SPRING 2024

THE BIO BUZZ

THE LOWDOWN IN BIO TOWN

SPRING IS SPRINGIN'!

CAMPUS IS, ONCE AGAIN, IN FULL BLOOM! THE HAWKS HAVE RETURNED TO THEIR NEST ON ST. ELIZABETH'S CLOCKTOWER, THE AIR SMELLS DELICIOUS WITH FLOWERING CRABAPPLE TREES, AND THE SUN FEELS WARM ON YOUR SKIN. IT IS TRULY A BEAUTIFUL TIME OF YEAR!

THIS SEMESTER TEAM BIO HAD ANOTHER STRONG SHOWING DURING AWARD SEASON! MANY OF OUR FACULTY AND STAFF HAVE BEEN HONORED FOR THEIR HARD WORK AND DEDICATION AND WE ARE SO PROUD TO SHARE THEIR ACCOMPLISHMENTS IN THIS ISSUE.

THIS FRIDAY, APRIL 26TH, MARKS THE 13TH ANNUAL MSU DENVER UNDERGRADUATE RESEARCH CONFERENCE. THIS YEAR BIO MAJORS ACCOUNT FOR **29** PRESENTATIONS; THAT'S 30% OF THE TOTAL PRESENTATIONS BEING GIVEN THIS YEAR. WAY TO REPRESENT TEAM BIO!! BE SURE TO SWING BY TO SUPPORT OUR RESEARCH STUDENTS AT THE JORDAN STUDENT SUCCESS BUILDING FROM 9AM-4:45PM.

WITH ANOTHER COMMENCMENT ON THE HORIZON, IT FEELS BITTERSWEET TO SAY GOODBYE TO OUR GRADUATING SENIORS. SO MANY OF THEM HAVE ACCOMPLISHED SO MUCH IN THE FACE OF REAL CHALLENGE. CONGRATULATIONS TO THE CLASS OF 2024 - YOU DID IT! AND WE COULDN'T BE PROUDER! IT'S YOUR TIME TO FLY!!

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Welcome to Team BIO!
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TEAM BIO SAYS...

welcome!

KAILY MEEK
AFFILIATE FACULTY

HI Y'ALL! I'M KAILY, ORIGINALLY HAILING FROM COASTAL TEXAS. I OBTAINED MY BA FROM MSU DENVER AND PURSUED FURTHER STUDIES, CULMINATING IN AN MS IN ENVIRONMENTAL BIOLOGY FROM REGIS UNIVERSITY. MY PASSION LIES IN BIRD CONSERVATION, STRIVING TO PROVIDE INDIVIDUALS WITH THE KNOWLEDGE NECESSARY TO MAKE WELL-INFORMED DECISIONS ABOUT THEIR ENVIRONMENT.

DURING MY TIME AT MSU DENVER, I HAD THE OPPORTUNITY TO BE A TEACHING ASSISTANT IN ANIMAL BEHAVIOR AND LATER A LEARNING ASSISTANT IN ORNITHOLOGY. RETURNING TO MY ALMA MATER AS AN AFFILIATE FACULTY MEMBER FILLS ME WITH EXCITEMENT AND A SENSE OF HOMECOMING.

DURING MY FREE TIME, YOU'LL OFTEN FIND ME ENJOYING QUALITY TIME WITH MY HUSBAND AND OUR FUR BABIES, OR ENTHUSIASTICALLY PLANNING OUR NEXT INTERNATIONAL ADVENTURE.

SHOUT OUT

BIO Hall of G.O.A.T.s

DENISE DAPHNE
BIOLOGY ADVISOR

CLAS Award -
Advisor of the Year

Certified G.O.A.T. Status

Certified G.O.A.T. Status

DR. JONATHAN DYHR
PROFESSOR IN BIOLOGY

CLAS Award -
Dr. Ibon Izurieta
Excellence in Service Award

Golich Award -
Open Educational Resource
Champion Award

SHOUT OUT

BIO Hall of G.O.A.T.s

DR. KRISTY DURAN
DIRECTOR OF UNDERGRADUATE RESEARCH & PROFESSOR IN BIOLOGY

Roadrunners Who SOAR Award

Certified G.O.A.T. Status

Certified G.O.A.T. Status

DR. JENNIFER GAGLIARDI-SEELEY
DEPARTMENT CHAIR & PROFESSOR IN BIOLOGY

Roadrunner Shoutout Award
February 2024

STUDENT & ALUMNI SPOTLIGHT

CONGRATULATIONS, LIZETH!

DR. RAMIREZ-GORDILLO'S MENTEE, **LIZETH HERNANDEZ**, WAS ACCEPTED TO PARTICIPATE IN THE SUMMER RESEARCH EXPERIENCE FOR UNDERGRADUATES (REU) IN THE MOLECULAR BIOSCIENCES PROGRAM AT COLORADO STATE UNIVERSITY (CSU).

