HUMBOLDT STATE UNIVERSITY

UNIVERSITY LIBRARY | FRIDAY, APRIL 22, 2016

Research Posters
Library 2nd Floor • 3:00 – 5:30pm
Listed A-Z by Poster Title • **Pages 1-39**

Welcome
HSU President Lisa Rossbacher
Library 2nd Floor • 3:20pm

Featured Presentations
Library Fishbowl (2nd Floor)

3:25-3:35pm • The Effect of Posture on Running Economy, Kinematics, and Muscle Activation • **Page 32**

3:40-3:50pm • Habitat Suitability and Selection of Northern Pacific Rattlesnakes at Multiple Spatial Scales • **Page 13**

3:55-4:05pm • Physical Fitness Characteristics of Local Firefighters and Law Enforcement on the Northern Coast of California • **Page 23**

4:10-4:20pm • The Role of Lgl1 in Tumor Forming Properties of Mouse Neural/Progenitor cells • **Page 35**

Musical Performances
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Dance Performances
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Theatrical Performances
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Research Presentations | Library 2nd Floor

1. A Comparative Study on Environmental Impact Assessment (EIA) Procedures and Legal Instruments: A Case Study from Sri Lanka and the United States

Herath Vidyaratne, Economics, NUI Galway, Ireland, Faculty
Buddhika Madurapperuma, Environmental Science & Management, Humboldt State University, Faculty
Jessie Avitia, Environmental Science & Management, Humboldt State University, Undergraduate Student
Mahesh Abeynayaka, Building Economics, University of Moratuwa, Sri Lanka
Rameez.Rameezdeen, Division of Information Technology, Engineering and the Environment, School of Natural and Built Environments, City East Campus, Australia

College of Natural Resources & Sciences

This study will compare the Environmental Laws and their corresponding Environmental Impact Assessment processes in developing and developed nations with a focus on Sri Lanka and the United States. The study will involve analysis and comparison of individual EIA components (i.e. screening, scoping, impact analysis and mitigation measures), identification of the strengths and weaknesses of each component under different national laws, and how that influences the effectiveness of the laws as well as how those laws are implemented. This research will serve as a basis on which to make recommendations to improve EIA processes and strengthen environmental policies and implementation.

2. A Waste of Time: Courtly Entertainments, Adiaphora, and Economy of Time in Halle Pietism and in King Frederick William I's Prussia, c. 1713-1740.

Jeremy Schwebel, History, Undergraduate Student
Benjamin Marschke, History, Faculty

College of Arts, Humanities & Social Sciences

Most scholars, following the analysis of Max Weber, agree that the modern notions of using time wisely emerged in the eighteenth century. This economy of time came out of a cultural milieu that was strongly influenced by both the Enlightenment and ascetic religious movements (English Puritanism, German Pietism, French Jansenism). This project closely studies the discourse surrounding the courtly entertainments (hunting, the theater, gambling) as a way to better understanding the emergence of this economy of time. While both the early Enlightenment and ascetic religious groups argued that courtly entertainments were problematic, they did so for quite different reasons.

3. Agisoft PhotoScan an Archaeologists Swiss Knife: Three- Dimentional Reconstructions a Multi-Analysis and Preservation Tool

Walter A. Tovar Saldana, Anthropology, Undergraduate Student

College of Arts, Humanities & Social Sciences

The Agisoft project contains an extensive repertoire of images obtained through drones, and field photos of artifacts, buildings, and excavations of the Belize Archaeology Project. The project will serve and accomplish many objectives in the academic endeavors of the discipline of archaeology. The visual imagery gained from interacting with the photographs and correlating data is a hands-on feature of gaining knowledge and experience of the archaeological field of study. The project introduces a new technological devise and software program that is revolutionary in the field of archaeology.

