



2024 RESEARCH SHOWCASE SCHEDULE

FRIDAY, APRIL 19

OUTSIDE UU MPR

11 AM-11:30 AM

**CHECK-IN & STUDENT
POSTER SET-UP**

UU MPR

11:30- 11:45 AM

**WELCOME &
ANNOUNCEMENTS**

UU MPR

NOON - 1:00 PM

**POSTERS - BET MCNAIR &
CSR SCHOLARS**

UU MPR

1:20 PM-2:20 PM

**POSTERS - LSAMP, HONORS
& CSR SCHOLARS**

**OLD UU 102 & UU
BAYVIEW 2015**

12:00 PM- 1:55 PM

**STUDENT RESEARCH
COMPETITION PRESENTATIONS**

UU MPR

**CLOSING WORDS & GROUP
PHOTOS**

CELEBRATION

PHOTO

CLOSING REMARKS

STUDENTS PICK UP POSTERS



**CENTER FOR
STUDENT
RESEARCH**
CAL STATE EAST BAY

2024 RESEARCH SHOWCASE PROGRAM

CONFERENCE TIPS

CHECK IN OUTSIDE THE UU MPR:

- **PICK UP YOUR NAME TAG**
- **NOON- 1 PM POSTER PRESENTERS - SET UP YOUR POSTER**

DRESS CODE

- **BUSINESS CASUAL OR REGULAR, COMFORTABLE CLOTHING**
- **WE ENCOURAGE YOU TO WEAR WHATEVER MAKES YOU FEEL COMFORTABLE**
- **NO NEED TO PURCHASE NEW CLOTHES!**

ENJOY THE EXPERIENCE AND MAKE MEANINGFUL CONNECTIONS

- **WE ARE ALL HUMAN.**
- **SUPPORT EACH OTHER.**
- **SHARE YOUR EXCITEMENT FOR YOUR WORK!**
- **BE CURIOUS!**
- **BE KIND AND GENTLE.**

NO PRESSURE TO VIEW EVERY SINGLE POSTER

- **VISIT ONES THAT INTEREST YOU.**

HOW MUCH TIME TO SPEND AT EACH POSTER?

- **NO NEED TO READ EVERY WORD.**
- **IF AVAILABLE, ASK THE PRESENTER TO WALK YOU THROUGH THEIR WORK.**
- **OFFER PRAISE, FEEDBACK, COMMENTS, OR ASK QUESTIONS.**
- **THANK THE PRESENTER AND MOVE TO THE NEXT POSTER!**



SHOWCASE LOGISTICS

FREE LIGHT SNACKS AND REFRESHMENTS AVAILABLE FOR ATTENDEES

POSTER LOCATION: UU MPR

NOON - 1 PM POSTERS

- **#1-13 BET MCNAIR POSTERS**
- **#14-42 CSR SCHOLAR POSTERS**

1:20-2:20 PM POSTERS

- **#1-11 LSAMP POSTERS**
- **# 14-16 HONORS SCHOLARS**
- **#12-13 & 17-54 CSR SCHOLARS**

PRESENTATIONS

- **VERBAL PRESENTATIONS BY STUDENTS SELECTED TO PRESENT AT THE CSU-WIDE STUDENT RESEARCH COMPETITION (SRC)**
- **PRESENTATION FORMAT: 10 MINUTES PRESENTATION & 5 MINUTES FOR Q&A**
- **LOCATIONS: OLD UNION 102 & NEW UU, BAYVIEW**
- **NOON-12:15 PM**
- **12:20-12:40 PM**
- **12:50-1:05 PM**
- **1:15-1:30 PM**
- **1:40-1:55 PM**

