavioral Science (NBS). Our mission is to prepare leaders, thinkers and planners who can address and solve environmental challenges using interdisciplinary approaches. Because of our location, the emphasis of the program is on the urban environment. Core courses in the natural and social sciences introduce students to the unique problems of the urban environment; environmental analysis, policy and planning; and analytical skills. Elective courses allow students the flexibility to meet their specific interests and career goals. Real-world experience is obtained through internships in governmental, non-governmental, or other organizations.

### Two Tracks Toward MS in Environmental Sciences

The program currently offers two different tracks for degree completion. The conventional 'Thesis' (Research) track is primarily suited for students who want to continue on to doctoral studies and/or pursue careers in the research-related agencies and industry. The 'Internship' (Professional) track (i.e., without the thesis option) is primarily aimed for students who want to gain professional experience while pursuing their degree and seek immediate employment after graduating from the program. Currently, the program is only accepting students in the Professional Track. Potential students interested in the Research Track will be considered but are strongly advised to consult with the Program Coordinator before applying to the program.

### Career Possibilities

Employment opportunities are available in government agencies, particularly in the areas of environmental protection and management; water, sewer and power-generation utilities; analytic laboratories; environmental and engineering firms; private industry management; and non-profit organizations.

### Transcripts

You will need to order official transcripts for the courses you claim to have completed on the [Cal State Apply](#) university application. **Official transcripts from all previously attended institutions** (for degrees and the prerequisites) must be submitted to the CSUDH Office of Admissions by the posted Document Deadline (which is the same date as the Application Deadline). *Electronic official transcripts from domestic institutions are encouraged and preferred to be sent to [admissions@csudh.edu](mailto:admissions@csudh.edu)*

*Transcripts are considered official only when sent directly from the issuing institution to the CSUDH Office of Admissions.*

California State University, Dominguez Hills  
Office of Admissions  
1000 E. Victoria Street, WH-290  
Carson, CA 90747

## Program Details

Program Name: <b>Environmental Science</b>	Source: <b>Campus</b>	Campus Name: <b>CSU Dominguez Hills</b>
Degree Type: <b>MS</b>	Delivery Format: <b>Face to Face</b>	Start Term: <b>Fall</b>
Academic Year: <b>2024</b>	Degree Level: <b>Graduate</b>	Deadline: <b>March 1, 2024</b>

# APPLICATION PROCESS – STEP 7

**BE A TORO**

Environmental Science Deadline: 03/01/2024

Home Questions Documents Recommendations

Save

\* Indicates required field

### ▼ Dominguez Hills Graduate Questions

The answers to these questions will be submitted as part of your application to all Dominguez Hills Graduate Programs.

**!** If you have already answered questions for another of this school's programs, you will see your previous answers below. Changing your answers here will apply those changes to all of this school's programs.

#### Housing Inquiry

Please complete the question below. Your response will not have any effect on your admission decision.

\* Where do you plan on living during the 2024/2025 academic year?

On campus  Off campus, not with family  With parents/family

#### Supplemental Questions

\* How did you hear about this program?

\* Do you hold a BA or BS degree in either natural, physical, or social sciences from an accredited university with a minimum grade point average of 3.0.

Yes  No

\* Is your GPAs between 2.5 and 2.9 in the last 60 semester (90 quarter) units.

Yes  No

\* Have you completed one lower division course in statistics or calculus with a grade of 'C' or better in their undergraduate program?

Yes  No

\* Have you completed four lower-division courses in fields closely related to Environmental Science (e.g., geography, geology, chemistry, oceanography, etc) with grades of 'C' or better in their undergraduate program?

Yes  No

\* Have you meet the Graduation Writing Assessment Requirement (GWAR)?

Yes  No

\* Do you plan on taking the Graduation Writing Assessment Requirement (GWAR) exam with our university?

Yes  No

# What are your career goals and how are they related to the MS in Environmental Science Program?

0 word 0/1000

\* Did your personal statement tell the admissions committee about your personal biography, educational journey, and your research interests as related to the MS in Environmental Science?

Yes  No

**GWAR is needed for graduate students. Just click Yes**

# APPLICATION PROCESS – STEP 7



## Documents

Master's degree candidates are required to submit a personal statement. Your personal statement should tell the admissions committee about your personal biography, educational journey, and your research interests as related to the MS in Environmental Science. Additionally, you might tell us why you were interested in our specific program and what your ultimate goal after receiving your masters.

Additional documentation is only requested but not required. We request that you submit an unofficial transcript online to enable a faster review of your application. Whether you submit an unofficial transcript you will still need to submit your official transcripts to the Office of Admissions.

You are also welcomed to submit your writing samples to support your application, although not required unless requested to be submitted by the admissions committee.

### UPLOAD TIPS

 <b>Review Uploaded Documents</b> The uploading process may have altered your formatting. Please review before submitting.	 <b>Accepted File Types</b> .doc, .docx, .pdf, .rtf, .txt, .jpg, .png, .png. The size limit for each file upload is 15MB.	 <b>Do Not Password Protect Your Documents</b> Protected documents will not be sent with your application.	 <b>Conceal Your Social Security Number (SSN)</b> Only use correction fluid or a redacting marker to conceal your SSN before uploading.
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\* Indicates required field

### Required Documents

**Personal Statement**

[+ Add Document](#)

### Optional Documents

**Writing Sample**

[+ Add Document](#)

**Unofficial Transcript**

[+ Add Document](#)



## Recommendations

Master's degree candidates are encouraged, but not required to submit up to two (2) letter of recommendations. These letters of recommendations will be both a short questionnaire and an optional letter upload. These recommendations need to come from academic experts (professors) who can speak to the candidate's academic preparation for graduate school.

Once you have saved an electronic recommendation, an email will automatically be sent to the recommender on your behalf. Please advise your recommender to look for this email in their inbox, as well as their spam or junk folder, as emails do occasionally get filtered out.

The intent of these letters will be to support your application and are highly encouraged if you feel you have weaknesses in your application.

Once you have saved an electronic recommendation, an email request will automatically be sent to the recommender on your behalf. Please advise your recommender to look for this email in their inbox, as well as their spam or junk-mail folder, as emails do occasionally get filtered out.

[I Am Not Adding Any Recommendations](#)

**General Program with Letter Upload** 0 required - 2 total allowed

[+ Add General Program with Letter Upload Recommendations](#)

**Note:**  
**Recommendation letters are not needed**

# CONTACT

**Students with questions about program should contact:**

Parveen Chhetri, PhD

Associate Professor, Department of Earth Science & Geography

Program Director, M.S. in Environmental Science Program

T: (310) 243-3731 | Email: [pchhetri@csudh.edu](mailto:pchhetri@csudh.edu)