DURING THIS 8-WEEK SUMMER PROGRAM, LIZETH WILL WORK IN DR. TOM SANTANGELO'S LAB IN THE MICROBIOLOGY DEPARTMENT. SHE WILL ASSIST IN RESEARCHING MEMBERS OF THE ARCHAEA KINGDOM AND THEIR REGULATION OF TRANSCRIPTION FROM A GLOBAL PERSPECTIVE TO A DETAILED STRUCTURE-FUNCTION ANALYSIS OF THE ARCHAEAL RNA POLYMERASE.

STUDENT & ALUMNI SPOTLIGHT

CONGRATULATIONS, LEAH!

LEAH VITALE, BIO ALUMNA AND PREVIOUS RESEARCH STUDENT OF DR. JENNIFER GAGLIARDI-SEELEY, WAS RECENTLY ACCEPTED INTO OKLAHOMA STATE UNIVERSITY'S OKLAHOMA NETWORK-RESEARCH AND MENTORING POST-BACCAAUREATE (ON-RAMP) PROGRAM. THIS PROGRAM PROVIDES ONE YEAR OF PAID FULL-TIME RESEARCH, MENTORING, AND TRAINING IN THE BIOLOGICAL SCIENCES FOR RECENT COLLEGE GRADUATES. LEAH WILL BE WORKING IN DR. BO ZHANG'S LAB WHERE SHE'LL WORK IN THE FIELD TO DETERMINE IF POPULATIONS OR DISTRIBUTIONS OF FISH WITH DIFFERENT MOVEMENT STRATEGIES WILL VARY IN A GRADIENT OF CONTAMINATION AND RESOURCE.

"WILDLIFE BIOLOGY IS SUCH A COMPETITIVE FIELD AND YOU MUST WORK A LOT OF SEASONAL AND TEMP JOBS JUST TO GET YOUR FOOT IN THE DOOR. SO I FEEL VERY LUCKY TO HAVE GOTTEN A YEAR-LONG POSITION FOR MY FIRST JOB. I CAN'T WAIT TO SEE HOW MANY OTHER DOORS OPEN UP FOR ME IN A YEARS' TIME."

~LEAH VITALE

Congratulations

LIDET REDA

SPRING 2024
CLAS BIOLOGY
GRADUATE HONOREE

LIDET IMMIGRATED FROM ETHIOPIA AND WAS RAISED BY HER SINGLE MOTHER ALONG WITH HER THREE SIBLINGS. LIDET WORKED WITH AN AFRICAN RESETTLEMENT COMMUNITY TO HELP REFUGEES WHILE SHE WAS A STUDENT AT MSU DENVER.

ALTHOUGH SOME PEOPLE IN LIDET'S ETHIOPIAN COMMUNITY CHURCH TOLD HER THAT BECAUSE SHE IS A WOMAN SHE COULD NOT BE A DENTIST...SHE CURRENTLY HAS A 4.0 GPA, IS A PATTON SCHOLAR, A BIO 1090 TUTOR, AND A WORK-STUDY STUDENT SETTING UP BIO 1090 LABS. LIDET HAS RECEIVED ACCEPTANCE LETTERS FROM ALL THE DENTAL SCHOOLS SHE APPLIED TO DURING HER JUNIOR YEAR!

LIDET CAME IN AS A VERY SHY STUDENT THAT HAD TO OVERCOME IMPOSTER SYNDROME, BUT UNDER DR. ARIJANA BARUN'S GUIDANCE, HAS WORKED VERY HARD THROUGHOUT HER YEARS AT MSU DENVER AND HAS FINALLY REALIZED THE IMPORTANT ROLE SHE PLAYS IN HELPING OTHER BIOLOGY STUDENTS. CONGRATULATIONS, LIDET!

Congratulations

ELINA BIALIK

SPRING 2024
CLAS BIOLOGY
GRADUATE NOMINEE

ELINA WAS BORN AND RAISED IN JAPAN AND MOVED HERE 4 YEARS AGO.
ON TOP OF BIG CULTURAL DIFFERENCES, THE LANGUAGE BARRIER WAS ONE OF THE HARDEST OBSTACLES TO OVERCOME ON THE ROAD TO ACHIEVING A GPA OF 3.93 AND COMPETING WITH OTHER PRE-MEDICAL STUDENTS.

ANOTHER LIFE OBSTACLE FOR ELINA WAS BEING A MEMBER OF THE LGBTQ+ COMMUNITY; IN JAPAN THEY DO NOT ACCEPT LGBTQ+ AND OFTEN CHIP AWAY AT YOUNG LGBTQ+ MEMBER'S CONFIDENCE. ELINA LEARNED HOW TO FIGHT FOR HERSELF, NEVER GAVE UP ON MAKING HER DREAM COME TRUE, AND PROVED THAT IF YOU PUT ALL YOUR EFFORT IN, ANYTHING IS POSSIBLE.

