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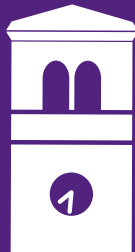
24th Annual

CSBS

Student Research Conference



April 12, 2017



CSBS

COLLEGE OF SOCIAL &
BEHAVIORAL SCIENCES

University of Northern Iowa

Welcome and Acknowledgments

Welcome to the 24th Annual College of Social and Behavioral Sciences Student Research Conference! The conference provides undergraduate and graduate students the opportunity to exchange ideas, present their research, and learn about developments in the social sciences. We are very proud to host faculty and students from colleges and universities throughout Iowa.

Many thanks to our student presenters and their faculty advisers and supporters. We would also like to convey our sincere gratitude to our moderators and volunteers.

To learn more about the College of Social and Behavioral Sciences, please visit: csbs.uni.edu

Enjoy the Conference!!

The Conference Committee

Dilbur D. Arsiwalla, Psychology

Gregory Bruess, Associate Dean, CSBS (Chair)

Fernando Calderón, History

William Henninger, School of Applied Human Sciences

Cindy Juby, Social Work

Kristin Mack, Sociology, Anthropology, and Criminology

Andrey Petrov, Geography

Anne Woodrick, Sociology, Anthropology, and Criminology

Jill Wittrock, CSBR & Political Science

Program Schedule

Check-in

2:00 - 4:30pm | Seerley Hall, Great Reading Room

Poster Set-up: Session I

2:15-2:30pm | Seerley Hall, Great Reading Room

Session I

2:30 - 3:15pm

- **Poster Presentations** | Seerley Hall, Great Reading Room
- **Oral Presentations** | Seerley Hall, Rooms 14 & 120

Poster Set-up: Session II

3:15-3:30pm | Seerley Hall, Great Reading Room

Session II

3:30 - 4:15pm

- **Poster Presentations** | Seerley Hall, Great Reading Room
- **Oral Presentations** | Seerley Hall, Rooms 14, 112, 120 & 220

Panels

4:30 - 5:30pm

- **Student Internship Experiences** | Seerley 112
- **Student Research Opportunities** | Seerley 120

Conference Concludes by 5:30pm

Sponsor

Office of the Dean, College of Social and Behavioral Sciences

SESSION I - POSTER PRESENTATIONS

2:30 – 3:15pm | Seerley Hall, Great Reading Room

1. LIJING MA

PERSONALITY AS A MODERATOR OF SLEEP AND AFFECT

UNI | Psychology

Co-authors: Gunnar Whisler, Dilbur Arsiwalla, Robert T. Hitlan, Catherine Desoto

Faculty Advisor: Dilbur Arsiwalla

Personality traits moderate the relationship between sleep quality and positive and negative affect. For people who have low extraversion and low agreeableness, low sleep quality predicts low positive affect. For people who have high neuroticism, low sleep quality predicts high negative affect.

2. GUNNAR E. WHISLER

THE ROLE OF ETHNIC-RACE DIFFERENCES IN THE RELATIONS BETWEEN STRESS COPING STRATEGIES AND SLEEP PATTERNS

UNI | Psychology

Co-author: Dilbur Arsiwalla

Faculty Advisor: Dilbur Arsiwalla

Race/ethnicity moderated the relationships between coping strategies and insomnia. White Americans were found to have lower insomnia when they used less religious coping, substance use, and behavioral disengagement. Non-White Americans that engaged in positive reinterpretation, instrumental support, emotional support, and planning coping strategies were less likely to develop insomnia.

3. DACIA K. OBERHELMAN

PERCEPTIONS OF TRANSGENDER POPULATIONS: AN EDUCATIONAL MODULE TO INCREASE KNOWLEDGE AND REDUCE NEGATIVE ATTITUDES

UNI | Psychology

Co-author: Dilbur Arsiwalla

Faculty Advisor: Dilbur Arsiwalla

The current study aims to increase knowledge about transgender populations and reduce negative attitudes with the use of a psychoeducational module. The role of contact and familiarity on stigma toward transgender populations is also investigated. Finally, a biological explanation of transgender and its effect on stigma is examined.

4. OLIVIA RIGDON

AN EXAMINATION OF THE ASSOCIATION BETWEEN TRAUMATIC BRAIN INJURY AND SLEEP DISRUPTIONS AMONG ATHLETES IN CONTACT AND NON-CONTACT SPORTS

UNI | Psychology

Co-author: Dilbur Arsiwalla

Faculty Advisor: Dilbur Arsiwalla

This study examined the association between TBI and sleep patterns among 176 collegiate and professional athletes. Sleep patterns among athletes in contact sports (N = 132) and non-contact sports (N = 44) were compared. We found associations between TBI and 4 sleep disorders, and contact sports were associated with apnea.