POSTER SESSION 1

12:00- 1:00 PM, UU MPR

POSTER NUMBER	LAST NAME	TITLE
1	JONES & MEHRABI	SELF-DETERMINATION AND ADVOCACY PROJECT PROCESS
2	MAHARAJ & FARHAD	MENTAL HEALTH NEEDS OF SOUTH ASIANS IN THE SAN FRANCISCO BAY AREA AND GREATER NEW YORK METROPOLITAN REGION STEMMING FROM SOCIAL ISOLATION DUE TO COVID-19 RESTRICTIONS.
3	CASTANEDA, CHUN, TORRENCE, IGNACIO, RAMIREZ, MAGDALE, LOPEZ VILLEDA	ADVANCING CHEMICAL RISK ASSESSMENT THROUGH PRIORITIZATION & EVIDENCE MAPPING)
4	SINGH	BUILDING A FUNCTIONAL UNDERSTANDING OF LOWER LIMB PROSTHESES
5	SANA	TOWARDS SUSTAINABILITY: UNDERSTANDING CSU EAST BAY'S RESPONSE TO CLIMATE CHALLENGES
6	AVALOS	ACCENT DISCRIMINATION IN THE WORKPLACE
7	BRAVO	ISOLATION OF SINGLE-STRANDED DNA THAT CAN DETECT AND QUANTIFY REDUCED AND OXIDIZED GLUTATHIONE MOLECULES
8	HINTON	THE GLOBAL NETWORK OF OPTICAL MAGNETOMETERS FOR EXOTIC PHYSICS SEARCHES (GNOME)
9	SECKANDARY, BEARCHILD, HABIBZADA, LIN, ROKHLINE, ROZAL, SOMPURA, ALI, URBANO	OVEREXPRESSING PEROXIDASE GENES TO TEST FOR HYDROGEN PEROXIDE PRODUCTION
10	RIAZ	THE IMPORTANCE OF TOSA'S IN SCIENCE EDUCATION
11	PRASAD	SOUTH ASIANS AND THEIR HEALTHCARE DECISION-MAKING FACTORS
12	JAIME	EXCITED DELIRIUM NAVIGATING COMPLEXITIES IN LAW ENFORCEMENT AND CRIMINAL JUSTICE
13	TONG & PRECIADO	DOMINANT VS NON DOMINANT LEG DIFFERENCE IN JUMP LANDING FROM DIFFERENT DIRECTIONS IN FEMALE ATHLETES
14	CHRISTOPHERSEN	SORTING THE LANDSCAPE OF ARTIST & SCIENTIST COLLABORATIONS
15	ROTH	STORY TIME WITH AAC
16	THOMPSON	AAC PRACTICE PROTOCOL IMPROVES WORD PRODUCTION ACCURACY FOR COMMUNICATION PARTNERS
17	ALMARAZ	ADAPTING A VERSION OF THE PROCESS-BASED ASSESSMENT TOOL (PBAT) TO BE APHASIA-FRIENDLY AND TRANSLATING IT INTO SPANISH
18	PADILLA & EVANS	BILINGUAL LANGUAGE PRODUCTION: INVESTIGATING CROSS-LANGUAGE FACILITATION AND INTERFERENCE CONTROL
19	VASQUEZ	CROSS LANGUAGE CONNECTIONS AND COGNITIVE CONTROL
20	LU	NONLINGUISTIC COGNITIVE EFFECTS OF PARTICIPATING IN EXERCISE FOR INDIVIDUALS WITH APHASIA
21	HE	PROMOTING LEADERSHIP VIA AN APHASIA CHOIR ADVISORY BOARD: HOW IT WORKS AND MEMBER EXPERIENCE
22	ESCOBAR	EXPLORING SOCIAL MEDIA ACTIVITIES ON FACEBOOK GROUPS THAT SUPPORT CAREGIVERS OF AAC USERS
23	MILLER & TOLLAST	UNDERSTANDING COGNATE PROCESSING IN SPANISH/ENGLISH BILINGUALS
24	FLEISCHER	A VISUAL ARTS GROUP FOR PEOPLE WITH APHASIA: CLINICAL PROGRAM OVERVIEW
25	SAWANT & ALCARAZ	UPGRADING BY UNGRADING
26	DESAI	PROFESSIONAL EXPERIENCES OF YOGA TEACHERS IN THE USA
27	ARORA	FROM INSIGHT TO IMPACT: BRIDGING GAPS IN CBES CURRICULUM & EDUCATION AT CSUEB
28	DWIVEDI	AERO ASSIST - EMPOWERING MOBILITY AND INDEPENDENCE WITH LIVE DRONE NAVIGATION GUIDE



POSTER SESSION 1 (CONTD.)