4. Analytical comparisons of American-European High School Life Science Education Systems and Methodology to Increase effective teaching and Intercultural Competence

Juita Martinez, Education & Biology, Undergraduate Student
Juan Lupian, Education & Biology, Undergraduate Student
Anne O'Shea, Education & Biology, Undergraduate Student

College of Natural Resources & Sciences

In collaboration with HSU's P.E.E.R.S program and Lausanne, Swizterland's HEP school of education. Three HSU students collaborated with three Swiss students in order to create a lesson for high school aged students from scratch as well as teach the lesson in the United States and Switzerland. Our goal was to increase learning retention of the subject through research of effective methods and pedagogical strategies which we then utilize to regularly change and improve our lesson. Another goal included intercultural awareness and creating relevance for the students in a collaborative way with our peers that would translate into the individual classrooms in relation to the specific class.

5. Annual Day of Caring—Leadership and Service

Sophie Zinda, CRGS and the Center for Service Learning and Academic Internships, Undergraduate Student

College of Arts, Humanities & Social Sciences

Day of Caring provided me with an awesome opportunity to practice leadership in working for social change and serving the community around us. I was able to work to provide opportunities for a large number of students to give a Saturday in September to working in one of 16 different local organizations that are working hard to serve the Humboldt Community. Every year students provide wonderful feedback about their experience and it was one more opportunity to put what we learn about communities and service into action.

6. Aquaponics in the classroom, a students' perspective

Alicia Kee, Fisheries, Undergraduate Student
Cacy Slyvester, Fisheries, Undergraduate Student

College of Natural Resources & Sciences

Aquaponic systems are a combination of hydroponic gardening and a recirculating aquaculture system, which is a very efficient way to produce marketable products for growers. Humboldt State University's (HSU) aquaculture class had the opportunity to assemble an aquaponics system (Nelson and Pade, Inc.) for the first time. Our class was provided with the equipment that allowed us to demonstrate our abilities in constructing a fully functional aquaponics system. From the knowledge acquired in the academic setting, we were able to create a hands-on, tangible system. White Sturgeon were grown in the system along with a wide variety of vegetables with great success.

7. Artifact Analysis With Adobe Illustrator

Michael Padian, Anthropology, Undergraduate Student
Victor Carrillo, Anthropology, Undergraduate Student
Alex New, Anthropology, Undergraduate Student
Samantha Murphy, Anthropology, Undergraduate Student

College of Arts, Humanities & Social Sciences

Our project's goal is to utilize the Adobe Illustrator Program with artifact analysis. Using artifacts obtained from the Dos Hombres to Gran Cacao Archaeology project headed by Dr. Marisol Cortes Rincon. We will learn to use Adobe Illustrator to build digital images of the artifacts and create a database for them to be observed for present and future studies. We hope that our work will inspire continued use of this technique so others may be able to study artifacts in a digital and hard copy form so that artifacts can be better preserved and researched in multiple mediums and easily accessible to other scholars. This will allow for a stronger collaboration and interpretation.

8. Baker Cypress Seed Viability in Relation to Cone Age

Cooper Harris, Forestry, Resource Management and Protection, Undergraduate Student
Taylor Knott, Forestry, Resource Management and Protection, Undergraduate Student

College of Natural Resources & Sciences

Hesperocyparis bakeri, better known as Baker cypress, is a serotinous species which suffers from low seed viability. Previous research has shown that Baker cypress seed viability begins to decline with cone age and thus the low overall viability of Baker cypress cones is not unexpected (Milich et al., 2012). However, little is known about the cone age at which seed viability begins to decrease. We investigated seed viability in relation to cone age by sampling twenty branches from five Baker cypress trees located in Burney, Shasta County in north-eastern California. Seeds were scarified and placed in a 1% tetrazolium red solution for 18 hours, cut longitudinally to determine viability.