5. MARJORIE PERKINS

GENDER DIFFERENCES IN CIVILIAN STIGMA TOWARDS COMBAT-RELATED AND MILITARY SEXUAL TRAUMA-RELATED PTSD

UNI | Psychology

Faculty Advisor: Elizabeth Lefler

Gender differences in civilian stigma towards combat-related and Military Sexual Trauma-related PTSD were investigated using a vignette study and five measures stigma. ANOVA analyses revealed a pattern of greater stigma associated with the male character and with PTSD than a physical injury, but minimal differences between combat-related and MST-related PTSD.

6. DYLAN J. PIEPER

THE RELATIONS BETWEEN PERSONALITY AND SOURCE OF DIETARY PROTEIN

UNI | Psychology

Faculty Advisor: Catherine Desoto

Participants dominant source of dietary protein (animal or plant) correlated with several personality dimensions, including openness, extraversion, and agreeableness. The personalities of people who consume more plant protein compared to animal protein will be discussed.

7. KAITLYN M. FOX **ORAL CONTRACEPTIVE USE AND TEST OF THE EYE RESULTS**

UNI | Psychology

Faculty Advisor: Catherine DeSoto

It was hypothesized that women who were receiving estrogen-containing oral contraceptives would be better at the Test of the Eyes (a test of empathy) compared to women who were not. There was no significant correlation, $t(72)=1.6$, $p=.12$. Past research and the role of testosterone will be discussed.

8. ELLE M STACKHOUSE **HOW HORMONES CAN SAVE THE WORLD: EMPATHY AND THE USE OF ORAL CONTRACEPTIVES**

UNI | College of Education

Faculty Advisor: Catherine DeSoto

Research suggests that hormones may relate to empathy, but the research regarding estrogen has been lacking/inconsistent. Women's use of oral contraceptives was studied in relation to a common test of empathy. It was found that there was a positive correlation between oral contraceptive use and the Empathy Quotient $t(51)=2.188$, $p=.03$.

9. ELIJAH J. EVANS **A CASE FOR ANGRY EATERS?**

UNI | Psychology

Faculty Advisor: Catherine DeSoto

Participants were given both the Diet History Questionnaire II and the Symptom Checklist 90. A significant correlation between scores on the measures of hostility and total caloric intake was found. This relationship remained significant even after controlling for gender.

10. MEGAN KENNEDY* **A REVIEW STUDY OF THE EFFECTS OF EMOTIONAL AMBIVALENCE: PHYSICAL, PSYCHOLOGICAL, AND INTERPERSONAL OUTCOMES**

UNI | Psychology

Co-authors: Katelyn Melcher, Jason Fly and Seong-In Choi

Faculty Advisor: Seong-In Choi

Emotional ambivalence is an attribute related to conflicting emotions. Through a systematic literature review of 24 research articles, this study seeks to analyze outcomes of emotional ambivalence. Results indicate that emotional ambivalence is related to chronic pain, decreased physical and psychological well-being, and differences in negotiation outcomes.

11. SHELBY E. SNELL **THE EFFECTS OF LINGUISTIC OSTRACISM ON GROUP-BASED PREJUDICE, PERCEIVED THREAT, AND GROUP COHESION**

UNI | Psychology

Co-authors: Helen Harton, Robert T. Hitlan

Faculty Advisor: Helen Harton

Linguistic ostracism is any communication setting in which a target individual/group is ostracized by another individual/group in a language that the target has extremely limited ability to understand. We investigated whether being included vs. excluded in English vs. Spanish would affect prejudice toward immigrants, perceived threats, negative stereotypes, or group cohesion.

12. JOYANN N. MASKE **KEEPING THEM ON THEIR TOES: THE POSITION OF THE ROMANTIC BALLERINA IN NINETEENTH CENTURY IN FRANCE 1830 TO 1848**

UNI | History

Faculty Advisor: Brian Roberts

This project focuses on the life of the ballet rat in post-revolutionary France. The points that are explored throughout this paper are: their beginnings, their careers and rise to fame, the attentions given to them by bourgeois admirers, and the pressures of the expectations that accompanied being a romantic ballerina during the July Monarchy.