12:00- 1:00 PM, UU MPR

POSTER NUMBER	LAST NAME	TITLE
29	YEMPARALA	ENHANCEMENT OF VISION-BASED DATA FOR BRIDGE HEALTH MONITORING
30	GAYAM	ENHANCING PATIENT SAFETY TRAINING THROUGH IMMERSIVE VIRTUAL REALITY SIMULATION
31	CHHUN, IGNACIO, VIVIAN LOPEZ, RAMIREZ, LAM	VOICE FOR CHANGE: LOBBYING FOR ENVIRONMENTAL HEALTH POLICY REFORM
32	BALOGH, KOYABU, TSE	AN EDUCATOR SURVEY: SUPPORTING ASIAN AMERICAN, MUSLIM, AND SIKH STUDENTS
33	SOTO	EXAMINING KNOWLEDGE AND BELIEFS TO IMPROVE MTSS PROFESSIONAL DEVELOPMENT
34	MAMA CLAY	A STORY OF RESILIENCE: BIRTH WORKERS SUPPORTING FAMILIES AFTER THE LāHAINā FIRE
35	KETEMA	HIGHLIGHTING THE STRUGGLES AND STRENGTHS OF BLACK BIRTH WORKERS IN NORTHERN CALIFORNIA
36	TRAN	PRESERVICE TEACHERS' UNDERSTANDING OF INSTRUCTIONAL PRACTICE RELATED TO THE NGSS SCIENCE AND ENGINEERING PRACTICES: IMPACT OF THE A-STEP TOOLKIT
37	MARQUEZ	SHARED LIVED EXPERIENCE BEYOND MENTAL HEALTH: RACIAL/ ETHNIC CONCORDANCE IN PEER SUPPORT WORK
38	DAVIS	COMMUNIST NEVERLAND - EXPLORING RESEARCH AND EDUCATION
39	PERILLO	HELPING OLDER ADULTS ALLEVIATE FROM BOREDOM: DEVELOPMENT OF LEISURE EDUCATION INTERVENTION PROGRAM
40	DRESCHER	OLDER FEMALE TRAVELERS' EUSTRESS AND DISTRESS DURING LEISURE TRAVEL
41	GARROTE	EXAMINING THE OVERALL EFFECTIVENESS OF INTERNSHIP EXPERIENCE
42	GAMEZ JR.	PARTITIONING WATER FLUXES IN TIDAL WETLANDS: IMPROVING UNDERSTANDING OF EVAPORATION AND TRANSPIRATION

POSTER SESSION 2

1:20-2:20 PM UU MPR

POSTER NUMBER	LAST NAME	TITLE
1	HADDAD	LINGUISTIC ANALYSIS OF GENDER THEMES IN SOCIAL ANXIETY - RELATED NEGATIVE THOUGHTS
2	HERMANSON	THE SEARCH FOR NON-INTERACTING PARTICLES HUNT (SNIPE HUNT)
3	ZARAGOZA-CALDERON	THE GLOBAL OF OPTICAL MAGNETOMETER FOR EXOTIC PHYSICS SEARCHES (GNOME)
4	GELAYA, HINTON, WATSON, VALERIO-LAMBERT, MIRANDA	GENERIC IN CONTEXT: HOW CHILDREN AND ADULTS USE GENERIC LANGUAGE
5	MARTINEZ	RESPONSE TIMING IN AN ITERATED MONTY HALL PROBLEM
6	HALBROOK-GILBERT	GROWTH RATE DIFFERS IN STRAINS OF AMPHIBIAN-KILLING FUNGUS
7	REASON & RATINHO	EFFECTS OF READING NARRATIVES ABOUT CONFRONTING RACISM
8	FALODUN	URANIUM (UO ₂) ELEMENT WITH THE ORCA COMPUTER SOFTWARE AND AVOGADRO MOLECULAR EDITOR
9	VALENCIA	ANALYZING THE INFLUENCE OF FIRE ON OAK ACORN FOOD RESOURCES: EFFECTS ON FILBERT WEEVIL (CURCULIO OCCIDENTIS) AND FILBERT MOTH (CYDIA LATIFERREANA) INFESTATIONS
10	REYNOSO MOSQUEDA	UNVEILING MOTIVATIONS IN VOLITIONAL PERSONALITY CHANGE ACROSS DEMOGRAPHIC VARIABLES
11	MUCK	ANALYZING SEMICONDUCTORS USING THZ-TDS
12	LOPEZ & QUINERI	LLAMA: INNOVATING REHABILITATION IN POST-STROKE CARE
13	FEALY	INDIVIDUAL DIFFERENCES IN ADULTHOOD OUTCOMES OF ADVERSE CHILDHOOD EXPERIENCES
14	HENDRIX	EXPLORING MENTAL HEALTH ACCESSIBILITY THROUGH WEBSITE DESIGN TO STUDENTS AT CAL STATE EAST BAY
15	FISCHEL	A COMMUNICATION GAME TO EASE DIFFICULT CONVERSATIONS IN END OF LIFE PLANNING
16	MCCALIB	REDEFINING SOLUTIONS: CONSTRUCTING RIEMANN SURFACES TO SIMPLIFY COMPLEX FUNCTIONS
17	ROSA	BETTING SYSTEMS
18	THOMPSON	CALCULATING DISTANCE MATRICES FOR THE SIERPINSKI GASKET
19	LEONG & MINGOIA	DIMENSIONALITY REDUCTION ON FRACTALS
20	CONN	HOW TO APPROACH MATHEMATICAL MODELING: A BONE CASE STUDY
21	MATHEW	MODELING EFFICACY OF OVERDOSE PREVENTION CENTERS
22	TRIPATHI	MULTI-COLOR FORCING ON GRAPHS
23	BATINO	MULTISCALE MODELING OF BONE TISSUE
24	SHAH	THE ZERO FORCING NUMBER OF HOPI RECTANGLE GRAPHS
25	LOVE	WAVE EQUATIONS IN RND S AND FLRW
26	SANTOS	CRYOGENIC DARK MATTER DETECTORS: AMPLIFIER COMPONENT TESTING
27	MATTHEIS	BIOMECHANICAL AND ENERGETIC TRENDS IN RESPONSE TO 8 WEEKS OF TRAINING IN ADVANCED FOOTWEAR TECHNOLOGY
28	TONG & PRECIADO	DOMINANT VS NON DOMINANT LEG DIFFERENCES IN JUMP LANDING FROM DIFFERENT DIRECTIONS IN ATHLETIC FEMALES
29	ESQUEDA	COUPLED HIGH-FREQUENCY SENSOR NETWORK DEPLOYED IN SF ESTUARY TO QUANTIFY NUTRIENT TRANSPORT IN SUB-SURFACE HYDROLOGIC INTERACTIONS BETWEEN COASTAL TIDES AND WATERSHEDS
30	DO & DE LUNA SUMAJIT	USING POREWATER AND EDDY COVARIANCE TO CONSTRAIN CO ₂ AND CH ₄ FLUXES IN VARYING TIDAL WETLANDS