9. Capstone Workbook: Leaders, Leadership and Career Skills

Dr. Alison Holmes, Politics, Faculty

College of Arts, Humanities & Social Sciences

This project will build on the experience of the International Studies Capstone class by taking material used in previous courses and adding active learning exercises that will help students develop leadership and career skills. Each section within the workbook would be free-standing, enabling both students and, Faculty to use this as a resource outside the context of this specific course or major. The learning outcome of the workbook will be to encourage students to both reflect on, and create their own leadership approach and apply that to their post-university career plans. The overall goal of this project is the creation of an open source, practical classroom tool.

10. Characterization of Photosynthetic Productivity and Growth in A.Thaliana Mutants

Linh Pham, Biology, Undergraduate Student

College of Natural Resources & Sciences

This project studies photosynthetic phenotypes of six Arabidopsis Thaliana mutants under fluctuating light intensity and flat light intensity chambers. Photosynthetic and biomass results from this study have possible implications for these mutants' mechanisms of light energy quenching and heat release. Further investigations into these implications could identify genes that are responsible for high photosynthetic productivity in A. Thaliana, leading to their implementation in important plants for biofuel and crop production.

11. Choose to Reuse at Humboldt State University

Alec Howard, Wildlife, Undergraduate Student

College of Natural Resources & Sciences

The project is about plastic pollution in our oceans, the zero waste movement, and the new choose to reuse campaign on campus.

12. Chronic Cannabis Use in Emerging Adults: Relationships with Mental Health Factors

Tish Jett-Dias, Psychology, Graduate Student
Dr. William Reynolds, Psychology, Faculty
Kashia Axthelm, Psychology, Graduate Student

College of Professional Studies

The recent legalization of cannabis in multiple states, and the growth of cannabis use in recent years, underscores the importance of understanding the relationship between frequency of cannabis use and mental health outcomes. Risks for cannabis use and negative mental health outcomes (e.g., anxiety, depression) are highest in emerging adulthood, supporting the importance of examining cannabis use and mental health variables in this population. The current study examined differences in borderline personality disorder symptomatology, demoralization, burnout, loneliness, anxiety, and depression between groups of young adults: those who reported no/infrequent, moderate, or chronic cannabis use.

13. Comparison of Nitrogen Inventories in the Northern and Southern Sub-basins of Humboldt Bay, Northern California

Clara Bolster, Oceanography, Undergraduate Student

College of Natural Resources & Sciences

The nitrogen inventory of Humboldt Bay has not been quantified in the last 50 years. Our goal was to compare and contrast the nitrogen content of the surface, sediments, biomass, and water column between Arcata and South Bay. Not only was nitrate, nitrite, and ammonium in the water column and pore water tested, but many other factors including: CTD, biomass, grain size, chlorophyll-a, loss of ignition, CHN, and metals. We used past peer reviewed papers to determine differences between the two study areas, and coupled NOAA CeNCOOS and Wiyot data, with our own testing to get the best picture we could of Humboldt Bay. Testing spanned for three months in 2015: March, April, and May. Although our data does show some significant differences between the two sub-basins, for most of the bay there was no significant difference in nitrogen species concentrations.

14. Conflict and Agency in Honduran Agricultural Development

Timothy Ryan, Anthropology, Undergraduate Student

College of Arts, Humanities & Social Sciences

This presentation consists of a critical analysis of agricultural development in Honduras. The effects of neoliberal policies in particular will be examined and an in-depth examination of the current land conflict in the Aguíçn Valley will be used as an example. While there have been many criticisms of development practices in the country, recently in relation to oil palm plantations and World Bank lending, there have also been successes. Often these successes have resulted from militant action on the part of the rural poor. An analysis of agricultural development in Honduras will be presented and tentative conclusions regarding various development policies' effects reached.

15. Content Analysis of Sexualized Violence Across the California State University System

Torisha Stone, Sociology, Undergraduate Student

College of Arts, Humanities & Social Sciences

Content analysis of the sexual assault prevention programs and education provided at the 23 universities within the California State University system.

