

24th Annual Celebration of Student Research and Creative Endeavors

Session Schedule April 15, 2021



Oral Presentations - Morning Session 8:30-11:00am

Taylor Berry, Psychology, Undergraduate Student

Faculty Mentor: Christopher Seitz, Health and Exercise Science

Co-Author(s): Zach Dumaine, Cody Shina, Katie Bigelow, Grace Ruffin

Title: AN INCREASE IN ANXIETY AMONG COLLEGE STUDENTS OVER THE PAST TEN YEARS: A

SECONDARY ANALYSIS

Mckayla Blackwelder, Public Health, Undergraduate Student Faculty Mentor: Christopher Seitz, Health and Exercise Science

Co-Author(s): N/A

Title: ONLINE SUICIDE PREVENTION INFORMATION: A SMOG READABILITY ANALYSIS

Annie Bresko, Communication Sciences and Disorders, Undergraduate Student Faculty Mentor: Jordan Hazelwood, Communication Sciences and Disorders

Co-Author(s): N/A

Title: SLPS' PERSPECTIVES ON TRAINING IN A STANDARDIZED APPROACH TO MODIFIED BARIUM

SWALLOW STUDY (MBSS): A QUALITATIVE STUDY

Henry Bunn, Technology, Graduate Student

Faculty Mentor: Chris Tolbert, Sustainable Technology and the Built Environment

Co-Author(s): N/A

Title: THE EFFECT OF HIGHLY VARIABLE IRRADIANCE PATTERNS ON PHOTOVOLTAIC CELL

PERFORMANCE FOR THE APPLICATION OF SOLAR VEHICLES

Katie Childers, Public Health, Undergraduate Student

Faculty Mentor: Adam Hege, Health and Exercise Science

Co-Author(s): N/A

Title: ENVIRONMENTAL CONSERVATION AND ITS RELATION TO PUBLIC HEALTH POLICY

Stacey Deng, Nutrition, Graduate Student

Faculty Mentor: Laura McArthur, Nutrition and Health Care Management

Co-Author(s): Melissa Gutschall, PhD, RD, LDN, Alisha Farris, PhD, RDN, Dr. Kimberly Fasczewski, PhD Title: DESIGN AND EVALUATION OF A SKILL-BUILDING FOOD SECURITY COURSE FOR COLLEGE

STUDENTS: A PILOT STUDY

Lauren Elliott, Public Health, Undergraduate Student

Faculty Mentor: Christopher Seitz, Health and Exercise Science

Co-Author(s): Julianna Rodriguez-Cruz, Margaret Lloyd, Cody Shina, Grace Ruffin

Title: A DESCRIPTIVE ANALYSIS OF COMPLAINTS ON YELP.COM ABOUT RESTAURANT STAFF NOT

WEARING FACE MASKS DURING COVID-19

Kara Haselton, Interdisciplinary Studies, Undergraduate Student Faculty Mentor: Ann Pegelow Kaplan, Interdisciplinary Studies

Co-Author(s): N/A

Title: WHERE I'M FROM, A PHOTOGRAPHIC ESSAY ON IMMIGRATION

Sara Idris, Engineering Physics, Graduate Student Faculty Mentor: François Amet, Physics and Astronomy

Co-Author(s): Aeron McConnell, Brian Opatosky

Title: THE JOSEPHSON JUNCTION CIRCUIT: PART II

Alyssa Lefler, Exercise Science, Undergraduate Student

Faculty Mentor: Christopher Seitz, Health and Exercise Science

Co-Author(s): Aidan Estes, Nick Little, Gracyn Travitz

Title: COVID-19 SAFETY VIOLATIONS AMONG GREEK ORGANIZATIONS AND UNIVERSITY RESPONSE:

AN ANALYSIS OF NEWS REPORTS

Haley Love, Nursing, Graduate Student Faculty Mentor: Becki Turpin, Nursing

Co-Author(s): N/A

Title: INCREASING TRIAGE NURSE CONFIDENCE DURING VETERAN SUICIDE CALLS: EVALUATION OF

AN EDUCATIONAL INTERVENTION

Molly Fox, Public Health, Undergraduate Student

Faculty Mentor: Jennifer Tyson, Health and Exercise Science

Co-Author(s): Emily Benson, Laura Brady

Title: PUBLIC HEALTH PREPAREDNESS: SUPPORTING THE GLOBAL PANDEMIC THROUGH A

TRAINEESHIP

Noah Murr, Biology, Graduate Student Faculty Mentor: Michael Opata, Biology Co-Author(s): Tyler Olender, Amari Smith