13. MARISSA B. BENISCHEK **DEATH BY GOLD FEVER: ANIMALS IN THE KLONDIKE GOLD RUSH, 1897-1900**

UNI | History (Non-Teaching)

Faculty Advisor: Brian Roberts

Animals in the Klondike Gold Rush were seen strictly as commodities. Due to this ideology, the sale of these animals sparked a rise in consumerism. While the Progressive Era allowed for changing views, animals were still seen as a resource; which eventually, could be the way humans are viewed.

14. STEPHANIE J. STRONG **IDENTIFYING MATERNAL CHARACTERISTICS AND DESIRABILITY OF PREGNANCY TRENDS FOR THE 2015 IOWA BARRIERS TO PRENATAL CARE PROJECT**

UNI | Psychology

Faculty Advisor: Ki H. Park

Unintended childbearing is associated with poorer maternal and birth outcomes. The current study surveyed 23,212 new mothers throughout Iowa in 2015. Consistent with previous research,

we found that demographic and socioeconomic differences exist between women with intended versus unintended pregnancies. Findings have implications for future public health policy, clinical decision-making, and reproductive research.

15. JASMINE G. BEECHAM
WORK-FAMILY CONFLICT AND ALCOHOL USE BY IOWA PARENTS IN NON-PROFESSIONAL JOBS

UNI | Psychology
Co-authors: Adam Butler, Brenda Bass
Faculty Advisor: Adam Butler
Alcohol has tension reducing properties, and there is evidence that people consume alcohol to reduce stressors. This project analyzes the relationship between work-family conflict and alcohol consumption in a sample of 81 working parents. Contrary to our hypothesis, work-family conflict was not related to the quantity or frequency of alcohol consumption. In contrast, family-to-work conflict was related to lower alcohol consumption.

16. PETERSON K. WAMBUU
CONSEQUENCES OF CLIMATE CHANGE AND ADAPTATION OF SUBSISTENCE FARMERS AND PASTORAL COMMUNITIES.

UNI | Geography
Co-author: Lazarus Adua
Faculty Advisor: Lazarus Adua
Subsistence farmers and nomadic pastoralists in Kenya depend on rain for farming. Recent changes on climate have led to prolonged droughts and unpredictable weather conditions hence loss of crops and animals. This research will investigate ways the Kenyan government, NGO's and locals are coming up with adaptation strategies to the changing climate conditions in improving farming activities for better yields.

17. MATTISON E. REGAN
FAMILY SUPPORT AND MENTAL HEALTH: THE MODERATING ROLE OF THE BIG 5 PERSONALITY TRAITS

UNI | Psychology
Co-author: Greta Kos
Faculty Advisor: Dilbur Arsiwalla
The goal of the study is to identify whether personality traits moderate the relationship between family support and mental health. Moderated regression analysis indicated that individuals with low family support and high neuroticism as well as low family support and low conscientiousness are at an increased risk for certain disorders.

18. DONAVAN RATNASINGAM
DIFFERENCES IN CAREER INDECISION BETWEEN INDIVIDUALISTIC AND COLLECTIVISTIC CULTURES AMONG UNDERGRADUATES

UNI | Psychology
Faculty Adviser: Michael Gasser
The purpose of this study is to investigate the differences in career indecision between undergraduate students from individualistic and collectivistic cultures. The Geert Hofstede dimensions of national culture model was used to determine levels of individualism associated with each country. Participant experience of general and career indecision were both explored.

19. DIKSHA OJHA
GENDER DIFFERENCES ON PAY EXPECTATIONS DURING THE INITIAL OFFER OF HIRE: A COMPARISON BETWEEN AMERICAN, SOUTH ASIAN, AND EAST ASIAN STUDENTS AT UNIVERSITY OF NORTHERN IOWA

UNI | Psychology
Faculty Adviser: Michael Gasser
This study looks at three groups: American, South Asian, and East Asian students, and examines the gender differences and the influence of culture on pay expectations and negotiation at the initial offer of hire.

20. RACHEL M BRUNS*
UNIVERSITY OF NORTHERN IOWA PARKING LOT CRIME: CRIME MAPPING APPLICATION

UNI | Sociology, Criminology
Faculty Advisor: Andrey Petrov
My research will be applying a spatially analytical perspective to the recorded criminal behavior in UNI parking lots. Using crime log data crime amounts, types, and hot spots will be analyzed. Possible explanations for my findings will be offered, along with suggestions for crime reduction strategies.

21. CHARCEY PETERSEN*
THE ARCTIC'S NEXT GENERATION: MAPPING THE GEOGRAPHIES OF YOUTH IN ALASKA

UNI | Geography
Faculty Advisor: Andrey Petrov
In this study of Arctic youth, there exist three age cohorts; 15 to 19, 20-24, and 25-29. The goal of this research is to understand the spatial distribution of each age cohort and sex ratios by calculating and analyzing location quotients.

