

ENVIRONMENTAL SCIENCE AND STUDIES NEWSLETTER



READ

DIBS HOPES YOU HAD A GREAT FIRST WEEK
OF CLASS!

FAIR TRADE CLUB: CLOTHING SWAP DONATIONS

A hand-drawn poster for a clothing swap event. The text on the poster reads: 'Fair Trade Club Clothing Swap Donations', 'January 22 4-7PM DePaul Student Center', and 'Go to @depaulfairtradecommittee for details'. It also includes the instruction: 'Donate gently used or new clothing (washed) to the DePaul clothing swap and those in need.' At the bottom, there are illustrations of people participating in a clothing swap, with labels 'SUSTAINABILITY NEVER GOES', 'THRIFTING', and 'OUT OF STYLE'. The email address 'Email: ftc@depaul.edu' is also present.

ENV STUDENT HANDBOOK

IMPORTANT DATES:

FRIDAY, JANUARY 12

DEADLINE TO ADD CLASSES TO WQ2024
SCHEDULE

FRIDAY, JANUARY 19

LAST DAY TO DROP WQ2024 CLASSES WITH
NO PENALTY

MONDAY, JANUARY 15

MARTIN LUTHER KING DAY - UNIVERSITY OFFICIALLY
CLOSED

RECENT PUBLICATIONS FROM OUR OWN DR. OCLOO!

LOOKING INTO HER WORK IN AGROFORESTRY AND GLOBAL SUSTAINABLE AGRICULTURE

Dr. Ocloo specializes in social-ecological systems in agricultural landscapes, particularly the intersection of where environmental and social factors affects food systems in Black communities in the United States and in Africa. Featured today are two publications from Dr. Ocloo herself where these topics are center stage!

Trends in Agroforestry Research over four Decades showcases the meta-analysis of literature on agroforestry from 1980 to 2020, focusing on “4 key themes of the social dimensions of agroforestry transitions: (1) agreements and policies; (2) scales and decision-making agents; (3) knowledge, culture, and equity; and (4) frameworks and methods” and their frequency of appearance. This fascinating report came to a few conclusions like “how the framing and focus of agroforestry research has shifted from conservation and development toward biodiversity and climate change” and while the scale of agroforestry projects has increased the social issues surrounding have not been increasing in the same way.

Mapping current and future habitat suitability of Azolla spp., a biofertilizer for small-scale rice farming in Africa is a look into using a type of aquatic fern (Azolla spp.) to grow alongside rice plants on African farms. Azolla provides the rice plants with a ton of different benefits like nitrogen fixation, nutrient regulation, etc. and is currently seen already in rice fields in Asia. They “synthesized 189 field and greenhouse studies from around the world that quantified temperature-dependent growth of *A. pinnata* and *A. filiculoides* and developed present and future climate suitability maps at the continental scale” and concluded that using these maps showing suitability of Azolla in Africa “would get us closer to understanding how to build a more sustainable world by understanding key interactions between humanity and nature”



EXAMPLE OF WHAT
AN AGROFORESTRY
SITE
(ECOMATCHER)



THE FEATURED
COMBINATION OF
AZOLLA AND RICE
GROWN TOGETHER
(PHILIPPINE RICE
RESEARCH INSTITUTE)

STAFF SPOTLIGHT: TY FERGUSON

ENV'S NEW ADMINISTRATIVE ASSISTANT

Hi Everyone!

