

# The University of Vermont

**WELCOMES  
YOU TO THE  
ANNUAL**

# Student Research Conference 2024

**Event  
Program**

**APRIL 18TH,  
2024**

**9:00-4:30**

**4TH FLOOR**

**DAVIS**

**CENTER**

**Morning Session I**

# Creative Presentations

**THE CREATIVE PRESENTATIONS  
CAN BE FOUND IN THE  
FIREPLACE LOUNGE AND WILL  
REMAIN THERE ALL DAY**

**NATALIE BETT, MEGAN  
BURDICK, ELLETT  
METTIMAN, KAT COYNE, &  
DANI SEWARDS**  
**PURSUING MEANING WITHIN  
CHOREOGRAPHY: DEVELOPING  
AND PRESENTING DANCE  
COMPOSITIONS FROM PERSONAL  
BACKGROUNDS AND MOTIVATIONS**  
Dance, CAS  
Faculty Mentor: Paul Besaw

**YOSHI BIRD**  
**BUILDING THE VERMONT ZONING  
ATLAS**  
Complex Systems & Data Science, CEMS  
Faculty Mentor: Christopher Danforth

**DANTE BLASI**  
**DESIGNING A GOOD WEBSITE**  
Business Administration, GSB  
Faculty Mentor: Erik Monsen

**BEN EGNER & BRADY HILL**  
**A NEW UVM GEOLOGICAL  
COLLECTION INVENTORY**  
Biology, CAS & Biological sciences, CALS  
Faculty Mentor: Sara Cahan

**SAM FERTIK**  
**TRANSLATIONS OF PLANT-  
ENVIRONMENT INTERACTIONS:  
LEARNINGS FROM THE  
COLCHESTER BOG**  
Plant Biology, CAS  
Faculty Mentor: Steve Budington

**WENZDAE WENDLING**  
**The Illustrated Guide to Pre-  
Veterinary Equine Lameness**  
Animal Science, CALS  
Faculty Mentor: Christina Rohan

**ZANE ZUPAN**  
**MAKING LGBTQ+ HISTORY  
ACCESSIBLE TO GEN-Z DURING A  
PERIOD OF TARGETTED LGBTQ+  
ERASURE**  
Political Science, Sociology, and  
Gender, Sexuality, & Women's Studies,  
CAS & PLHC

# Oral Presentations

## Morning Session I

### Chittenden Room

**Jenna Cohen**

Exploratory factor analysis of postural sway measures reveal potential biomarkers of childhood mental health

Faculty Mentor: David Jangraw

**Amanda Fastiggi**

Therapeutic Ketosis Attenuates Asthma Associated Airway Hyperresponsiveness by Targeting Bronchial Smooth Muscle

Faculty Mentor: Matthew Poynter

**Maya Sobel**

Traumatic brain Injury Impact on Spatial and Working Memory in Mice

Faculty Mentor: Kalev Freeman

### Jost Room

**Elias Adler**

Impact of self-reported sleep quality on mood after rigorous exercise in Varsity Athletes

Faculty Mentor: Jeremy Sibold

**Natalie Bett & Megan Burdick**

Connecting Science and Dance: The Introspection and Observation of the Human Experience

Faculty Mentor: Julian Barnett

**Sophie Dehoff**

Paranoid and Reparative Readings of Antigone

Faculty Mentor: Sean Wltters

**Sophie Warth**

First Meals and Last Meals: Vehicles of Food Meaning

Faculty Mentor: Teresa Mares

# Oral Presentations

## Morning Session I

### Williams Room

**Beatrice Nyarko**

Faculty Mentor: David Connor

Hidden Community Capitals in Contributing to a Resilient Food System

**Chris Foley**

Faculty Mentor: Mindy Morales-Williams

Whey Protein Isolate Composites as Potential Scaffolds for Cultivated Meat

**Andrew Gerlcz**

Faculty Mentor: Ernesto Mendez

Principles and practices for the resourcing of agroecology

### Spruce Room

**Maria Alfaro**

Faculty Mentor: Mindy Morales-Williams

Influence of artificial whole-lake aeration in Lake Carmi, VT

**Chanchal Saratkar**

Faculty Mentor: Melissa Pespeni

Seasonal Thermal Plasticity in Lake Champlain Copepods

**Anoob Prakash**

Faculty Mentor: Stephen R Keller

Understanding the role of introgression on local adaptation in red spruce (*Picea rubens* Sarg.)

**Baxter Worthing**

Faculty Mentor: Stephen Keller

Genomic prediction reveals the genetic architecture of spring phenology in poplar trees

# Posters

## Morning Session I

### SOCIAL SCIENCES

LUCIO COSTA PROENCA  
AOI TISCHER  
JOSEPH ALEXANDER  
MARK SIZEN  
STASHA MEDEIROS

### VERMONT

EMMA PARKS	M JIAO
KEELAN	HANNAH
BOISVERT	BLACKWELL
AMRITA SHORE	CALLA
MAYA	BEAUREGARD
THOMSON	

### ENGINEERING, MATHEMATICS, & PHYSICAL SCIENCES

BEN MAYS	OMID MOKHTARI
PETER	ASHLEY FEHR
TSCHAIKOWSKY	PENG SANG
BIKRAM	NICOLE ROODE
PANTHEE	

### LIFE SCIENCES

NATALIE LLOYD	BENNETT
ALISON HALL	GAMBER
ANNIKA	CHRISSY
LATHROP	LALONDE
DENA KATZ	JAY SULLIVAN
ELIZABETH	GRETA
COOK	SAVITSKY
HANNAH	NICOLE HARDY
SHAFER	ILARIA COERO
PIA CARMAN	BORGA
RACHEL WILSON	SOHAM MEHTA
VEGAS	VIRGINIA CLUBB
ROCKAFELLER	REGINA
SAM BJORKLUN	VISCONTI
EKATERINA LOPEZ-BONDARCHUK	

### WILDLIFE PATHOGENS LAB

LAUREN BERKLEY  
AIDY PENNELL  
ERICKA GRIGGS  
ANNA HINKEL