SESSION I - ORAL PRESENTATIONS

Seerley Hall, Room 14

1. 2:30-2:45 pm

VICKI J. SIMPSON

JFK: A BODY OF EVIDENCE--1955-1965

UNI | History

Faculty Advisor: Barbara Cutter

This paper investigates President John F. Kennedy's decision-making processes during the Cuban Missile Crisis using the twin lenses of politics and the human body. This paper anticipates the next major development in Kennedy scholarship—the release of 3,000+ new documents by the Assassination Records Review Board on Oct. 26, 2017.

2. 2:45-3:00 pm

ANDREW D. OLSON

"LONG COLD DAYS:" THE NATURAL ICE INDUSTRY, 1880-1940

UNI | History

Faculty Advisor: Barbara Cutter

The natural ice industry required hard work in the harshest elements of nature. The labor involved in human interaction with nature is often overlooked by environmental historians. By exploring the ice business through this analytical lens we may better understand how people have interacted with nature.

3. 3:00-3:15 pm

JACOB D. HARBERTS

INTEGRATED DETERRENCE STRATEGY OF THE ADVANCING BATTLEFIELD

UNI | Political Science

Faculty Advisor: Evan Renfro

The purpose of this project is to assess current issues with the deterrent ability of the U.S. military. To counter non-linear warfare and its effect on U.S. tactics and deterrent strategy, the U.S. should implement a new "swarm" warfare doctrine with new highly advanced weapons.

Seerley Hall, Room 120

1. 2:30-2:40 pm

ROLAND C. COHAGEN

NEW KIDS ON THE GLOCK: THE RISE AND DECLINE OF TOY GUNS IN EARLY COLD WAR AMERICA 1948 - 1969

UNI | History

Faculty Advisor: Brian Roberts

With Communism on the horizon, fathers back from WWII worried about their sons' masculinity. Toy gun culture expanded to allay these fears. Ideals of aggressive masculinity were transmitted by fathers to sons through toy guns. These family bonds and gender roles add another dimension to the US fear of Communism.

2. 2:45-3:00 pm

TRE M. GOODHUE

THE RISE OF BOHEMIA: THE BEATNIK INFLUENCE ON CIVIL RIGHTS AND ANTI-CONFORMISTS IN AMERICA, 1944 - 1966

UNI | History

Faculty Advisor: Brian Roberts

This paper addresses the conformist attitude of the 1950s and how this affected the rise of the poets and novelists of the Beat Generation. This is addressed from the angle that the Beat Generation created the anti-conformist movement in American in the 1950s as a retaliation movement against conformism.

3. 3:00-3:15 pm

KEATON O'NEILL

SECRECY WITHIN THE CENTRAL INTELLIGENCE AGENCY'S OXCART PROGRAM, FROM 1957-1968

UNI | Public History

Faculty Advisor: Brian Roberts

During the height of the cold war, specifically 1957 to 1968, the CIA needed a replacement spy plane for the U2 platform. During this time, two platforms were proposed, but the less capable program ended up succeeding the U2 after an intense bureaucratic showdown.

SESSION II - POSTER PRESENTATIONS

3:30 - 4:15pm | Seerley Hall, Great Reading Room

1. JENNA A. GRAY

WITH HER OR HIM?: PERSONALITY TRAITS OF CURRENT PRESIDENTIAL CANDIDATE SUPPORTERS

UNI | Psychology

Co-authors: Alba Karuni, Allison Wager, Maribel Guevara-Meyers, Helen Harton
Faculty Advisor: Helen Harton

After measuring personality and political opinions in 229 community members (pre-election) and 138 college students (post-election), Trump supporters scored higher on social dominance orientation, right wing authoritarianism, and religious fundamentalism than Clinton supporters. There were no differences in Big Five personality traits, belief in conspiracies, verbal intelligence, or constructive patriotism.

2. ALLISON WAGER

ARE "THEY" WITH HER? TRUMP/CLINTON SUPPORTERS AND THE MEDIA

UNI | Psychology

Co-authors: Maribel Guevara, Jenna Gray, Alba Karuni, Helen Harton
Faculty Adviser: Helen Harton

In a pre-election community sample and a post-election college student sample, Trump supporters were more likely to watch FOX News and see the mainstream media as pro-Clinton than Clinton supporters. Otherwise, Trump and Clinton supporters were fairly similar in their media usage and perceptions of media bias.