POSTER SESSION 2 (CONTD.)

1:20-2:20 PM UU MPR

POSTER NUMBER	LAST NAME	TITLE
31	PATEL	FIBER IDENTIFICATION AND DYE EXTRACTION
32	BUKOVEC	INVESTIGATION OF ZINC SOAP FORMATION AND DAMAGE MECHANISMS IN OIL PAINTINGS USING FTIR SPECTROSCOPY
33	CASSARO	MULTI-INSTRUMENTAL ANALYSIS OF FIBERS AND DYES
34	RATTANPAL	TEMPERATURE EFFECTS ON URANIUM ADSORPTION TO MONTMORILLONITE
35	GARCIA	THE EFFECTS OF CLINICALLY RELEVANT MUTATIONS ON THE EXCHANGE OF APOLIPOPROTEIN A-I ON HDL
36	KING	ANXIETY AND ATTENTION SCOPE ON A MODIFIED ATTENTIONAL BLINK TASK
37	CHARITRA	CHALLENGES FACING PARTNERS IN INTERFAITH RELATIONSHIPS
38	AGUILAR	CONTINGENCY-SHAPED COOPERATION IN AN ITERATED PRISONER'S DILEMMA
39	CARR & GUNARI	DEVELOPING AN ANIMAL MODEL OF MIGRAINE-RELATED PAIN TO STUDY THE CONTRIBUTION OF TRIGEMINAL SYSTEMS
40	CHACON & KHOJA HERAWI	EFFECTS OF SIMULTANEOUS INHIBITION OF FATTY ACID AMIDE HYDROLASE AND SOLUBLE EPOXIDE HYDROLASE ON TRIGEMINAL PAIN IN FEMALE SPRAGUE-DAWLEY RATS
41	MERCADO	SIMULTANEOUS INHIBITION OF SOLUBLE EPOXIDE HYDROLASE AND FATTY ACID AMIDE HYDROLASE ALLEVIATES INFLAMMATORY PAIN IN MALE AND FEMALE RATS
42	CABIGTANG, RIJAL, CAZARES. FARINAS	CHARACTERIZATION OF PHENOLICS AND ANTIOXIDANTS IN PISTACIA VERA LEAF TISSUES UNDER SALINITY STRESS
43	CATBAGAN	PURIFICATION OF THE ENZYME ACETYLCHOLINESTERASE FROM THE MARINE GASTROPOD TRITONIA DIOMEDEA
44	BARRAGAN- PLANCARTE	INVESTIGATION OF THE EFFECT OF AGGREGATING IONS ON SURFACE-ENHANCED RAMAN SPECTRA OF ANTHRAQUINONE DYES
45	ALIMI	CHARACTERIZING SAX 2 ISOFORM-MEDIATED DENDRITIC PRUNING IN C. ELEGANS
46	WILLIAMSON	HYBRID GENOMES OF AMPHIBIAN CHYTRID DISEASE
47	SANDERSON	HOW THE DIET OF ANNA'S HUMMINGBIRDS (CALYPTE ANNA) VARY IN URBAN AND RURAL HABITATS
48	WIMMER	INVASIVE SPECIES AND CHYRID PREVALENCE IN WESTERN WASHINGTON
49	NGO	INVESTIGATING THE ROLE OF VAMP'S & UNC-11 IN REGULATING PLM DENDRITE TERMINATION IN C. ELEGANS
50	NGO & VILLARUEL	HAVING NOTES ON A TEST ELIMINATES THE BENEFIT OF INTERLEAVING OVER BLOCKING
51	AGUAYO	IDENTIFYING THE ROLE OF ATYPICAL MBONS IN SLEEP REGULATION IN DROSOPHILA MELANOGASTER
52	DHUNGANA	THIS OR THAT? THE COMPLEX LIFE OF THE FEMALE FLY AND SENSES THAT GOVERN IT
53	SANDS	PAUSES, TANDEM ANCHORS, AND THEIR IMPACT ON NEGOTIATIONS
54	NORIEGA	SOCIAL JUSTICE IN ACTION: PERCEPTIONS AND PRACTICE IN PROGRAM TRAINING AND SCHOOLS
55	VEGA MORALES	FAMILISMO AND SIMPATÍA - DO LATINO CULTURAL BELIEFS RELATE TO EMPATHETIC CHOICE?