Title: MODERATE MALNUTRITION EXACERBATES PLASMODIUM CHABAUDI INDUCED GUT

DEFORMITIES AND ALTERATIONS IN MUCOSAL INNATE IMMUNITY

Leanna Pollack, Speech-Language Pathology, Graduate Student

Faculty Mentor: Jordan Hazelwood, Communication Sciences and Disorders

Co-Author(s): N/A

Title: ONLINE RESOURCES FREQUENTLY UTILIZED BY SPEECH-LANGUAGE PATHOLOGISTS FOR

DYSPHAGIA MANAGEMENT

Grace Ruffin, Public Health, Undergraduate Student

Faculty Mentor: Christopher Seitz, Health and Exercise Science

Co-Author(s): Bryce Clark, Kate Mulligan, Ann Mosely Whitsett, Meg Hanff

Title: A READABILITY ANALYSIS OF THE CDC'S WEBPAGES THAT PROMOTE EARLY CHILDHOOD

VACCINATIONS

Isabel Smith, Global Studies, Undergraduate Student

Faculty Mentor: Joseph Gonzalez, Interdisciplinary Studies

Co-Author(s): N/A

Title: UNDERSTANDING TRENDS IN AUSTRALIAN ASYLUM SEEKER POLICY: AN ANALYSIS ON THE

CONTINUATION OF DETERRENCE THROUGH COVID-19

Brooke Stevens, Biology, Undergraduate Student

Faculty Mentor: Khadija Fouad, Biology

Co-Author(s): Rafat Shahbain

Title: COMPARATIVE ANALYSIS BETWEEN CULTURAL BACKGROUNDS AND EVOLUTIONARY BELIEFS

Rachel Szeghy, Exercise Science, Undergraduate Student

Faculty Mentor: Stephen Ratchford, Health and Exercise Science

Co-Author(s): Valesha M. Province, Laurel K. Koontz, Nina L. Stute, Marc A. Augenreich, Abigail S. Stickford,

Jonathon L. Stickford

Title: LONGITUDINAL TRACKING OF ARTERIAL STIFFNESS AMONG YOUNG ADULTS WITH

SARS-COV-2

Kimberly Todd, Biology, Graduate Student

Faculty Mentor: Zachary Farris, Health and Exercise Science

Co-Author(s): N/A

Title: PATTERNS OF SPATIAL CO-OCCURRENCE AMONG NATIVE AND EXOTIC CARNIVORES IN

NORTHEASTERN MADAGASCAR

Katherine Uva, Business Administration, Graduate Student

Faculty Mentor: Jill Juris Naar, Recreation Management and Physical Education

Co-Author(s): Cardwell, Chris (B.S.) and Shanely, Shannon (Ph.D.)

Title: EQUIPPING STUDENTS TO MEET THE CHANGING VIRTUAL RECREATION NEEDS OF OLDER

ADULTS

Poster Presentations - Morning Session - 8:30-11:00am

Emma Albertino, Psychology, Undergraduate Student

Faculty Mentor: Denise Martz, Psychology

Co-Author(s): Twila Wingrove, Ph.D.

Title: MENTAL HEALTH OF WOMEN IN EMERGING ADULTHOOD: AN ASSESSMENT OF IN PERSON AND

TECHNOLOGICAL SEXUAL ASSAULT

Marc Augenreich, Exercise Science, Graduate Student

Faculty Mentor: Jonathon Stickford, Health and Exercise Science

Co-Author(s): Province V.M., Stute N.L., Stickford A.S.L., Ratchford S.M.

Title: LONGITUDINAL OBSERVATIONS OF METABOLIC AND VENTILATORY RESPONSES DURING

INCREMENTAL EXERCISE IN YOUNG ADULTS FOLLOWING SARS-COV-2 INFECTION

Emily Benson, Public Health, Undergraduate Student

Faculty Mentor: Adam Hege, Health and Exercise Science

Co-Author(s): Aaron Carpenter, Rebecca Hagedorn, Lanae Hood, Julia Waity, Jessica Soldavini, Amelia

Huelskamp, Elizabeth Wall-Bassett, Lillian MacNell, Maureen Berner

Title: HOW DOES FOOD AND HOUSING INSECURITY INFLUENCE THE ACADEMIC PERFORMANCE OF UNIVERSITY AND COLLEGE STUDENTS? EVIDENCE FROM A SAMPLE OF EIGHT NC UNIVERSITIES

AND COLLEGES

Abbey Bush, Exercise Science, Undergraduate Student

Faculty Mentor: Kimberly Fasczewski, Health and Exercise Science

Co-Author(s): LaVerene Garner, Sara Powell

Title: EXPLORING VIRTUAL PHYSICAL THERAPY-BASED PHYSICAL ACTIVITY PROGRAMMING FOR

INDIVIDUALS LIVING WITH MULTIPLE SCLEROSIS: A NEEDS ASSESSMENT

Matthew Canjar, Exercise Science, Undergraduate Student

Faculty Mentor: Rebecca Kappus, Health and Exercise Science

Co-Author(s): Dylan Richard

Title: THE EFFECTS OF COVID-19 ON YOUNG VETERANS' CARDIOVASCULAR HEALTH

Alex Christofalos, Sustainable Technology, Graduate Student

Faculty Mentor: Jeremy Ferrell, Sustainable Technology and the Built Environment

Co-Author(s): N/A

Title: COMPARATIVE ANALYSIS OF AFRICAN BLUE BASIL UNDER THREE SUPPLEMENTAL LIGHTING

SYSTEMS IN A CONTROLLED ENVIRONMENT

Sydney Clark, Environmental Science, Undergraduate Student Faculty Mentor: Christopher Thaxton, Physics and Astronomy