3. MARIBEL SARAH GUEVARA-MYERS

CULTURAL INFLUENCES ON TIME PRESSURE IN THE U.S. AND TAIWAN

UNI | Psychology

Co-author: Helen Harton
Faculty Adviser: Helen Harton

We measured walking speeds in two locations in the U.S. and Taiwan. People in Taiwan walked slower, especially when they were in a shopping area vs. downtown. Females walked slower than males. People of ages 50 years or older walked slower than middle aged and younger aged people.

4. EMMA L. WELCH

PREDICTORS OF ATTITUDES TOWARD TRANSGENDER MEN AND WOMEN

UNI | Psychology

Co-authors: Hailey A. Hatch, Antoinette G. Fleming, Natalie L. Kaufman, Helen Harton
Faculty Advisor: Helen Harton

We investigated whether inducing empathy would decrease negative attitudes toward transgender individuals. Although the stories did not induce empathy, people who reported more dispositional empathy, were lower in religiosity, conservatism, and authoritarianism, and who believed that transgenderism is biological reported more positive attitudes.

5. ALBA KARUNI

ARE FEMALE STUDENTS AND MORE COMMUNAL STUDENTS LESS LIKELY TO CHOOSE STEM MAJORS?

UNI | Psychology

Co-author: Helen Harton

Faculty Adviser: Helen Harton

We examined 1922 students' self-report measures from the 2010 Mapworks questionnaire and Registrar data containing students' demographic information. Men were more likely to choose STEM majors than women, but there was no relationship between majors and communality. Men and STEM majors reported greater analytical-skills than did women and non-STEM majors.

6. HAILEY A. HATCH

SCIENCE, RELIGION, AND MORAL FOUNDATIONS: PREDICTING ATTITUDES TOWARD CONTROVERSIAL ISSUES

UNI | Psychology

Co-author: Helen Harton

Faculty Advisor: Helen Harton

Religious worldviews and all five moral foundations predicted attitudes toward at least some of a wide variety of controversial issues for community participants and college students. Scientific worldview was a significant predictor of attitudes toward science, LGBT issues, women's reproductive rights, and the right to die.

7. JEROME GRAHAM

WHO'S MORE AFRAID, PART II: POLITICAL IDEOLOGY, FEAR, AND CONCERN

UNI | Psychology

Co-authors: Manual Salinas, Emily Wetherell, Lijing Ma

Faculty Advisor: Helen Harton

Jerome Graham, Lijing Ma, Manuel Salinas, Emily Wetherell, Helen Harton

Consistent with previous results, liberals and moderates reported greater fear

of environmental degradation than conservatives, but reported similar levels

of fear for crime, phobia targets, personal safety, self-esteem- related issues, social

situations, medical problems, and finances.

People higher in agreeableness and higher in neuroticism generally reported greater levels of concern/fear.

8. KALIANA VILLA

GENDER DIFFERENCES AND BELIEFS ABOUT DEPRESSION

UNI | Psychology

Co-authors: Tierra Luppen, Ben Fienup, Porsha Isbell, Kristin Roof, Seth Brown

Faculty Advisor: Seth Brown

Beliefs about depression influence people's views and interactions. We expected to find

female participants viewed depression more positively than male participants. There were

no substantial differences in beliefs with one exception. Men reported depression is more

responsive to therapy. These results suggest men may believe therapy is more effective.

9. BEN FIENUP

EXPLORING THE IMPACT OF PRESCRIPTION DRUG ADVERTISEMENTS ON STIGMA OF DEPRESSION

UNI | Psychology

Co-authors: Porsha Isbell, Kristin Roof, Kaliana Villa, Tierra Luppen, Seth Brown

Faculty Advisor: Seth Brown

57 participants were randomly assigned to watch an advertisement for an antidepressant

medication or an automobile. They also completed measures of stigma towards

depression before and after watching the advertisement. The advertisement for the

medication did not have a statistically significant impact on the stigma toward

depression.

10. TIERRA M. LUPPEN

COLLEGE MAJOR & BIPOLAR DISORDER STIGMA

UNI | Psychology

Co-authors: Ben Fienup, Porsha Isbell, Kristin Roof

Faculty Advisor: Seth Brown

This study examined college major in association with level of bipolar disorder

stigma. Business majors were found with the highest mean levels of stigma; social work

and psychology majors were found with the lowest mean levels of stigma. Findings imply

pursued profession is associated with level of bipolar disorder stigma.