ELINA HAS BEEN DR. HAY'S LA FOR A&P I AND II LABS FOR THE PAST 2 SEMESTERS. SHE IS ALWAYS WELL-PREPARED AND ANTICIPATES DR. HAY'S EVERY MOVE. HER DISSECTIONS FOR DEMONSTRATIONS ARE PRISTINE AND SHE ACCURATELY ASSISTS THE STUDENTS WITH THEIR OWN DISSECTIONS. HER INTERACTIONS WITH STUDENTS IN LAB ARE ALWAYS FILLED WITH INCLUSIVITY, ENCOURAGEMENT, AND WARMTH. ELINA IS ALSO AN HONOR'S STUDENT, AND HER THESIS IS ON AN ENDOCRINOLOGY PROJECT ABOUT THE THYROID HORMONE. SHE IS GRADUATING IN MAY WITH A BS IN BIOLOGY AND A MINOR IN CHEMISTRY AND IS APPLYING TO MEDICAL SCHOOL OVER THE SUMMER. ELINA HAS THE INTELLIGENCE AND SCIENTIFIC CURIOSITY TO BE A LIFELONG LEARNER AND CONTRIBUTE GREAT THINGS TO SCIENCE AND SOCIETY.

HOT OFF the PRESS

Dr. Jonathan Dyhr

Cracking the Code: Using Educational Gaming for High-Level Thinking In Physiology Education

Authors: Joel Roberts, Lise A. Johnson, and Jonathan P. Dyhr

Journal Name: Advances in Physiology Education

https://journals.physiology.org/doi/full/10.1152/advan.00154.2023

The multidisciplinary nature of physiology requires students to acquire, retain, apply, and evaluate knowledge from different scientific disciplines. Optimal learning techniques, such as active learning, interleaving topics and conditions, and recall, can greatly enhance the speed and effectiveness with which students achieve this type of higher-order thinking. However, developing and implementing optimal learning techniques in the classroom can be both time-intensive and challenging for the instructor. In addition, students may be resistant or slow to accept novel learning processes. One way to potentially introduce these learning techniques in a fun and engaging way is through educational gaming, or using a game or game elements intentionally to support learning. In this article we present an easy-to-implement adaptation of the Codenames board game for the physiology classroom. The activity requires minimal preparation while addressing high-level learning outcomes. Results suggest that participating in the activity both actively engaged the students and pushed them toward high-level, integrative thinking regardless of class level.

Team BIO OUT 'n' about

Dr. Daniel Ramirez-Gordillo

Dr. Ramirez-Gordillo was awarded a travel award to attend the HSI STEM Hub Adelante! Conference that took place in Albuquerque, New Mexico this past March. He presented his research entitled “Activation of hippcampal PV interneurons at distinct phases of theta oscillations stimulates changes in phase amplitude coupling”. In addition, he engaged in discussion with different professors on better ways of addressing issues facing Hispanic Serving Institutions.

Team BIO

OUT 'n' about

Dr. Kristy Duran was invited to speak at a couple of conferences this spring. One hosted on March 30th by the San Luis Valley Seed Exchange where she gave a talk titled “Plants and Ethnobotany of the San Luis Valley”, a topic she knows intimately as a sixth generation native of the valley.

On April 6th, Broomfield High School hosted their Women’s Leadership Conference where Dr. Duran was one of the speakers. Her talk was titled “Unmasking Imposter Syndrom: Understanding and Overcoming Self-Doubt in the Workplace”.

Dr. Kristy Duran

BIO 400C: TROPICAL FIELD BIOLOGY

JANUARY 2024

TWENTY MSU DENVER STUDENTS TRAVELED WITH DR. GAGLIARDI- SEELEY AND DR. CARELLO TO COSTA RICA IN JANUARY 2024 FOR A TROPICAL FIELD BIOLOGY COURSE. THEY TRAVERSED THE COUNTRY FROM CARIBBEAN COAST TO THE PACIFIC EXPERIENCING LOW-LAND AND UP-LAND TROPICAL RAINFORESTS, CLOUD FORESTS, TROPICAL DRY FORESTS, AND PACIFIC CORAL REEFS.

HIGHLIGHTS INCLUDED SEEING BOTH TWO-TOED AND THREE-TOED SLOTHS, MIST-NETTING BOTH BIRDS AND BATS, AND LEARNING ABOUT SUSTAINABLE TOURISM AND AGRICULTURE. THROUGHOUT THE TRIP, THEY GOT TO EXPERIENCE THE LOCAL CUISINE WITH HOME-COOKED MEALS, WORKED WITH CONSERVATIONISTS, AND LEARNED SO MUCH ABOUT THE PEOPLE AND THE ECOSYSTEMS OF COSTA RICA.

INFORMATION ON THE NEXT COURSE (JANUARY 2026) WILL BE AVAILABLE DURING SPRING SEMESTER 2025. ¡PURA VIDA!

Fun in the Field!

GREAT GREEN MACAW

CLASS TIME!

TWO-TOED SLOTH, LIVING HIS BEST LIFE!

IGUANA

PHOTOS TAKEN BY RIMLY BAUER - FUTURE NATIONAL GEOGRAPHIC PHOTOGRAPHER

A parting gift...