16. Creating a Gift for the Future: Digitization Utilizing Omeka.net

Victoria Bruner, Social Work, Undergraduate Student
Cathlyn Garibay, Anthropology, Undergraduate Student
KayCie Voigt, History, Undergraduate Student
Blanca Drapeau, History, Undergraduate Student
Allie Jones, Journalism and Geography, Undergraduate Student
Nikki Martensen, Anthropology, Graduate Student
K Bromley, Anthropology, Graduate Student

Library

The Library Scholar Internship team is digitizing historically significant objects from the library's Special Collections. This process involves more than scanning objects, but publishing to a broader research community using Omeka.net to create digital exhibits. In this poster we discuss our process creating metadata, scanning procedures, researching the collections and publicizing our work. Our goal is to encourage students and, Faculty to use the library's resources such as Collaboration Stations, SkillShops, librarians, computer labs, #mondopad and peers to improve and publish their research. The library is a dynamic space for students to work on innovative and collaborative projects.

17. Creating an Interactive Index Map Using Scanned Images: A Project for the Humboldt State University Library's Special Collections

Daniel Snow, Geography, Undergraduate Student

College of Arts, Humanities & Social Sciences

The Humboldt Room Special Collections at the Humboldt State University Library contains a large collection of delicate and vintage historical maps. Taking action to make searching the archive easier as well as to preserve the fragile status of historical maps has become a necessity. This can be accomplished by creating a "web-based digital map archive" and supplanting it with a Web Map component that allows users to search and download from the digital map archive. This poster introduces the concept of converting the map collection to a digital format, the methods used for developing an interactive web map, and the future status of the project.

18. Demonstration of Lead Binding for Bioremediation in Engineered RsaA S-Layer Proteins on C. vibrioides

Azariah Coblentz, Chemistry, Undergraduate Student
Chris DeAlba, Biology, Undergraduate Student
Elizabeth Bailey, Biology, Undergraduate Student
Wesley Jenkins, Biology, Faculty
Jenny A Cappuccio, Chemistry, Faculty

College of Natural Resources & Sciences

Heavy metal contamination of soils and waterways due to industrial processes, such as mining, continues to be a problem in the U.S., such as Flint Michigan. Microbial surface layers (S-layers) have shown promise for binding and sequestering heavy metals. Modifications to the S-later protein (RsaA), in C. vibrioides, could increase this efficiency. Our modified strains absorbed more lead per cell mass. Strains HCm 021, 027, 028 absorbed 197.78 Œ42.14, 231.32 Œ43.10, and 168.69 Œ422.65 (ppm Pb+2/g cells) versus 90.55 +/- 1.07 (ppm/g) for the wild-type. Future goals of this project include determining association constants of lead to cells, and construction of a bioremediation filter.

19. Development and Validation of the Academic Procrastination Scale

Alexandria Jaurique, Psychology, Graduate Student
Jacob Stadtfeld, Psychology

College of Professional Studies

Academic procrastination is the intentional delay of starting or continuing progress on school-related work. Academic procrastination often leads to negative outcomes such as submitting late assignments, cramming for exams, and test anxiety. To assess this we created a 21-item Academic Procrastination Scale (APS). The APS showed appropriate criterion ($r = .69$, $p < .000$), convergent ($r = .49$, $p < .000$), and discriminant ($r = .29$, $p = .001$) validity. The APS also showed good internal consistency with an alpha of .88 and a test-retest reliability of $r = .75$, $p = .000$. Validity and reliability analyses show that the APS is a valid and reliable measure of academic procrastination.

20. Duff accumulation around legacy sugar pines in the Russian Wilderness in northwest California

Angelo DiMario, Forestry, Undergraduate Student

College of Natural Resources & Sciences

Fire suppression over the 20th century has created dangerous conditions in many western forests. Removing fire as a natural disturbance has brought about increased fuel loading and extreme fire behavior in many areas. This study researched the accumulation of duff mounds (decomposed plant material) around legacy sugar pine (Pinus lambertiana) in the Russian Wilderness Area of the Klamath National Forest. Large amounts of fuel beneath trees poses the potential risk of tree mortality, even in a low intensity fire. By assessing the dimensions, volume, distribution and physical properties of duff mounds, we can better the variability of how and where duff mounds accumulate.