Co-Author(s): Matthew Phillips

Title: OPTIMIZATION OF MERRA-2 MODEL REGION SIZES FOR ANALYSIS OF

AEROSOL-METEOROLOGY INTERACTIONS

Alison Collins, Nutrition, Graduate Student

Faculty Mentor: Melissa Gutschall, Nutrition and Health Care Management

Co-Author(s): Dr. Alisha Farris, Dr. Adam Hege

Title: PERCEPTIONS OF FOOD ACCESS AND NUTRITION EDUCATION NEEDS AMONG FOOD PANTRY

CLIENTS IN WATAUGA COUNTY, NORTH CAROLINA

Hannah Coyner, Nutrition, Graduate Student

Faculty Mentor: Paul Moore, Nutrition and Health Care Management

Co-Author(s): Marie Mahon Carpenter, RD, LD; Kyle Thompson DCN, RDN, LDN, CNSC; M. Margaret Barth,

PhD, MPH

Title: ANALYSIS OF GOAL ATTAINMENT FOR ACUTE CARE HOSPITAL PATIENTS BY A CLINICAL

NUTRITION TEAM IN A REGIONAL MEDICAL CENTER

Joel Crothers, Art and Visual Culture, Undergraduate Student

Faculty Mentor: Andrew Heckert, Geological and Environmental Sciences

Co-Author(s): Zackary Ore

Title: IDENTIFYING UNPUBLISHED PALEOPATHOLOGIES IN TYRANNOSAURID (DINOSAURIA:

THEROPODA) SPECIMENS ON PUBLIC EXHIBIT

Wheeler Davis, Biology, Undergraduate Student

Faculty Mentor: Andrew Bellemer, Biology

Co-Author(s): Amber Dyson

Title: INVESTIGATION OF THE ROLE OF EIF2ALPHA IN NOCICEPTION IN DROSOPHILA

MELANOGASTER

Sonoma Dixon, Supply Chain Management, Undergraduate Student

Faculty Mentor: Steven Leon, Marketing and Supply Chain Management

Co-Author(s): Hoon Choi

Title: PERSONALITY AND ITS AFFECT ON CONSUMER SATISFACTION AND LOYALTY IN THE UNITED

STATES AIRLINE INDUSTRY

Patricia Ferreira, Psychology, Graduate Student

Faculty Mentor: Twila Wingrove, Psychology

Co-Author(s): N/A

Title: THE IMPACT OF SEXUAL ASSAULT NURSE EXAMINER TRAINING AND EXPERIENCE ON MOCK

JURORS' PERCEPTIONS IN A CHILD SEXUAL ABUSE TRIAL

Rachel Gallardo, Nutrition, Graduate Student

Faculty Mentor: Laurel Wentz, Nutrition and Health Care Management

Co-Author(s): N/A

Title: NUTRITION ASSESSMENT AND BODY COMPOSITION CHANGES ACROSS A COMPETITIVE

SEASON IN COLLEGIATE WRESTLERS

Grace Galphin, Public Health, Undergraduate Student

Faculty Mentor: Adam Hege, Health and Exercise Science

Co-Author(s): Grace Ruffin (Non-ASU Researchers - Rebecca Hagedorn, Lanae Hood, Julia Waity, Jessica

Soldavini, Amelia Huelskamp, Elizabeth Wall-Bassett, Lillian MacNell, Maureen Berner)

Title: FOOD INSECURITY AND THE IMPACTS ON MENTAL AND PHYSICAL HEALTH OUTCOMES AND PERCEIVED HEALTH STATUS AMONG A SAMPLE OF STUDENTS AT EIGHT NC UNIVERSITIES AND

COLLEGES

Sarah Helmick, Nutrition, Graduate Student

Faculty Mentor: Martin Root, Nutrition and Health Care Management

Co-Author(s): Kyle Thompson, Alisha Farris

Title: THE ASSOCIATION OF DIETARY FIBER INTAKE WITH METABOLIC SYNDROME

Laurel Koontz, Exercise Science, Graduate Student

Faculty Mentor: Stephen Ratchford, Health and Exercise Science

Co-Author(s): Valesha M Province, Nina L Stute, Marc A Augenreich, Jonathon L Stickford,

Abigail S Stickford, Stephen M Ratchford

Title: LONGITUDINAL TRACKING OF VASCULAR FUNCTION AMONG YOUNG ADULTS WITH

SARS-COV-2

Katie Krogmeier, Biology, Graduate Student Faculty Mentor: Howard Neufeld, Biology

Co-Author(s): Erica Pauer

Title: IMPACTS OF POLYPLOIDY ON THE ECOPHYSIOLOGY OF SOLIDAGO ALTISSIMA

Dakota Lewis, Biology, Graduate Student Faculty Mentor: Andrew Bellemer, Biology

Co-Author(s): N/A

Title: THE ROLE OF RNA-BINDING PROTEINS IN THE NOCICEPTIVE PROCESS

Connor Lubsen, Economics, Undergraduate Student

Faculty Mentor: Brock Stoddard, Economics

Co-Author(s): N/A

Title: INDIVIDUALISTIC AND COLLECTIVISTIC MINDSETS IMPACT ON COOPERATIVE BEHAVIOR IN

SOCIETY

Shallelica Mean, Nutrition, Graduate Student

Faculty Mentor: Melissa Gutschall, Nutrition and Health Care Management Co-Author(s): Karalee Cole MA CCC-SLP and Alisha R Farris PhD RDN