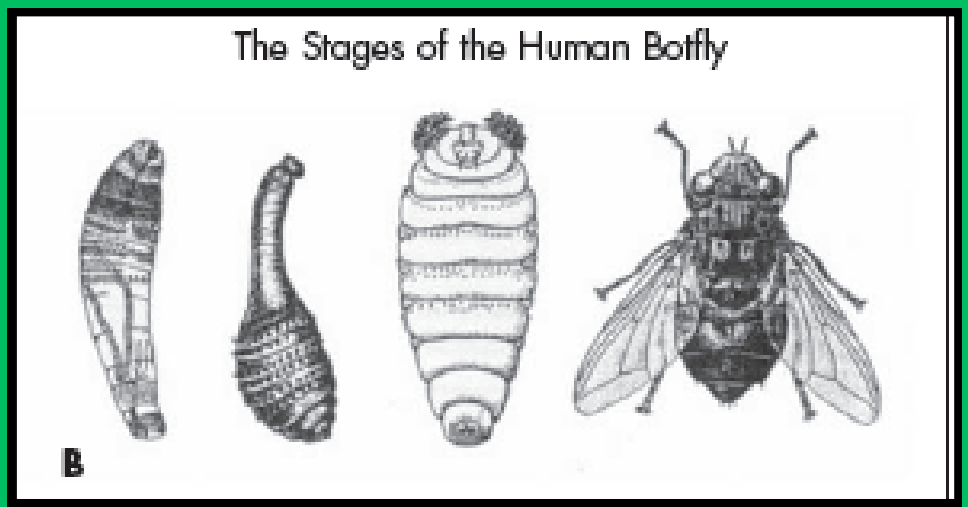
TAKE ME WITH YOU!

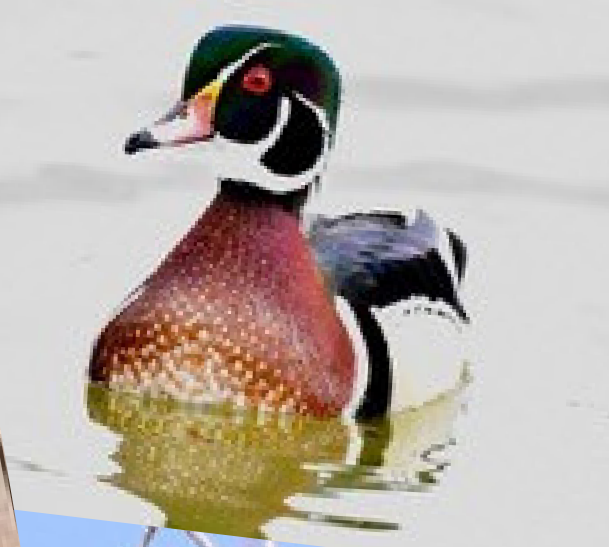
AFTER ANOTHER SUCCESSFUL CLASS TRIP TO COSTA RICA CONCLUDED, DR. GAGLIARDI-SEELEY RETURNED HOME TO DISCOVER THAT SHE'D BROUGHT A FRIEND BACK WITH HER! YEP...A HUMAN BOTFLY!

FOR THE LONGEST TIME, SHE COULDN'T FIGURE OUT WHY HER FOOT HURT. AFTER VISITING A FEW DOCTORS, NOTHING CAME BACK CONCLUSIVE...THAT IS UNTIL SHE TOOK MATTERS INTO HER OWN HANDS! AFTER SQUEEZING THE OPENING WHERE ONE OF THE DOCS HAD PREVIOUSLY GONE LOOKING, OUT CAME A DEAD BOTFLY LARVA! HUZZAH!

WELL, AS ANY SELF-RESPECTING BIOLOGIST WOULD DO, SHE RECRUITED A COLLEAGUE (PROFESSOR GIASOLLI) TO GET A CLOSE UP SHOT WITH A MICROSCOPE. TAKE A LOOK AT THAT! OUCHIE!

NEVER A DULL MOMENT IN BIO TOWN FOLKS!



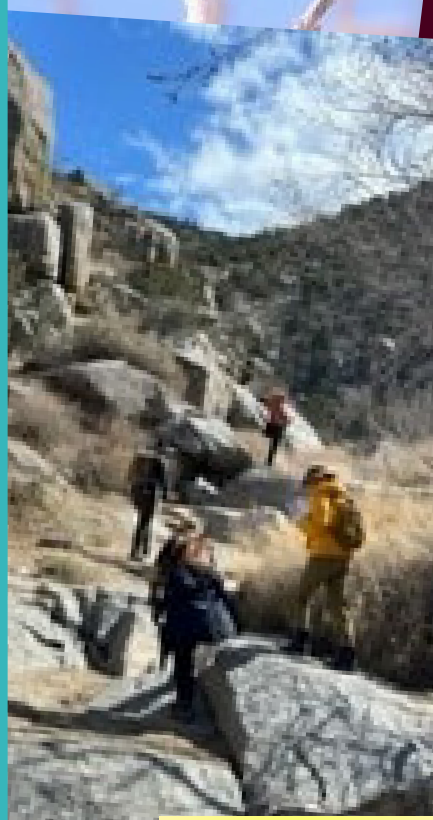


BIO 3280 FIELD ORNITHOLOGY

DR. CARELLO'S FIELD ORNITHOLOGY COURSE TRAVELED TO NEW MEXICO DURING SPRING BREAK TO STUDY AND LEARN ABOUT THE BIRDS FOUND THERE IN EARLY SPRING.
MANY OF THE BIRDS ARE MAKING THEIR WAY TO COLORADO FROM EVEN MORE SOUTHERN WINTERING GROUNDS.