STUDENT RESEARCH COMPETITION

PRESENTATIONS

OLD UNION 102

PRESENTATION TIME	STUDENT PRESENTER	TITLE
NOON - 12:15 PM	MARYAM ALAEIFARD AND JONATHAN CRESCENZO	THE SALLY PROJECT
12:25 - 12:40 PM	TRINITY GISTAND	A MIXED METHODS STUDY OF BARRIERS AND FACILITATORS TO MINDFULNESS-BASED WEIGHT LOSS AMONG LATINA WOMEN
12:50 - 1:05 PM	KATIE HERMANSON	THE SEARCH FOR NON-INTERACTING PARTICLES EXPERIMENTAL HUNT (SNIPE HUNT)
1:15 - 1:30 PM	YI SHEN LEE	MOMMY KNOWS BEST: GENETIC AND CIRCUIT BASIS OF FEMALE DROSOPHILA DECISION MAKING
1:40- 1:55 PM	LU PAVANA	SIMULTANEOUS INHIBITION OF SOLUBLE EPOXIDE HYDROLASE AND FATTY ACID AMIDE HYDROLASE ALLEVIATES INFLAMMATORY PAIN IN MALE AND FEMALE RATS

NEW UU, BAYVIEW

PRESENTATION TIME	STUDENT PRESENTER	TITLE
NOON - 12:15 PM	TIMOTHY CATBAGAN	CHARACTERIZATION OF THE ENZYME ACETYLCHOLINESTERASE FROM THE MARINE GASTROPOD TRITONIA DIOMEDEA
12:25 - 12:40 PM	JOSEPHINE FEALY	ACES IN ADULTHOOD – LOOKING BEYOND NEGATIVE OUTCOMES
12:50 - 1:05 PM	PREETI SUNDARAMURTHI	DECODING THE MYSTERY OF THE SLEEPY FLY: ONE SYNAPSE AT A TIME
1:15 - 1:30 PM	JUSTIN MATTIES	BIOMECHANICAL AND ENERGETIC TRENDS IN RESPONSE TO 8 WEEKS OF TRAINING IN ADVANCED FOOTWEAR TECHNOLOGY
1:40- 1:55 PM	VINMATHI IYAPPAN	UTILITY-DRIVEN CLUSTERING ALGORITHM FOR IDENTIFYING HIGH DRUG EXPENDITURE PATTERNS