Title: INCORPORATING NUTRITION EDUCATION INTO A SUMMER LITERACY PROGRAM: AN

INTERPROFESSIONAL PILOT PROGRAM

Ali Montazeri, Environmental Science, Undergraduate Student

Faculty Mentor: Jon Davenport, Biology

Co-Author(s): Logan Suchniak, Robert P. Creed

Title: THE EFFECTS OF DETRITIVORES ON LEAF LITTER BREAKDOWN IN EXPERIMENTAL PONDS

Caroline Moore, Environmental Science, Undergraduate Student

Faculty Mentor: Sarah Evans, Geological and Environmental Sciences

Co-Author(s): N/A

Title: HYDROLOGIC BUFFERS ON SOIL TEMPERATURE HETEROGENEITY IN A MOUNTAIN FEN

Samuel Moore, Physics, Undergraduate Student

Faculty Mentor: Tonya Coffey, Physics and Astronomy

Co-Author(s): Colin Tyznik, Dr. Oana Jurchescu

Title: CHARACTERIZATION OF LASER PRINTED PEROVSKITE FILMS VIA ADVANCED MICROSCOPIES

Lauren Morris, Psychology, Undergraduate Student

Faculty Mentor: Doris Bazzini, Psychology

Co-Author(s): N/A

Title: THE INFLUENCE OF FACE MASKS ON PERCEPTIONS OF BLACK AND WHITE MEN

Austin Murphy, Physics, Undergraduate Student

Faculty Mentor: Brooke Hester, Physics and Astronomy

Co-Author(s): N/A

Title: CELL CULTURE METHODOLOGY FOR PHYSICAL PROPERTY INVESTIGATION USING

AUTOMATED OPTICAL TWEEZER APPARATUS

Lucy Newsom, Psychology, Undergraduate Student

Faculty Mentor: Yalcin Achigoz, Psychology

Co-Author(s): Isabella Lopez, Riggs Matthews, Shawn Bergman, Timothy Ludwig

Title: GENERATING A PREDICTIVE MODEL FOR INJURY RATES FOR A CHEMICAL MANUFACTURING

COMPANY

Will O'Malley, Marketing, Undergraduate Student

Faculty Mentor: Jason Xiong, Computer Information Systems

Co-Author(s): Caleb Wright, Manas Desai

Title: CRYPTOCURRENCY AND CORONAVIRUS: HOW A GLOBAL PANDEMIC AFFECTS

DECENTRALIZED CURRENCY

Valesha Province, Exercise Science, Graduate Student

Faculty Mentor: Jonathon Stickford, Health and Exercise Science

Co-Author(s): Marc Augenreich, Nina Stute, Dr. Abigail Stickford, Dr. Stephen Ratchford, Dr. Jonathon

Stickford

Title: EVALUATION OF EXERTIONAL DYSPNEA DURING RECOVERY FROM SARS-COV-2 INFECTION IN

YOUNG ADULTS

Erik Rangel Silva, Biology, Graduate Student Faculty Mentor: Andrew Bellemer, Biology

Co-Author(s): N/A

Title: CRISPR/CAS9 GENE EDITING AS A NOVEL METHOD FOR NOCICEPTION-RELATED GENE

MANIPULATION IN DROSOPHILA MELANOGASTER

Brianna Richardson, Public Health, Undergraduate Student Faculty Mentor: Erin Bouldin, Health and Exercise Science

Co-Author(s): Bryan Belcher, Amber Chapman, Kimberly McCullough, Gary McCullough Title: EVALUATION OF A CAREGIVER EDUCATION PROGRAM IN APPALACHIA

Tyler Roof, Nutrition, Graduate Student

Faculty Mentor: Laurel Wentz, Nutrition and Health Care Management

Co-Author(s): Danielle Nunnery, Marco Meucci

Title: EFFECT OF NUTRITION INTAKE AND CHANGES IN BODY COMPOSITION ON INCIDENCE OF

INJURY IN COLLEGIATE WRESTLERS

Dasari Sai Nivedita, Biology, Undergraduate Student

Faculty Mentor: Stephen Ratchford, Health and Exercise Science

Co-Author(s): Sophie Osada, Rachel Szeghy, Valesha Province, Laurel Koontz, Landry Bobo, Nina Stute,

Marc Augenreich, Andrew Putnam, Jonathon Stickford, Abigail Stickford, Stephen Ratchford

Title: LONGITUDINAL TRACKING OF CARDIAC ALTERATIONS AMONG YOUNG ADULTS WITH

SARS-COV-2

Jana Sherrill, Nutrition, Graduate Student

Faculty Mentor: Sandi Lane, Nutrition and Health Care Management

Co-Author(s): N/A

Title: EVALUATION OF STAFFING DURING HURRICANES FLORENCE AND MICHAEL

Nick Stevens Jr., Exercise Science, Graduate Student

Faculty Mentor: Kimberly Fasczewski, Health and Exercise Science

Co-Author(s): Paige Bramblett, Jennifer Thornton-Brooks

Title: UNDERSTANDING MULTIPLE SCLEROSIS CHARITY EVENT PARTICIPATION: IS BEHAVIORAL

ECONOMICS THE MISSING LINK TO INCREASING PHYSICAL ACTIVITY?