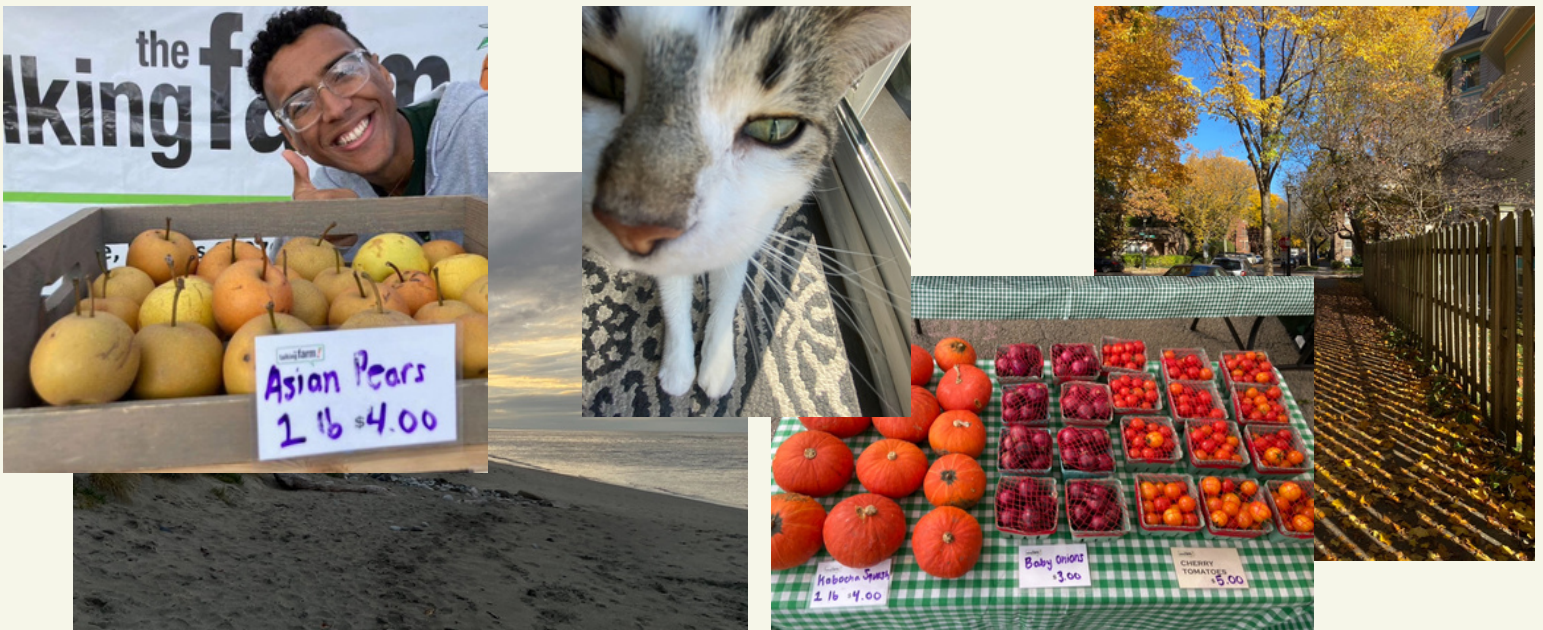
My name is Ty Ferguson, and I am the new ENV Administrative Assistant! I wanted to take advantage of this Staff Spotlight and introduce myself to everyone far and wide across the department. Some quick facts about me are that I graduated from Loyola University with degrees in Environmental Science and Studies (I also minored in Anthropology because I found it wildly interesting). In school I dipped my toes in a variety of different areas of environmentalism. I spent time in a biodiesel lab working on converting used vegetable oil into useable fuel and a ton of different products like soap! But I would say my main interest was in the world of urban agriculture.

So much so that after graduation I worked for The Talking Farm close by in Skokie, IL where I was their Farmer's Market Coordinator. I had such a great time working on the farm and getting the chance to lead interns and connect with the broader Chicagoland community with our produce! I still love urban ag but am beyond excited to be here at DePaul. The ENV department, students, and faculty/staff are so innovative and fantastic that I cannot wait to get to work.

You'll find me in McGowan South 203 with my door (and email) always open if anyone has any questions! I will also be taking over the newsletter so if you have any stories or events or anything you want showcased don't be afraid to send it to me!

I am so stoked to be here and will get to know everyone very soon as classes start next week! Now, enjoy a little photo collage of my life.

-Ty Ferguson



UPCOMING CAMPUS EVENTS AND OPPORTUNITIES!

2024 ILLINOIS LSAMP CONFERENCE

Are you a STEM undergraduate student who is African American, Hispanic American, American Indian, Alaska Native, Native Hawaiian, and/or Native Pacific Islander? Are you or do you want to be involved in research? Do you want to learn how to overcome barriers to succeed in STEM? Do you want to know different career paths for STEM majors? If so, the 2024 Illinois LSAMP Symposium is for you!

Registration is now open for the 2024 Illinois LSAMP Symposium on February 23 – 24, 2024 at the Hyatt Regency Schaumburg, IL.

By 5 pm on Friday, February 2, 2024 please let qshelby@depaul.edu know if you want to attend and/or give a presentation at the symposium so that SHE can reserve your hotel room.

In order to register you, SHE will need the following information:

- First Name
- Last Name
- Email address
- Phone number
- Age
- Dietary Restriction (Vegan, Vegetarian, Gluten-Free, Dairy Free, Other)
- Plan to stay at the hotel (Yes/No)

The deadline to submit your presentation abstract is 5 pm on Monday, February 5, 2024. A FAQs sheet, abstract details, and poster guideline (if you are giving a presentation) are attached.