THE GROUP SAW MORE THAN 80 SPECIES OF BIRDS, WHICH INCLUDED OUR MASCOT THE GREATER ROADRUNNER, A GOLDEN EAGLE, SANDHILL CRANES, WOOD DUCKS AND A COUPLE SPECIES THAT NEVER MAKE IT FARTHER NORTH THEN NEW MEXICO INCLUDING GAMBLE'S QUAIL AND A VERMILLION FLYCATCHER. STUDENTS MET WITH LOCAL BIRDERS AND TOOK PRIDE IN PREPARING FABULOUS MEALS EVERY NIGHT.

LOOK FOR THIS COURSE TO BE OFFERED AGAIN DURING MAYMESTER 2025!



BIRD PHOTOS TAKEN BY RIMLY BAUER - FUTURE NATIONAL GEOGRAPHIC PHOTOGRAPHER

COMING UP!

13th Annual

Undergraduate Research Conference

https://bit.ly/3lW625v

A Symposium of Scholarly Works & Creative Projects

April 26th, 2024 8:30am- 4:45pm

Jordan Student Success Building

Keynote Speaker

Gregg Deal

"Art is Medicine: Contemporary Art through Indigenous Eyes"

12:15pm in the Tivoli Turnhalle

Questions? Contact: undergradresearch@msudenver.edu

Metropolitan State University

Undergraduate Research & Creative Scholarship Program

UNDERGRADUATE RESEARCH CONFERENCE
BIOLOGY MAJOR PRESENTATIONS

ORAL PRESENTATIONS - 9:00AM-10:30AM
JSSB - ROOM 200

NAME	TITLE	MENTOR
HADDEL DAHABREH	PRELIMINARY FINDINGS ON SABETHES TREE-HOLE DWELLING LARVAE AND THEIR CRYPTOBIOTIC BEHAVIORS	HANCOCK
LAURA FARNSWORTH & DREW BENDER	UNDERSTANDING NORTHERN SHOVELER FEEDING BEHAVIOR AND ITS IMPLICATIONS FOR WATERFOWL CONSERVATION IN THE DENVER METRO AREA	CARELLO
ELEANOR MANCILLA	VARIATION OF LACTATE DEHYDROGENASE WITH RELATION TO THE HEAT SHOCK RESPONSE OF ONCORHYNCUS CLARKII STOMIAS	PETCOFF
CHRISTOHPER WICKER	THE INFLUENCE OF OPERATIONAL SEX RATIO ON PAIR-BOND FORMATION AND MATING BEHAVIOR IN THE CONVICT CICHLID (AMATITLANIA NIGROFASCIATA)	GAGLIARDI-SEELEY

COME SUPPORT OUR BIO MAJORS!

UNDERGRADUATE RESEARCH CONFERENCE
BIOLOGY MAJOR PRESENTATIONS

POSTER PRESENTATIONS - 10:30AM-NOON
JSSB MEZZANINE

NAME	TITLE	MENTOR
BRITTANY BROWN & MAGEE HEADLEY	THE EFFECT OF EMERALD ASH BORER ON AMBIENT AND GROUND TEMPERATURES	BISSELL & GAGLIARDI-SEELEY
KATHERINE CAMBIER	FOOD SOURCE AVAILABILITY AS AN INFLUENCE FOR WINTER FORAGING SITE SELECTION IN NORTHERN SHOVELERS	CARELLO
NICOLETTE COUTURE	DEVELOPMENT AND TESTING OF AN UNDERWATER CAMERA SYSTEM TO MEASURE THE HEALTH OF CORALS BY RECORDING FLUORESCENCE FROM ALGAL CORAL SYMBIONTS	HANCOCK
FROST GORDON	GENERATION OF A HERITABLE LOSS OF FUNCTION MUTATION IN THE NDNF GENE	MELVIN
MARIA GREEN & BROOKE PASLAY	ADVANCEMENTS IN THE QUEST TO IDENTIFY A CORAL GENE SEQUENCE	CATTELL
KRISTEN GUSTAFSON, SARAH BROADWELL & THOMAS CHANDLER	FLIGHT (PATTERNS) OF THE BUMBLEBEE: EFFECTS OF COLOR AND MOTION	DYHR
ZAINAB HUSSAIN & AMY NASH	DISTINGUISHING BETWEEN TOP-DOWN AND BOTTUM-UP EFFECTS OF INVASIVE CRAYFISH ON COMMUNITY STRUCTURE USING STABLE ISOTOPE ANALYSIS	KOLTS
JESSICA LEE	EXPRESSION PATTERN OF THE NDNF GENE IN ZEBRAFISH CRANIOFACIAL DEVELOPMENT	MELVIN