Nina Stute, Exercise Science, Graduate Student

Faculty Mentor: Abigail Stickford, Health and Exercise Science

Co-Author(s): Valesha Province, Marc Augenreich, Jonathon Stickford, Stephen Ratchford

Title: SYMPATHETIC NEURAL ACTIVITY AND HEMODYNAMICS IN YOUNG ADULTS RECOVERING

FROM SARS-COV-2

Gracyn Travitz , Public Health, Undergraduate Student

Faculty Mentor: Adam Hege, Health and Exercise Science

Co-Author(s): N/A

Title: THE IMPACTS OF FOOD INSECURITY ON SCHOOL-AGED CHINESE CHILDREN

Charles (Chip) Weir, Geography, Undergraduate Student

Faculty Mentor: Johnathan Sugg, Geography and Planning

Co-Author(s): N/A

Title: SOME GEOGRAPHIC PERSPECTIVES ON THE RELATIONSHIP BETWEEN POLITICAL

PARTISANSHIP AND CLIMATE CHANGE BELIEFS IN THE US

Cameron Welsh, Physics, Undergraduate Student

Faculty Mentor: Sayan Chandra, Physics and Astronomy Co-Author(s): Allison Basili, Barret Odom, Tonya S. Coffey

Title: GROWTH AND CHARACTERIZATION OF THERMOCHROMIC VANADIUM OXIDE FILMS

Trenten Winebarger, Exercise Science, Undergraduate Student Faculty Mentor: Jonathan Stickford, Health and Exercise Science

Co-Author(s): Augenreich, M.A., Szeghy, R.E., Province, V.M., Stute, N.L., Stickford, A.S.L., Ratchford, S.M. Title: CHANGES TO BODY COMPOSITION IN YOUNG ADULTS FOLLOWING SARS-COV-2 INFECTION

Emily Xiong, Biology, Graduate Student Faculty Mentor: Michael Opata, Biology

Co-Author(s): N/A

Title: MODERATE MALNUTRITION DECREASES MALARIA-SPECIFIC EFFECTOR CD4+ T CELLS

Ava Young, Psychology, Undergraduate Student Faculty Mentor: Timothy Ludwig, Psychology Co-Author(s): Cori Ferguson, Nicholas Granowsky

Title: VALIDATING THE SAFETY MEASUREMENT CULTURE SURVEY: ASSESSING EMPLOYEE SAFETY

REPORTING

Asaf Zemah, Social Work, Graduate Student

Faculty Mentor: Maureen MacNamara, Social Work

Co-Author(s): N/A

Title: ATTITUDES TOWARDS HUMAN AND NONHUMAN ANIMALS

Performance Presentation - Afternoon 12:30-4:00pm

Jordan Priest, Interdisciplinary Studies, Undergraduate Student

Faculty Mentor: Ann Kaplan, Interdisciplinary Studies

Co-Author(s): N/A

Title: WEAVING IDENTITIES

Oral Presentations - Afternoon Sessions 12:30-4:00pm

Nick Cellini, Languages, Literatures, and Cultures, Undergraduate Student Faculty Mentor: Adrienne Erazo, Languages, Literatures and Cultures

Co-Author(s): N/A

Title: ANALYSIS OF YURI HERRERA'S SIGNS THAT WILL PRECEDE THE END OF THE WORLD AND

HOW IT METAPHORICALLY REPRESENTS THE LATINX IMMIGRANT EXPERIENCE

Kathleen Duckett, Geology, Undergraduate Student

Faculty Mentor: Sarah Carmichael, Geological and Environmental Sciences

Co-Author(s): Johnny Waters, Peter Koenigshof, Ariuka Munkhjargal

Title: LATE DEVONIAN ROCKS FROM A NEW SITE: THE BAYANKHOSHUU RUINS OF SOUTHWESTERN

MONGOLIA

Jacob Greenfield, Engineering Physics, Graduate Student Faculty Mentor: Christopher Thaxton, Physics and Astronomy

Co-Author(s): N/A

Title: METEOROLOGICAL DATA TRANSMISSION AND ACQUISITION SYSTEM FOR A DRONE.