2023 EXCELLENCE IN RESEARCH AWARDS COLLOQUIUM

We are excited to present the colloquium of our 2023 Excellence in Research Awards! Please join us in-person or via Zoom to celebrate the recipients and learn about their research:

Tuesday, January 23, 2024, 12pm-1:50pm
Arts & Letters Hall 103 and Zoom:
<https://depaul.zoom.us/j/92061289095>

RSVP by **January 16th** (Lunch will be provided)

Dr. Susan D. McMahon, Psychology
Understanding and Addressing Educator-Directed Violence through National Research, Collaboration, and Policy

Dr. Kyle A. Grice, Chemistry and Biochemistry
Tackling Climate Change with Chemistry – CO2 Reduction Research at DePaul

CSH EXCELLENCE IN RESEARCH AWARDS COLLOQUIUM

January 23, 2024


12p-1:50p

Arts & Letters Hall 103 and Zoom:

<https://depaul.zoom.us/j/92061289095>

RSVP by January 16th!

Lunch will be provided



THE CENTER for TREE SCIENCE

The Morton Arboretum | THE CHAMPION of TREES

Research Experiences for Undergraduates (REU)

Integrated Tree Science for the Anthropocene
Summer 2024



Experience careers that explore solutions for climate change, biodiversity loss, natural resources management, and urban life at one of the nation's only research centers focused on trees.

CONDUCT RESEARCH IN TREE SCIENCE

- Discover new career opportunities.
- Learn from a PhD-level mentor and become incorporated into a working scientific lab group.
- Gain scientific experience and skills you can use anywhere.
- Choose from field, lab, and computer-focused internships.

RESEARCH AREAS

- Evolutionary biology
- Ecosystems ecology
- Conservation biology
- Horticulture science
- Plant health care and development
- Botany/plant biology

TEN-WEEK RESEARCH PROGRAM INCLUDES:

- \$6,250 stipend funded by the National Science Foundation.
- Housing, research supplies, and travel.
- Workshops in science communication and professional development.

DATES AND APPLICATION

Program Dates: May 28 through August 2, 2024
Application Dates: December 4, 2023 through February 2, 2024
Program and Application Information: <https://mortonarb.org/reu>

WHO SHOULD APPLY:

Students who are interested in biology, environmental science, genetics, chemistry, ecology, botany, natural resources, horticulture science, and engineering. We encourage applicants from colleges and universities where research opportunities are limited, groups traditionally underrepresented in STEM programs, first- and second-year undergraduates, persons with disabilities, and veterans.

LOCATION
 The Morton Arboretum
 4100 Illinois Route 53, Lisle, Illinois
 25 miles west of Chicago, Illinois




For more information and to learn about other opportunities in the Integrated Mentorship Program at The Morton Arboretum, visit the website mortonarb.org, or call 630.775.2495.

Holistic Wellness Development Program

HPW
The Office of Health Promotion and Wellness



Introducing our exciting Holistic Wellness Development Program - for students interested in improving their personal well-being through the 8 Dimensions of Wellness: intellectual, occupational, financial, environmental, physical, emotional, spiritual, and social!

Here's how it works:

Through participating in this program, students will meet with the Office of Health Promotion & Wellness Clinical Intern, remotely or in-person, to set goals, share resources, support progress, and reflect on their mental health and well-being.

Please scan the QR Code to schedule a meeting!



THE MORTON ARBORETUM - SUMMER REU PROGRAM

The Center for Tree Science Research Experiences for Undergraduates (REU) program is now accepting applications for summer 2024. The program includes a \$6,250 stipend, covers housing and travel expenses, and runs from May 28 to August 2, 2024. The program uses trees as model systems to investigate questions related to evolution, ecology, conservation, and management in natural and built environments.

APPLICATIONS ARE DUE FEBRUARY 2, 2024 (11:59 PM ET).

-APPLY NOW-

HPW HOLISTIC WELLNESS DEVELOPMENT PROGRAM

The Holistic Wellness Development Program is for students interested in improving their personal well-being through the 8 Dimensions of Wellness: intellectual, occupational, financial, environmental, physical, emotional, spiritual, and social! Through participating in this program, students will meet with the Office of Health Promotion & Wellness Clinical Intern, remotely or in-person, to set goals, share resources, support progress, and reflect on their mental health and well-being.

Scan the QR code or click the link [HERE](#)

SUMMER UNDERGRAD INTERN - CHICAGO BOTANIC GARDEN

We provide budding scientists opportunities to participate in all stages of research and build science communication skills to grow personally and professionally.