11. PORSHA ISBELL

PERSONALITY AND STIGMA TOWARDS DEPRESSION

UNI | Psychology

Co-authors: Kristin Roof, Kaliana Villa, Tierra Luppen, Ben Fienup, Seth Brown

Faculty Advisor: Seth Brown

Previous research has consistently found that stigma is comprised of several different

components. This study aims to see how personality traits are associated with stigma

towards those with depression through measures of stigma and personality.

Personality traits did not significantly account for the variance in four dimensions of stigma.

12. KRISTIN N. ROOF

THE PROTECTIVE ROLE OF COPING MECHANISMS IN THE ASSOCIATIONS BETWEEN SLEEP-WAKE PROBLEMS AND FATIGUE CATASTROPHIZING

UNI | Psychology: Clinical Science

Co-author: Dilbur Arsiwalla

Faculty Advisor: Dilbur Arsiwalla

We assessed participants' sleep-wake problems, perceptions of fatigue

catastrophizing, and coping mechanisms.

People who reported more sleep-wake problems had higher levels of fatigue

catastrophizing; whereas, people who reported less sleep-wake problems

and greater coping (especially positive reinterpretation, planning, humor, and

acceptance) had the lowest levels of fatigue catastrophizing.

13. LIJING MA **THE MODERATING ROLE OF COPING SKILLS IN THE ASSOCIATIONS BETWEEN SELF-DISCLOSURE IN RELATIONSHIPS AND SLEEP QUALITY**

UNI | Department of Psychology
Co-author: Dilbur Arsiwalla
Faculty Advisor: Dilbur Arsiwalla
Greater self-disclosure in relationships has been associated with higher sleep quality (Kane et al., 2014). Coping skills are associated with sleep quality (Matthews et al., 2016). In this study, individuals with high self-disclosure and positive coping mechanisms such as positive reinterpretation, active coping, acceptance, and planning reported better sleep quality.

14. STEPHANIE J. STRONG **THE MEDIATING ROLE OF PERCEIVED STRESS AND LONELINESS IN THE RELATIONSHIP BETWEEN OVERALL SLEEP QUALITY, HEALTH, AND PSYCHOPATHOLOGICAL RISK FACTORS**

UNI | Psychology
Co-authors: Mindy N. Guajardo, Dilbur Arsiwalla
Faculty Advisor: Dilbur Arsiwalla
The current study investigates the mediating role of perceived stress and loneliness in the relationship between psychopathological risk factors (i.e., depression, anxiety, and dysfunctional personality characteristics), health, and sleep disruptions. The study surveyed 204 participants through Amazon Mechanical TURK. Findings have implications for interventions targeting overall physical and mental well-being.

15. MINDY N. GUAJARDO **THE MODERATING ROLE OF DIETARY LIFESTYLE FACTORS ON THE OVERALL SLEEP QUALITY AND PSYCHOPATHOLOGICAL PERSONALITY RISK FACTORS RELATIONSHIP**

UNI | Psychology
Co-authors: Stephanie J. Strong, Dilbur Arsiwalla
Faculty Advisor: Dilbur Arsiwalla
Existing literature reveals dietary lifestyle factors have adverse effects on overall sleep quality. However, research examining these factors as moderators between sleep quality and psychopathological personality risk factors is minimal. The sample consists of 208 participants sampled through

Amazon M-TURK. Preliminary findings indicate support for dietary lifestyle factors moderating this relationship.

16. ELISHEVA HAVLIK **THE PROTECTIVE ROLE OF RESILIENCE IN THE LINKS BETWEEN RISK FACTORS OF PSYCHOPATHOLOGY AND SLEEP DISTURBANCES**

UNI | Psychology
Co-author: Dilbur Arsiwalla
Faculty Advisor: Dilbur Arsiwalla
The purpose of the current study was to investigate the moderating effect of resilience on psychopathology risk factors and sleep disturbances. The sample consisted of 187 MTurk participants. Results indicated that resilience buffered the impact of anxiety, dysfunctional personality, and loneliness on certain sleep disturbances.

17. GRETA E. KOS **THE MODERATING ROLE OF PERSONALITY IN THE ASSOCIATIONS BETWEEN SLEEP PATTERNS AND HEALTH**

UNI | Psychology
Co-author: Dilbur Arsiwalla
Faculty Advisor: Dilbur Arsiwalla
The goal of the current study was to identify whether personality trait domains and personality disorders moderated the relationship between sleep and overall health. We surveyed 202 individuals on Amazon Mechanical Turk. As expected, results indicated greater health problems when participants indicated high scores on personality traits and poor sleep.