Abdel Issa, Computer Science, Undergraduate Student Faculty Mentor: Andrew Polonsky, Computer Science

Co-Author(s): N/A

Title: METATHEORY OF LAMBDA CALCULUS USING THE NESTED TYPE REPRESENTATION

Sarah Daniel Jackson, School Psychology, Graduate Student

Faculty Mentor: Dr. Jim Deni, Psychology

Co-Author(s): Dr. Stephanie Corcoran (The University of Alabama - Birmingham)

Title: SELF-CARE IN ACTION

Katherine Machen, Biology, Graduate Student Faculty Mentor: Andrew Bellemer, Biology

Co-Author(s): N/A

Title: NOCICEPTOR SENSITIVITY AND PLASTICITY IN DROSOPHILA LARVAE IS REGULATED BY

TRANSLATION INITIATION FACTORS

Aeron McConnell, Physics, Undergraduate Student Faculty Mentor: François Amet, Physics and Astronomy

Co-Author(s): Sara Idris and Brian Opatosky
Title: THE JOSEPHSON JUNCTION CIRCUIT

Rachael Moyer, Educational Leadership, Graduate Student

Faculty Mentor: Alicia Muhammad, Leadership and Educational Studies

Co-Author(s): N/A

Title: SERVING MULTIPLE GODS: A NARRATIVE INQUIRY OF THE CULTURE OF DISTRIBUTED

INSTRUCTIONAL LEADERSHIP IN AN IB MYP SCHOOL

Rachel Nelson, Educational Leadership, Graduate Student Faculty Mentor: Elizabeth Bellows, Curriculum and Instruction

Co-Author(s): N/A

Title: LEARNING TO TEACH IN TROUBLING TIMES: AN EXPLORATION OF CULTURALLY RESPONSIVE

TEACHING AND EDTPA

Alex O'Neill, Geography, Graduate Student

Faculty Mentor: Baker Perry, Geography and Planning

Co-Author(s): Dr. Song Shu, Dr. Maggie Sugg

Title: ANALYTICAL HIERARCHICAL MODELING OF GLACIAL LAKE OUTBURST FLOOD POTENTIAL IN

THE KHUMBU REGION, NEPAL

Brian Opatosky, Physics, Undergraduate Student

Faculty Mentor: François Amet, Physics and Astronomy

Co-Author(s): Sara Idris, Aeron McConnell

Title: JOSEPHSON JUNCTION ELECTRONIC ANALOGUE: PART 3

Elizabeth Popovic, Art and Visual Culture, Undergraduate Student

Faculty Mentor: Heather Waldroup, Art

Co-Author(s): N/A

Title: CLOUDED VISION: ART AND EXHIBITION DURING WWI

Ciara Sailar, Geology, Undergraduate Student

Faculty Mentor: Andrew Heckert, Geological and Environmental Sciences

Co-Author(s): N/A

Title: EXPLORING THE ONTOGENY AND PALEOBIOLOGY OF THE LATE CRETACEOUS CHASMOSAURINE DINOSAUR TRICERATOPS THROUGH HISTOLOGY OF FOSSIL BONES

Austin Simmons, Biology, Graduate Student Faculty Mentor: Maryam Ahmed, Biology

Co-Author(s): Darren Seals

Title: VESICULAR STOMATITIS VIRUS SUPPRESSES THE PHAGOCYTIC CAPACITY OF A

TUMOR-PROMOTING MACROPHAGE POPULATION

Carlie Smith, Economics, Undergraduate Student Faculty Mentor: Brock Stoddard, Economics

Co-Author(s): N/A

Title: FRAMING & INEQUALITY IN PUBLIC GOODS GAMES

Wilson Styres, Computer Science, Undergraduate Student

Faculty Mentor: Jay Fenwick, Computer Science

Co-Author(s): N/A

Title: MAPPALACHIAN: AN IOS APP THAT MAPS THE INTERIOR SPACES OF APP STATE BUILDINGS

Mary Ann Watkins, Public Health, Undergraduate Student

Faculty Mentor: Christopher Seitz, Health and Exercise Science

Co-Author(s): N/A

Title: US COLLEGE STUDENTS' USE AND PERCEPTIONS OF CIGARETTES AND E-CIGARETTES FROM

2000 TO 2019

Tyree Wilmoth, Sustainable Technology, Graduate Student

Faculty Mentor: Jeff Ramsdell, Sustainable Technology and the Built Environment

Co-Author(s): N/A

Title: CHARACTERIZING THE INFLUENCE OF IMPLEMENTING ORGANIZATIONS ON HOLLOW FIBER

MEMBRANE FILTER ADOPTION

Alex Zepka, Exercise Science, Undergraduate Student

Faculty Mentor: Steve Ratchford, Health and Exercise Science

Co-Author(s): Valesha Province, Laurel Koontz, Nina Stute, Marc Augenreich,

Jonathon Stickford, and Abigail Stickford

Title: LONGITUDINAL TRACKING OF HEMODYNAMICS AND METABOLISM DURING HANDGRIP

EXERCISE AMONG YOUNG ADULTS WITH SARS-COV-2

Poster Presentations - Afternoon Session 12:30-4:00pm

Elliot Adler, Exercise Science, Undergraduate Student

Faculty Mentor: Andrew Heckert, Geological and Environmental Sciences

Co-Author(s): Zackary Ore

Title: IDENTIFYING UNPUBLISHED PALEOPATHOLOGIES IN TYRANNOSAURID (DINOSAURIA:

THEROPODA) SPECIMENS ON PUBLIC EXHIBIT

Shamsuddin Ahmed, Geology, Undergraduate Student

Faculty Mentor: Andrew Heckert, Geological and Environmental Sciences

Co-Author(s): Luke Rose, Spencer Randleman, Isaac Pugh, Joel Crothers, James Meyer