UNDERGRADUATE RESEARCH CONFERENCE
BIOLOGY MAJOR PRESENTATIONS

POSTER PRESENTATIONS - 10:30AM-NOON
JSSB MEZZANINE

NAME	TITLE	MENTOR
VICTORIA MAKKIYA	THE INFLUENCE OF THE GUT MICROBIOME ON MENTAL DISORDERS	GIASOLLI
DOMINIQUE MALOTT & TAGWA ALSANOUSI	OPTIMIZATION OF BACILLUS CALMETTE-GUERIN AND RAW 264.7 CELLS	MERRIAM
PEYTON MINNER	GENE EXPRESSION OF THE CANCER REGULATOR, MACC1	MELVIN
SKYLAR NICHOLLS	CYTOSINE METHYLATION OF CHERRY CREEK FRESHWATER ALGA	HAEFELE
KYLE RALPHS	RECORDING THE REEF ON A BUDGET: UTILIZATION OF UNDERWATER PHOTOGRAMMETRY IN CORAL MONITORING AND CONSERVATION	HANCOCK
DREW STEINHEIMER	OF MOSS AND MEN	BISSELL
NICOLE ROBBINS	POST-EMERGENCE SUGAR DEPRIVATION INCREASES ATTACK AND ENGORGEMENT PERFORMANCE BY MATED AEDES AEGYPTI MOSQUITOS IN THE LABORATORY	HANCOCK

UNDERGRADUATE RESEARCH CONFERENCE
BIOLOGY MAJOR PRESENTATIONS

POSTER PRESENTATIONS - 2PM-3:20PM
JSSB MEZZANINE

NAME	TITLE	MENTOR
BRITTANY BROWN & RIMLEY BAUER	FEEDING INNOVATION IN THE BARE-THROATED TIGER-HERON (TIGRISOMA MEXICANUM)	CARELLO
BROOKE PASLAY & BRIANNA WINKLER	SEQUENCING THE GFP GENE IN ACROPORA MILLEPORA	CATTELL
KYRA ZERUCHA & CLAUDIA VASQUEZ	IMPLEMENTING MUSEUM-INSPIRED STRUCTURE AMONG MSU DENVER'S SCIENTIFIC ENTOMOLOGY COLLECTION: A FOCUS ON SELECTED NATIVE BEE TAXA	HANCOCK
CHARLOTTE CAMPBELL	BIOCHEMICAL CHARACTERIZATION OF ESCHERICHIA COLI BACTERIA FROM CANADA GEESE (BRANTA CANADENSIS)	FERRELL
VICTORIA MITCHELL & DANIELLE SCHUCKER	HUMAN-ELK INTERACTIONS ON AN AGRESSION SCALE	GAGLIARDI-SEELEY
REECE BAILY	FUNGUS SONUS: DEVELOPMENT OF SOUND ABSORBING MYCELIUM-BASED COMPOSITES USING P. OSTREATUS GROWN ON VARIOUS LIGNOCELLULOSIC SUBSTRATES	RAO, LAZORSKI & FILBIN
RAELYN BEGAY & ERIC REEVE	INVESTIGATING THE DEVELOPMENTAL ROLE OF MACC1 IN ZEBRAFISH	MELVIN

UNDERGRADUATE RESEARCH CONFERENCE
BIOLOGY MAJOR PRESENTATIONS

POSTER PRESENTATIONS - 3:30PM-4:45PM
JSSB MEZZANINE

NAME	TITLE	MENTOR
ISOBELLA VEITCH	ASSESSING SEXUAL DIMORPHISM IN AMYGDALA CONNECTIVITY	QUILLINAN & VIGIL
CAROLINE SUEPER	BIO ART AS A CATALYST FOR THE HUMAN-MICROBE CONNECTION	VER EECKE
LILLIE FAITH GEIERSBACH	SYNTHESIS AND CHARACTERIZATION OF NOVEL SARS-COV-2 DERIVED CELL-PENETRATING PEPTIDES FOR ENHANCED DRUG DELIVERY	AMBRE

APPLY NOW!