18. ANDREW WILLIAMS **GENDER DIFFERENCES AND ATTITUDES TOWARDS HOMOSEXUALITY IN SPORTS**

Upper Iowa University | Psychology
Faculty Advisor: Mackenzie Glander
This research studies how attitudes towards homosexual athletes' presence vary across genders. With 13 female athletes and 45 male athletes using a self-prepared survey consisting of four items, males in general showed a significant unfavorable attitude towards homosexuals compared to females. Attitudes such as these need to be addressed further.

19. VERONICA M. SEHER
COMPARING THE EFFECTS OF ROYAL
HAWAIIAN SANDALWOOD AND DIFFERENT
TYPES OF MEDITATION ON FORGIVENESS
AND MOOD

Luther College | Psychology

Co-author: Maren Phalen

Faculty Adviser: Loren Toussaint

This study examined the effects of aromatized Royal Hawaiian Sandalwood and 3 types of meditation on mood and forgiveness in 68 undergraduates. Aromatized sandalwood appeared to have no effects on mood and unforgiveness, but secular, not Christian, forgiveness meditation reduced unforgiveness.

20. ALIVIA ZUBROD
WORD COUNT ANALYSIS OF FUTURE
CAREER AUTOBIOGRAPHIES:
ASSOCIATIONS BETWEEN EMOTION
WORDS AND MEASURES OF CAREER
IDENTITY AND ADAPTABILITY

Mount Mercy University | Psychology,

Sociology, and Social Work

Co-author: Tyler Lerch

Faculty Adviser: Ron Feldt

The present study examined word counts of 133 undergraduate students' Future Career Autobiographies to investigate associations with vocational identity and adaptability. Correlational analysis indicated associations between several linguistic categories and vocational variables. Vocational identity and engagement were positively correlated with use of analytic writing and pronoun and preposition usage.

21. CHARCEY A. PETERSEN*
LAND USE AND LAND COVER CHANGE AND
PROJECTION: DES MOINES METROPOLITAN
STATISTICAL AREA

UNI | Department of Geography

Faculty Adviser: Bingqing Liang

This study documents the changes in land use and land cover (LULC) throughout the Des Moines Metropolitan Statistical Area over a thirty-year period. Specifically, it mapped the past LULC changes of the DM MSA between the years 1992, 2001, and 2011 and produced a predicted LULC map for the year 2020.

SESSION II - ORAL PRESENTATIONS

3:30 - 4:15pm | Seerley Hall, Rooms TBA

Seerley Hall, Room 14

1. 3:30-3:45 pm

KATELYN A. MELCHER POST-TRAUMATIC STRESS DISORDER AND CHRONIC PAIN: CORRELATES, PREVALENCE, AND IMPLICATIONS

UNI | Psychology

Co-authors: Megan C. Kennedy, Jason M. Fly

Faculty Adviser: Seong-In Choi

The relationship between Post-traumatic Stress Disorder (PTSD) and chronic pain as well as implications for pain management are explored, including comorbidity rates, coping strategies, treatment outcomes and interactions within mental and physical well-being.

2. 3:45-4:00 pm

SALOMI ALADIA INFLUENCE OF STUDY ABROAD ON STUDENTS' CULTURAL ATTITUDES

UNI | Psychology

Faculty Adviser: Helen Harton

Studying abroad is associated with numerous benefits including a reduction in prejudice (Sell, 1983). In this study, I applied Intergroup Contact Theory (Allport, 1954) to students who studied abroad and evaluated whether living with host families while studying abroad moderated attitudes towards individuals from other cultures.

3. 4:00-4:15 pm

YENA BALEKYANI* "PLEASE, CARO, MAKE ME LIGHTER": SKIN BLEACHING IN THE AFRICAN DIASPORA COMMUNITY

UNI | Sociology, Anthropology and Criminology

Faculty Adviser: Marybeth Stalp

The purpose of the study is to gain understanding, how and why skin bleaching occurs in the African Community in the U.S., and how skin bleaching affects them. Previous research in skin bleaching is used to understand its roots in colonial past and its manifestation in the 21st century.

Seerley Hall, Room 120

1. 3:30-3:45 pm

HAYLEY MCCOY EMPOWERING IDENTITIES: MEXICAN WOMEN, THE STUDENT MOVEMENT, AND BEYOND, 1960-1971

UNI | History

Faculty Adviser: Brian Roberts

In the 1960s hippies lived counterculture lives during a time of liberating exploration. Mexican students protesting the government culminated during a massacre at Tlatelolco. Women during the student movement gained equality through participation and fashion empowering them as well, becoming more politically entitled despite the tragic circumstances.