Title: PRELIMINARY TAPHONOMY OF THE VERTEBRATE FOSSIL ASSEMBLAGE FROM THE REVUELTIAN (UPPER TRIASSIC: NORIAN) AGE GARITA CREEK SITE OF EAST-CENTRAL NEW

MEXICO, USA

Andrew Bagwell, Geography, Graduate Student

Faculty Mentor: Dennis Gilfillan, Appalachian Energy Center

Co-Author(s): Caity Duncan and Caroline Fehlman

Title: THE GEOGRAPHIC DISTRIBUTION OF CLIMATE CHANGE RESPONSIBILITIES AND BURDENS IN

THE UNITED STATES

Evan Barnes, Engineering Physics, Graduate Student Faculty Mentor: Brooke Hester, Physics and Astronomy

Co-Author(s): N/A

Title: ENGINEERING AN OPTICAL TWEEZER APPARATUS

Erica Blackburn, Nutrition, Graduate Student

Faculty Mentor: Alisha Farris PhD, RDN, Nutrition and Health Care Management

Co-Author(s): Marco Meucci PhD, John Arrowood MS, RDN

Title: EVALUATION OF A SUMMER CAMP ON FOOD AND DRINK BEHAVIORS

Connor Briggs, Mathematics, Undergraduate Student Faculty Mentor: Eric Marland, Mathematical Sciences

Co-Author(s): N/A

Title: REVISIONS IN UNITED NATIONS ENERGY STATISTICS DATA: CAN CHANGES TO THE PAST

IMPROVE OUR UNDERSTANDING OF THE PRESENT?

Jakobe Bussey, Computer Science, Undergraduate Student

Faculty Mentor: Andrew Polonsky, Computer Science

Co-Author(s): N/A

Title: FROM POSETS TO BOOLEAN ALGEBRAS: A CASE STUDY OF FORMALIZING MATHEMATICS IN

DEPENDENT TYPE THEORY

Ben Capell, Geography, Graduate Student

Faculty Mentor: Jeff Colby, Geography and Planning

Co-Author(s): Dr. Derek Martin

Title: GIS ANALYSIS FOR MICROHYDROELECTRIC POWER ESTIMATION

Christopher Cardwell, Social Work, Graduate Student

Faculty Mentor: Dr. Jill Juris Naar, Recreation Management and Physical Education

Co-Author(s): Katherine Uva, Dr. Anastasia Schulhoff, Dr. Erin Bouldin

Title: COMBATING SOCIAL ISOLATION, LONELINESS, AGEISM, AND THE DIGITAL DIVIDE USING AN

INTERGENERATIONAL REVERSE-MENTORING MODEL.

Hannah Castrogiovanni, Psychology, Graduate Student

Faculty Mentor: Twila Wingrove, Psychology

Co-Author(s): Allison Curry, Ashley Tate, & Alissa Anderson Call

Title: EFFECTS OF STUDENT AGE ON MOCK JUROR PERCEPTIONS OF A TEACHER-STUDENT

SEXUAL ENCOUNTER

Kelsey Charbeneau, Psychology, Undergraduate Student

Faculty Mentor: Christopher Holden, Psychology

Co-Author(s): Dr. Amy Page (Sociology) & Dr. Andrew Smith (Psychology)

Title: CLARIFYING SADOMASOCHISM IN THE REALM OF SADISTIC NOMENCLATURE

Ishani Chattopadhayay, Biology, Undergraduate Student

Faculty Mentor: Andrew Bellemer, Biology

Co-Author(s): N/A

Title: THE ROLE OF TNF ALPHA IN NOCICEPTIVE HYPERSENSITIZATION

Lillie Cook, Biology, Undergraduate Student

Faculty Mentor: Abigail Stickford, Health and Exercise Science

Co-Author(s): Valesha Province, Marc Augenreich, Jonathon Stickford, Stephen Ratchford

Title: LONGITUDINAL TRACKING OF HEART RATE AND BLOOD PRESSURE IN INDIVIDUALS

RECOVERING FROM SARS-COV-2

Makenzie Corgan, Exercise Science, Undergraduate Student Faculty Mentor: Scott Collier, Health and Exercise Science Co-Author(s): Sarah Brown, Paige Bramblett, Ben Lloyd

Title: DETRIMENTAL SLEEP SCHEDULES IN FIREFIGHTERS AND POLICE OFFICERS

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Title: EVALUATION OF PULMONARY FUNCTION DURING RECOVERY FROM SARS-COV-2 INFECTION

IN YOUNG ADULTS

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Title: THE IMPACT OF SEA-LEVEL RISE ON SALTWATER INTRUSION FOR COASTAL AQUIFERS IN

NORTH CAROLINA

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Co-Author(s): Dr. Jennifer Runkle

Title: UNDERSTAND THE CONCURRENT RISK OF MENTAL HEALTH, POOR AIR QUALITY, AND

DANGEROUS WILDFIRE EVENTS IN THE COVID19 PANDEMIC

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Title: THE MECHANISMS OF MYOCARDIAL INJURY IN COVID-19: AN INTEGRATIVE REVIEW

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Title: DESIGN AND EVALUATION OF A FOOD SECURITY COURSE FOR COLLEGE STUDENTS: A PILOT