Participants will be trained in all stages of research, from hypothesis formulation through experimental design, data collection, analysis, and ultimately presentation of results through a public poster and video symposium. The program encourages interns to participate in a near-peer mentoring network which includes high schoolers to Ph.D. level scientists. Additionally, there may be opportunities to present at national scientific meetings or publish findings in peer-reviewed journals.

Learn more [HERE](#)

APPLICATIONS ARE DUE FEBRUARY 9, 2024

GARDEN CLUB OF AMERICA SCHOLARSHIPS

The Garden Club of America is a nonprofit national organization composed of 199 member garden clubs with almost 18,000 club members who devote energy and expertise to projects in their communities and across the United States. Founded in 1913, the GCA is a leader in horticulture, conservation, creative arts, historic preservation, and environmental protection.

The purpose of The Garden Club of America is to stimulate the knowledge and love of gardening, to share the advantages of association by means of educational meetings, conferences, correspondence, and publications, and to restore, improve, and protect the quality of the environment through educational programs and action in the fields of conservation and civic improvement.

You can find specific scholarships for a variety of different subject areas! Both graduate and undergraduate opportunities available.

Learn more [HERE](#)

FELLOWSHIP & INTERNSHIP POSITION - CITIZENS' CLIMATE LOBBY

CCL is a national nonprofit organization that builds grassroots support for climate legislation.

We are currently recruiting students and recent graduates to join our team as interns or fellows. We have opportunities with a variety of different departments that may appeal to students across many disciplines. These experiences provide valuable work experience, networking opportunities, and may include academic or financial benefits.

Learn more [HERE](#)

-APPLICATION DEADLINE FEBRUARY 15, 2024-



GREEN FILM CONTEST SEEKS SUBMISSIONS!

SUBMIT YOUR ENTRY BY JUNE 25, 2024

The One Earth Young Filmmakers Contest (non-profit) is free for students to enter, and prizes go up to \$1,000 in scholarships, plus matching gifts. The contest started in Oak Park but is now international. Students from universities all over Chicago have won in the past including DePaul!

Anyone ages 8-25 can enter the contest to create a short environmental film that inspires change and action. Learn more about this great opportunity At: <https://www.oneearthfilmfest.org/contest-details>

A poster for the Young Filmmakers Contest 2024. It features a hand holding a globe, with a tree growing from the globe. The text includes: 'YOUNG FILMMAKERS CONTEST 2024', 'Submit Your Film', 'WIN UP TO \$1,000 SCHOLARSHIPS and cash prizes. Plus, \$1,000 matching gifts for sustainability organizations of your choice.', 'Third grade through post grad with cash prizes at every level: elementary school, middle school, high school, college and post grad. Create a short environmental film that inspires change or action. Win a premiere screening at the Gene Siskel Film Center in September 2024 and/or at the One Earth Film Festival in March 2024. Show off your talents. Make your resumé and/or college application sparkle with your award. Filmmaking workshops. Attend our Online Academy or in person youth workshops.', 'FOR DETAILS & QUESTIONS GO TO oneearthfilmfest.org/contest-details', 'DISCLAIMER: Distribution of information by a community group in accordance with a school district's policy does not imply, directly or indirectly, that the group's program(s), event(s) and/or service(s) is sanctioned, sponsored or endorsed by the district, the Board of Education or the superintendent.', 'one earth YOUNG FILMMAKERS CONTEST', 'Submissions accepted now through June 25, 2024', 'ONE EARTH FILM FESTIVAL • ONEEARTHFILMFEST.ORG'.

GIS INTERN - CLARKE

Are you passionate about GIS and desire to make a difference in your community? Clarke, a company committed to sustainable solutions for mosquito management, is seeking a dynamic GIS Intern to join our team!

Flexible position located in Roselle, IL. \$18-20/hr, M-F, 6 month position with possible extension. FEBRUARY START DATE!
Shared by a previous DePaul Alum!

Learn more [HERE](#)

YALE CONSERVATION SCHOLARS

The Yale Conservation Scholars – Early Leadership Initiative (YCS- ELI) is a paid summer opportunity for undergraduates interested in conservation. YCS-ELI is dedicated to creating a diverse environment that uplifts and supports students traditionally underrepresented in conservation and interested in careers in the sector. Candidates of any identity and background are welcome to apply.

The program application deadline is **Monday, January 15th, at 11:59 pm EST.**

Learn more and apply [HERE](#)

PAID SUMMER INTERNSHIP - PURDUE

The Rosen Center for Advanced Computing (RCAC) CI-STEP student program is seeking students for our Anvil Summer '24 Research Experiences for Undergraduates (REU) paid internship program.