Patton Scholars Program Scholarship

About the Scholarship

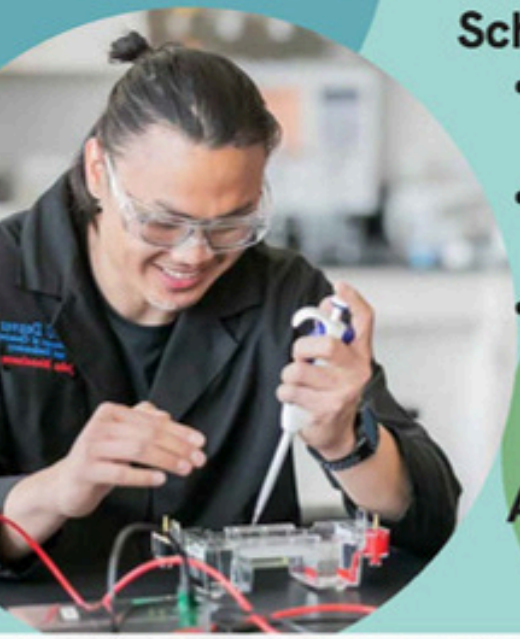
The Patton Scholars program, supported by the James A. Patton ('84) Fund was developed to support students of color in the sciences. Through this program, we provide opportunities to hire students as teaching and/or instructional assistants in the Department of Biology or the Department of Chemistry & Biochemistry

Requirements

- Biology, Chemistry, or Biochemistry Major
- Interest in taking on Leadership/Mentorship Role
- Previous coursework in Biology and/or Chemistry

Scholarship Award Amount

Up to $3000 per semester as TA,
Plus up to $3000 per semester living stipend



Scholarship Commitments

- To serve as a teaching or instructional assistant for assigned course(s)
- To support activities throughout the duration of the program's support
- Voluntary Evaluations (Questions and Interviews)
  - Impact of Program on Personal, Academic, and Professional Development

Application Deadline

Friday, April 26, 2024

Application Link and QR Code for Scholarship

https://tinyurl.com/pattonscholarship

2024

CALLING ALL GRADUATING BIOLOGY SENIORS!

CLAIM YOUR SENIOR SWAG BAG AND GET YOUR SELFIE ON IN OUR PHOTO BOOTH!!

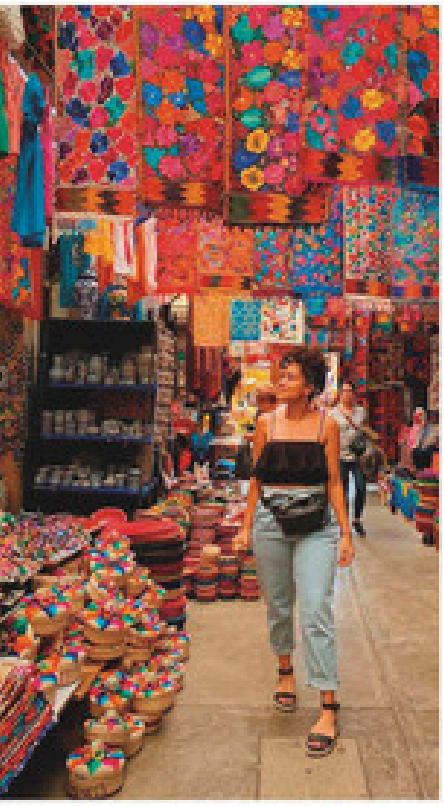
MAY 6TH - 9TH
BIOLOGY CONFERENCE ROOM
SI 2042C

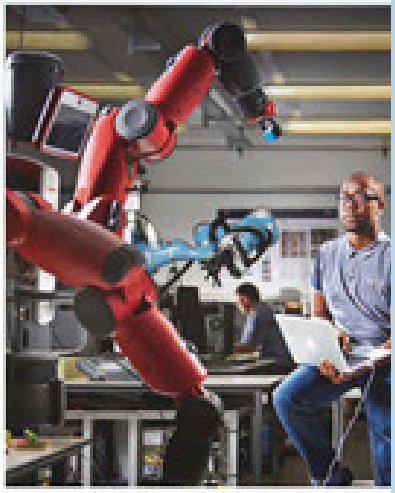
MSU DENVER - CLASS OF 2024

APPLY NOW!

FULBRIGHT
U.S. Student Program

Engaging with the World





Grants for Study, Research, or Teaching Assistantships Abroad

FOR MORE INFORMATION, CONTACT:

Dr. Akbarali Thobhani: thobhana@msudenver.edu
Campus Fulbright Program Adviser

Friday, September 6th at 12:00 p.m. MDT
Campus Deadline Date

Those not enrolled in a college or university may visit our website at us.fulbrightonline.org.

The Fulbright U.S. Student Program offers unparalleled opportunities in all academic disciplines to passionate and accomplished graduating college seniors, graduate students, and young professionals from all backgrounds. Through the Fulbright U.S. Student Program, U.S. citizens can enrich their educations, advance their careers—and make meaningful contributions abroad and at home.

us.fulbrightonline.org

Coming Summer 2024!

WOULD YOU LIKE TO FROLIC IN THE FOOTHILLS THIS SUMMER?

(WHO DOESN'T?)

DO YOU DIG PLANTS?

(I'M CRAZY FOR PLANTS!)

DO YOU WANT TO SPEND TIME OUTDOORS AND LEARN ABOUT PLANT SAMPLING AT THE SAME TIME?!

(DUH!)

COMING SUMMER 2024!