21. Early Intervention for Young Children in Improving Future Outcomes

Justene Skrentny, Child Development, Undergraduate Student

College of Professional Studies

The project is based on a review study being done to understand different types of early interventions (0-8 years) that are available to help young children and their families in improving the future outcomes of the children. In this paper, I define early intervention, present different areas and formats, list various programs available in Humboldt County, and make recommendations for parents and professionals who work with them.

22. Effect of Foot Orthoses on Energetics and Lower Limb Mechanics in Healthy Adults During Cycling

Jake Campbell, Kinesiology, Graduate Student

College of Professional Studies

The use of custom foot orthotics and wedging techniques has been recognized in the literature as a method to mechanically alter or improve joint function at the hip and knee. This study investigated the effect of foot orthoses on energetics and lower limb mechanics in healthy adults during cycling. We hypothesized that alterations to medial foot support will affect lower limb mechanics as well as metabolic values. Participants completed an individualized protocol that involved cycling in four foot orthoses conditions at three power intensities. The results of this study provide insights into the use of foot orthoses for; correcting mechanics, improving energetics and reducing injury.

23. Effects of Habitat on Mesocarnivore Activity in the Coastal Dunes of Northern California

Elizabeth Meisman, Wildlife, Undergraduate Student

College of Natural Resources & Sciences

The Ma-le'l coastal dunes of northern California have been affected by the invasion of dense European beachgrass. In response, USFWS and BLM have removed beachgrass in an attempt to restore native ecosystem function. Mesocarnivores play vital roles in trophic webs, and previous research has suggested that they are more active in restored dunes than in areas with dense beachgrass. However, distance to nearby coastal dune forests could affect mesocarnivore activity and may have confounded previous work. We conducted an observational study using remote cameras and found the detection rate mesocarnivores declined with distance to forest.

24. Etching Patterns of Pyroxene Crystals via Scanning Electron Microscopy Determine the Relative Age of Glacial Moraines in Mohawk Valley, northern Sierra Nevada, California

Christa Anhold, Geology, Undergraduate Student

College of Natural Resources & Sciences

Research was conducted in an effort to date the glacial moraines of this area using the degree of etching caused by weathering over time. It was determined that etching of hornblende grains can be used to quantify the age of glacial moraines. Samples were collected from five different glacial moraines from Frazier Falls in the Mohawk Valley of the northeastern Sierra Nevada Mountains. Fine sand samples were cleaned, sorted and analyzed, using soil science techniques. Thirty hornblende grains from each location were individually chosen and mounted for analysis. Backscatter electrons and secondary electrons in the scanning electron microscope were used to analyze the etching of the hornblende grains.

25. Eureka Consumer Price Index

Luis Ceballos, Economics, Undergraduate Student
Eric Diaz, Economics, Undergraduate Student
Connor Hoffman, Economics, Undergraduate Student

College of Professional Studies

Each year senior capstone students in the HSU Department of Economics provide an updated calculation of a consumer price index (CPI) for Eureka, CA, using Bureau of Economic Analysis methodology and extensive local price data collection. This year the project will also include extensive analysis of each CPI sector such as housing, food, and transportation.

26. Examining the Roles of Body-Esteem, Health-Efficacy, and Perfectionism on the Eating Patterns of Male and Female College Students

Joshua Paul Barnard, Psychology, Undergraduate Student

College of Arts, Humanities & Social Sciences

This research explored the roles of health-efficacy, body-esteem, and perfectionism on the eating patterns of male and female psychology major college students in Northern California, and found that college students with low body-esteem and high levels of perfectionism tended to have a higher risk for abnormal eating patterns.