This program aims to develop the next-generation workforce in advanced computing and cyberinfrastructure technologies.

Four different internship projects offered for the Summer of 2024 where you'll work on a team and stay on site in West Lafayette.

Any major or background encouraged to apply!

Learn more [HERE](#)



The Rosen Center for Advanced Computing (RCAC) CI-STEP student program is seeking students for our Anvil Summer '24 Research Experiences for Undergraduates (REU) paid internship program. This program aims to develop the next-generation workforce in advanced computing and cyberinfrastructure technologies. Anvil Summer '24 REU is a fully immersive program, offering students from diverse backgrounds the opportunity to gain the knowledge and skills necessary to build and support advanced research computing systems and scientific applications. Modeled after the RCAC's decade-long successful student apprenticeship program, the REU students will learn by doing, working on the National Science Foundation-funded Anvil system in a team environment all while being mentored by cyberinfrastructure professionals.

Internship Projects

- Streamlined Software: Automating user-requested software deployment on Anvil using agile technologies**
The REU will work on creating web-based tools to automate Spack configuration, software deployment, and testing.
- Unlocking the Impact of Data: The Power of the Dashboard**
In this project, you will break down barriers to data, making complex data more accessible, and transforming the way we handle user resource allocation and code performance information on Anvil.
- Gromacs Gateway: Creating User-friendly Molecular Simulations Online**
This project sets an eye toward integrating Gromacs seamlessly with the Anvil OOD portal to start the process of creating a one-stop-shop for Anvil users' Gromacs needs.
- AI-Powered Operational Data Analytics: Enhancing User Experience on Anvil**
Using AI and machine learning, the REU students will build a replicable and explainable model to predict job queue times and integrate it into Anvil's job submission functions.

COMMUNITY STEWARDSHIP PROGRAM – THE NATURE CONSERVANCY

This role would be working directly with the CSP Manager to support the volunteer stewards that care for park district natural areas and the more than 4000 volunteers that attend workdays every year. The work is varied and involves; ensuring volunteers have necessary supplies, helping facilitate workdays, engaging with the public, battling invasive species, and everything in between. In short, this person is both a behind the scenes wizard ensuring smooth operations and an ambassador for Chicago's natural areas and the communities and people that care for them.

This is a part-time (20 hours/week), permanent position at \$21.68/hr. It will be another shared role between TNC and the Chicago Park District and reports to the CSP Manager. The application closes on **January 19, 2024 at 11:59 PM EST.**

Learn more [HERE](#)



OPENLANDS ARBORIST REGISTERED APPRENTICESHIP PROGRAM

The Arborist Registered Apprenticeship is a 3-year training program administered by Openlands in partnership with the Department of Labor and Tree Care Companies across the Chicago region. The Apprenticeship coordinates with the industry to improve recruitment and retention and create a path to welcome more diverse and experienced applicants.

At the same time, the program introduces participating apprentices to a diverse array of career opportunities in Arboriculture and Urban Forestry, all while being paid, gaining credentials, and professional training by certified arborists in the field.

Learn more [HERE](#)



MS PROGRAM -PURDUE UNIVERSITY FORT WAYNE

The Department of Biological Sciences at Purdue University Fort Wayne is accepting applications for Fall 2024 admission to our Master of Science degree program. Faculty within the department teach courses and conduct research in areas of population and community ecology, organismal physiology, cellular biology, genetics, and molecular biology.

A limited number of teaching assistantship positions (TAs) are available from the department. TAs receive a stipend (~\$14,069/academic year) and a significant tuition reduction. These positions are awarded on a competitive basis, thus acceptance into the program does not guarantee receipt of a TA position.

Fall 2024 admission and consideration for a TA position application deadline is **February 15, 2024**. Start your application at <https://gradapply.purdue.edu>

Learn more [HERE](#)

MASTER'S STUDENT RESEARCH ASSISTANT - CALIFORNIA STATE UNIVERSITY, MONTEREY BAY

Are you passionate about environmental science, microbiology, molecular methods and looking to make a significant impact?

Join the research team at California State University, Monterey Bay (CSUMB) and contribute to the critical field of microbial bioremediation. We are seeking an enthusiastic and highly-motivated individual to fill a funded Master's Graduate Student Research Assistant position who would play a key role in our project focused on the bioremediation of pesticides using bacteria and support ongoing work on the implementation and development of pesticide-remediating bioreactors for local agricultural lands.

Interested candidates should first submit the following materials to Dr. Nate Jue - njue@csumb.edu:
Cover Letter & Resume/CV, Transcripts, & Contact information for two academic or professional references.

Application Deadline: **February 1, 2024**