BIO 4560: FIELD METHODS IN PLANT ECOLOGY

VISIT GRASSLAND, RIPARIAN, AND FOOTHILL LOCATIONS IN THE DENVER METRO REGION TO LEARN FIELD SAMPLING TECHNIQUES, DATA ANALYSIS, AND PROJECT PRESENTATION SKILLS

FOR MORE INFO CONTACT:

DR. ERIN BISSELL
EBISSELL@MSUDENVER.EDU

DR. CHRISTOPHER MELOCHE
CMELOCHE@MSUDENVER.EDU

3 CREDITS

SUMMER SESSION DATES & TIMES

JUNE 3-7 - M/W/F - ON CAMPUS LECTURE - SI 3008 -9AM-1PM

JUNE 10-28 - M/W/F - MEET AT FIELD SITES - 7AM-1PM

JULY 1-8 - M/W/M - ON CAMPUS LECTURE - SI 3008 -9AM-1PM

(NO CLASS ON JULY 5)

FOR A BOTANICAL GOOD TIME, REGISTER NOW!

COMING FALL 2024!

BIO 4271
PARASITOLOGY

NEW & IMPROVED!

Now a SENIOR EXPERIENCE course!

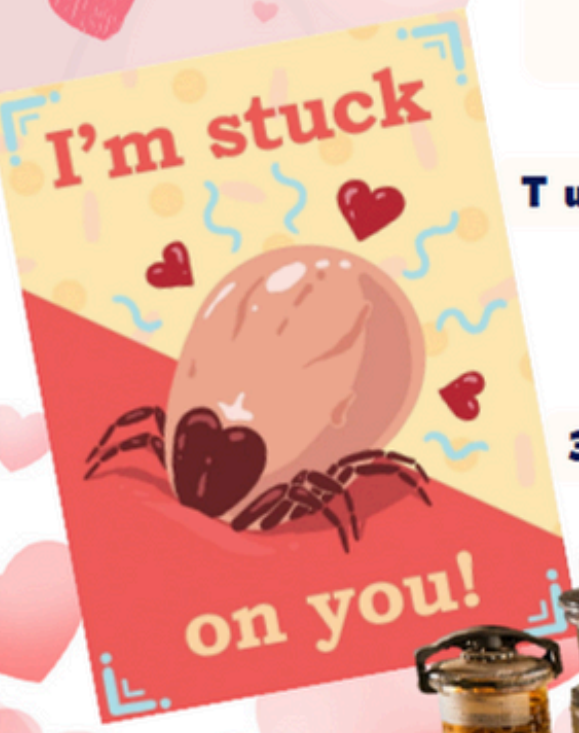
Let's be friends!

Can we hang at your place?

FALL 2024

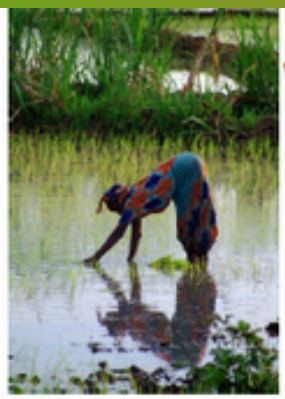
Lecture
Tuesday/Thursday
2pm-3:15pm

Lab
Tuesday
3:30pm-5:20pm



FOR MORE INFORMATION CONTACT
DR. CINDY CHURCH
CHURCHY@MSUDENVER.EDU

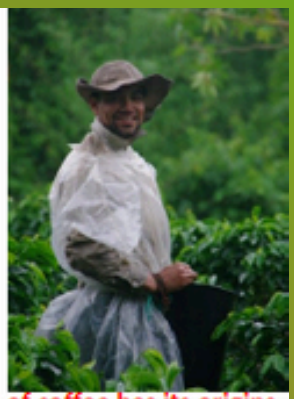
COMING FALL 2024!



Rice was domesticated on three different continents!

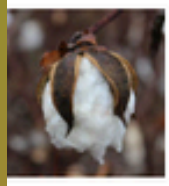
Economic Botany
BIO 3120

4 Upper Div. credits Fall 2024



Every cup of coffee has its origins in Ethiopia and Kenya

Do you have a favorite flower or a favorite fruit? Do you know where the plant that bears it came from or how people learned to use it?



This course investigates the origins of plant we use for food, fiber, chemicals, and medicines. We'll look at why plants are so important to our lives, what they make and how we process them for use.

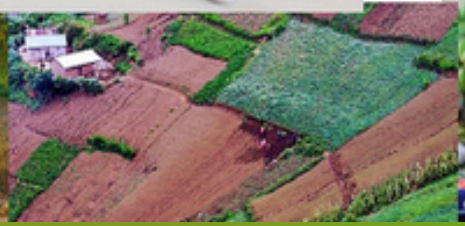
cmeloche@msudenver.edu

Prerequisite: BIO 2100 **or** permission of instructor

This class brings plants and people together. I'm very open to non-biology students in this class and it is a good fit for social science students.

Hot peppers arose in the Caribbean

Many natural fibers have properties that synthetics cannot match



Humans have moved food and