2. 3:45-4:00 pm

SABRINA S. SANTOS CUBA'S NEW WOMAN: THE SYMBOLIC CELIA SANCHEZ

UNI | History

Faculty Adviser: Brian Roberts

An analysis of American and Cuban literature concerning Celia Sánchez is conducted to gain a greater understanding of how each country viewed powerful women. From Cuba's lauding of her grand achievements to America's scathing descriptions such as "sallow" and "thin-faced". Celia is the epitome of a powerful woman portrayed in the media.

3. 4:00-4:15 pm

SYDNEY BYRO* WHERE DOES IT START AND WHEN DID IT END: WOMEN'S ROLE AND THE FEMINIST MOVEMENTS OF YUGOSLAVIA IN THE 20TH CENTURY

UNI | History

Faculty Adviser: Fernando Calderón

Before the socialist revolution, Yugoslavia saw an early formation of women's groups in the mid-late 1800s. During the revolution women actively and significantly participated for various reasons. This paper then looks into how the new socialist society failed to represent women on their value in society.

Seerley Hall, Room 112

1. 3:30-3:45 pm

**ATHILA GEVAERD MONTIBELLER
ESTIMATING FLUXES OF ENERGY AND
EVAPOTRANSPIRATION WITH AN
UNMANNED AIRCRAFT SYSTEM IN AMES,
IOWA**

UNI | Geography

Co-authors: Bingqing Liang, Patrick Pease
Faculty Adviser: Bingqing Liang and Patrick Pease

Evapotranspiration (ET) is a key hydrological variable and has been studied to plan irrigation schedule, understand surface-atmospheric interactions, etc. This research integrates the Unmanned Aircraft System (UAS) technology to estimate and map ET over a soybean and cornfield in central Iowa, in five different stages of crop development.

2. 3:45-4:00 pm

**NARMINA IUSUBOVA
WIND ENERGY RESOURCES AND
SUITABILITY IN THE RUSSIAN ARCTIC**

UNI | Geography

Co-author: Andrey Petrov

Faculty Adviser: Andrey Petrov

North communities undergo the challenges of sustainable development of regions using the fuel energy resources. Wind energy industry implementation can solve these challenges. This research implements theoretical and logical methodology using spatial decision support system approach to provide wind turbine suitability assessment for Russian Arctic.

Seerley Hall, Room 220

1. 3:45-4:00 pm

**VARVARA KORKINA
FASHIONING THE NEW ARCTIC**

UNI | Applied Human Sciences

Co-authors: April A. Torney*, Madeline L. Meyer*

Faculty Adviser: Annette Lynch

This project transformed traditional indigenous Russian designs into CAD fabric prints. Sample prints were test marketed within the indigenous population in Russia. A set of chosen prints were moved into the apparel collection, linked to the past by patterns from traditional dress but restyled to appeal to young, urban consumers.

2. 4:00-4:15 pm

**JORDAN CARUSO*
EFFECTS OF HUMIDITY VARIATION ON THE
PREDICTIVE MEASUREMENTS OF DRAPE
FOR BOTH NATURAL AND MANUFACTURED
CELLULOSIC FABRICS OF DIFFERING
WEIGHTS**

UNI | Textiles and Apparel

Co-authors: Mitchell Strauss, Tyler Grimm

Faculty Adviser: Mitchell Strauss

Overview of Textiles and Apparel studying testing difference in predictive measurements from the Mark-10 testing machine for cotton and rayon fabrics at varying levels of humidity. Expecting results to change with humidity levels. These measurements can be used to create a 3D draped garment on our Optitex system.

*CSBS Undergraduate Student Research Award Recipient

Panels

4:30pm - 5:30pm

Panel 1:

Student Internship Experiences | Seerley 112

- Moderator: Carolyn Hildebrandt
- Morgan Holzer, Family Services: UNI Center for Violence Prevention
- Mallory Feeny, Political Science: United States Department of Agriculture (USDA)
- Claire Guderjahn, Psychology: UNI Spectrum Project

- Marshall Abbe, Social Work: Cedar Valley Hospice
- Abbi Cobb, Sociology: Iowa Department of Human Rights and Breakthrough Series Collaborative
- Haley McCoy, History: UNI Museum

Panel 2:

Student Research Opportunities | Seerley 120

- Fernando Calderón, History
- Jill Wittrock, CSBR and Political Science
- Andrey Petrov, Geography
- B. Keith Crew, SAC (IRB representative)