27. Exoplanets: Using Photometry and Spectroscopy to Explore Alien Worlds

Charlotte Olsen, Physics & Astronomy, Undergraduate Student
Paola Rodriguez Hidalgo, Physics & Astronomy, Faculty
Christopher McIlraith, Physics & Astronomy, Undergraduate Student
Garrett Benson, Physics & Astronomy, Undergraduate Student
Kelsey Cross, Physics & Astronomy, Undergraduate Student
Troy Maloney, Physics & Astronomy, Undergraduate Student

College of Natural Resources & Sciences

Over the last 20 years, thousands of planets outside our solar system have been discovered orbiting other stars. The discovery of these extra-solar planets, or exoplanets as they are commonly known, has been made possible by the gathering of photometric and spectroscopic data of stars. We use public data from the Kepler and Hubble space telescopes to analyze photometric and spectroscopic data respectively on select objects of interest. Through analysis of this data, we are able to determine many properties of these exoplanets such as radius, density, temperature and atmospheric makeup. Our long term goal is to find ways to improve current atmospheric analysis methods.

28. Experience of Gender Nonconforming Students on HSU Campus

Lupe Madrid, Social Work, Undergraduate Student
Liza Olmedo, Sociology, Graduate Student
Corina Martinez, Social Work, Undergraduate Student
May Fournier, Sociology, Undergraduate Student
Tiffany Proa, Criminology, Undergraduate Student

College of Arts, Humanities & Social Sciences

As the campus population grows at Humboldt State University, so does the number of students who do not fit the male and female dichotomy. These folks who do not fit into this dichotomy are referred to as gender nonconforming. This is a small population on the HSU campus, and there is very little information on this particular group. In an effort to fill the gaps of what is unknown we propose to use three methods: a random survey of 900 HSU students, as well as semi-structures qualitative interviews, and a small number of oral histories from students who are gender nonconforming.

29. Exploring the role of JNK/cJun Signaling in Apoptosis in Lgl -/- Tumor Promoting Neuronal Progenitor Cells

Jacqueline Trzeciak, Biological Sciences, Undergraduate Student
Abigail Petersen, Biological Sciences, Undergraduate Student

College of Natural Resources & Sciences

High grade gliomas are aggressive brain cancers that arise from tumor promoting neuronal progenitor cells. The WD40 protein Lethal Giant Larvae (LGL) may suppress brain tumor formation. Mice without LGL develop brain tumors and have a high level of apoptosis, or programmed cell death, which is a key feature of many cancers. cJun is an oncogene involved in cell division, organismal development and regulation of apoptosis through its role as a transcription factor. Apoptosis is mediated downstream by intracellular proteolytic enzymes called caspases. We aim to measure caspase activity in cells with and without LGL protein through observation of its effects on cJun expression.

30. Following the Money: Capitalist in Communist China—A Bibliographical Project

Alexander Garcia, History, Undergraduate Student
Dr. Robert Cliver, History, Faculty

College of Arts, Humanities & Social Sciences

What happens when a planned economy is based on an unplanned economy? In this bibliographical project, we collected sources from all around the world relating to capitalist business and manufacturing in the first decades of the People's Republic of China. This project breaks new ground in historical studies of the early PRC by reexamining the relationship between the Communist Party-State and those capitalists who survived the transition to socialism. With over 500 entries, this is the largest collection of materials on capitalists and private enterprise in Communist China and will most certainly be an aid to any researcher, professional or in-training.

31. From Chaos to Collection: The Costco-Price Collection

Jacqueline Farrington, Geography & Anthropology, Undergraduate Student

College of Arts, Humanities & Social Sciences

The Costco-Price Collection is an assortment of historic artifacts excavated in 1994 from the current Costco site and former city dump in Eureka, California. A portion (619 artifacts) was kept as a teaching collection in the Archaeology Research Laboratory at Humboldt State University, and has been used to educate students and encourage interest in California archaeology. This presentation will showcase the rehabilitation of this collection from its original inherited state in 2013 to its current incarnation as a useful and coherent resource through the three-year timeline.