STUDY

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Title: LASER TWEEZERS MANIPULATION OF A TRAPPED MICROSPHERE IN A RAMAN EXCITATION

BEAM

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Title: OPTIMIZATION OF DYE-LABELING TO DETERMINE THE IMPACT OF ONCOLYTIC VSV ON T47D

AND MDA-MB-231 BREAST CANCER CELLS

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Title: HEARTBEAT RECORDINGS IN MUSIC THERAPY: A SEQUENTIAL-EXPLANATORY MIXED

METHODS STUDY

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Title: FLUORESCENCE ANISOTROPY

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Title: LINKING PSYCHOLOGY CURRICULUM WITH CAREER SKILLS: THE FACULTY PERSPECTIVE

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Title: CALIBRATION OF DUAL OPTICAL LASER FOR STUDY OF SARCOMERES THROUGH AN ACTIN

CONSTRUCTED MODEL

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Title: APP STATE V. COVID-19

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Title: FOOD AND HOUSING INSECURITY AND THE RELATIONSHIP WITH SLEEP HEALTH OUTCOMES AMONG A SAMPLE OF STUDENTS FROM EIGHT NORTH CAROLINA UNIVERSITIES AND COLLEGES

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Title: PHOTOGRAMMETRIC CONSTRUCTION OF A TOOTH WHORL OF THE GIANT EXTINCT SHARK

OTODUS MEGALODON (MEGALODON)

James Meyer, Geology, Undergraduate Student

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Co-Author(s): Joel Crothers, Isaac Pugh, Luke Rose, Shamsuddin Ahmed, Spencer Randleman

Title: AN UPPER TRIASSIC (REVUELTIAN: MID-NORIAN) FOSSIL ASSEMBLAGE FROM THE GARITA

CREEK MICROVERTEBRATE LOCALITY OF EAST-CENTRAL NEW MEXICO

Ashlyn Minton, Nutrition, Graduate Student

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Title: NUTRITIONAL NEEDS OF LOW-INCOME FAMILIES WITH CHILDREN SERVED BY A LOCAL FOOD

PANTRY

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Title: FOOD AND HOUSING INSECURITY AND THE DIFFERENCES BETWEEN LIVING ON-CAMPUS AND

OFF-CAMPUS AMONG A SAMPLE OF STUDENTS AT EIGHT DIFFERENT NC UNIVERSITIES AND

COLLEGES

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Title: THE MOST FREQUENTLY INJURED DINOSAURS: WHAT CAN CENTROSAURUS,

PACHYRHINOSAURUS, AND TRICERATOPS TELL US ABOUT DINOSAUR PALEOPATHOLOGY?

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Title: CARDIAC ABNORMALITIES AMONG YOUNG ADULTS WITH SARS-COV-2

Christian Payne, Mathematics, Undergraduate Student Faculty Mentor: Vicky Klima, Mathematical Sciences

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Title: GENERALIZATIONS OF LEIBNIZ AND LIE ALGEBRAS

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Title: VERBAL DE-ESCALATION TRAINING TO INCREASE NURSING STUDENT CONFIDENCE FOR

HANDLING PATIENT AGGRESSION

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Title: WISHFUL THINKING IN THE 2020 U.S. PRESIDENTIAL ELECTION: DOES THE

PREFERENCE-EXPECTATION LINK CHANGE OVER TIME?

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Title: FROM SUBSTANCE USE TO MENTAL HEALTH: HOW COVID-19 DISPROPORTIONATELY

AFFECTED LGBTQ+ COLLEGE STUDENTS

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Title: AN OBSERVATION OF SUPERNUMERARY CARINAE IN REVUELTIAN (TRIASSIC:MID-NORIAN) PHYTOSAUR TEETH FROM THE BULL CANYON FORMATION OF EAST-CENTRAL NEW MEXICO

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Title: REGULATION OF SEIZURE SUSCEPTIBILITY AND NOCICEPTION SENSITIVITY IN DROSOPHILA

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Title: POLAR LOOP CONSTRUCTION OF THE MAXIMUM EXPIRATORY FLOW VOLUME LOOP DOES

NOT CHANGE QUANTIFICATION OF EXPIRATORY FLOW LIMITATION

Nicolas Simard, Industrial-Organizational Psychology and Human Resource Management, Graduate Student Faculty Mentor: Shawn Bergman, Psychology

Co-Author(s): Teague Vreeland, Braxton Lee, Andrew Webb, Mackenzie Law, Madison Sexton, Erik Medeiros Title: MOVING TOWARD SUSTAINABILITY: AN INVESTIGATION INTO THE RELATIONSHIP BETWEEN ESG SCORES AND ORGANIZATIONAL OUTCOMES IN HRM

Lee Sturgis, Biology, Graduate Student Faculty Mentor: Andrew Bellemer, Biology

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Title: THE ROLE OF THE NOTCH SIGNALING PATHWAY IN DROSOPHILA NOCICEPTION

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Title: AN ASSESSMENT OF THE IMPACT OF STORMWATER MANAGEMENT PRACTICES ON STREAM

SALT ION CONCENTRATION IN THE SOUTH FORK NEW RIVER WATERSHED

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Title: POCKET TURCHIN