32. From the Post-Soviet to Eurasia: Regional Constructs a Quarter-Century after Independence

Matthew DerrickGeography, Faculty;
Merien Townsel, Geography, Undergraduate Student
Hyejin Jun, Geography, Undergraduate Student

College of Natural Resources & Sciences

This project, an overview of an in-progress edited book, interrogates Eurasia as a form of regional definition for the states that gained independence after the USSR's breakup, arguing for the continued relevance "post-Soviet" as a regional construct. The idea of the post-Soviet is positioned as a heuristic device to evaluate existing prior attempts at regional definition. Path-dependency as a concept suggests that preexisting institutions condition the institutional form that follows political transition; the condition of path-dependency remains relevant across the post-Soviet successor states.

33. Habitat Suitability and Selection of Northern Pacific Rattlesnakes at Multiple Spatial Scales

Lee Hecker, Biological Sciences, Graduate Student

College of Natural Resources & Sciences

An investigation into the distribution of suitable habitat for the northern Pacific rattlesnake at multiple spatial scales. Niche modeling techniques were used to determine where suitable habitat for this species actually exists within its known range. Additionally, I examined geological, thermal, and other differences in habitat characteristics between the rocky outcrops rattlesnakes use as hibernacula (i.e., dens) and unoccupied outcrops.

34. HiiMR Marijuana Dispensary Data

Christian Hower, Economics, Undergraduate Student
Morgan Alexander, Economics, Undergraduate Student

College of Professional Studies

Changes in dispensary density by county in California

35. History of Prior Concussion Has No Negative Effect on Neurocognitive Performance Following Competitive Seasons in Uninjured Collegiate Soccer Athletes

Aaron Sinnott, Kinesiology, Faculty

College of Professional Studies

Researchers have hypothesized a dose-response relationship between concussion history and decrements in neurocognitive function. However, dose-response evidence is uncertain among soccer athletes. Athletes from the HSU men's and women's soccer teams completed a computerized neurocognitive test before and after a soccer season. We observed no significant changes from preseason to postseason in ImPACT composite scores across any concussion group ($p>0.05$). Prior concussions did not result in immediate decreased neurocognitive function among collegiate soccer athletes. Participation in intercollegiate soccer for 1 or 2 competitive seasons does not negatively influence neurocognitive performance.

36. HSU Student Disability Awareness

Elmer Rodriguez, Sociology, Graduate Student
Randy Prejean, Sociology, Graduate, Student
Dung Pham, Criminology & Justices Studies, Undergraduate Student
Elizabeth Sturgis, Sociology, Undergraduate, Student
Erik Swishers, Sociology, Undergraduate, Student

College of Arts, Humanities & Social Sciences

This is an evaluation of the awareness of the existence of the Student Disability Resource Center (SDRC) on HSU Campus. The purpose of this study is to better understand campus awareness of student services such as the Student Disability Resource Center (SDRC). Though there are numerous resources on campus, our hypothesis is students are not fully aware of the Student Disability Resource Center on campus. Therefore, to better understand how students learn about the services our research question is: How can we improve campus wide awareness among the HSU community of the services of the Student Disability Resource Center (SDRC).

37. HSU's River Otter Citizen Science Project

Chelsea Stewart-Fusek, Wildlife, Undergraduate Student
Elizabeth Meisman, Wildlife, Undergraduate Student
Sheri Hart, Wildlife, Undergraduate Student
Jeffrey Black, Wildlife, Faculty

College of Natural Resources & Sciences

River otters are key indicators of the health of northern California's coasts, rivers and wetlands. We collect river otter sightings from the public in order to assess and monitor the health of our local river otter population, and therefore of our local ecosystem as a whole.

38. Humboldt Cares—Bringing Campus and Community Together for Change

Hannah Kelly, Sociology, Undergraduate Student

College of Arts, Humanities & Social Sciences

Serving in the community is a proven way for students to build a sense of belonging on campus and throughout the greater community while applying the things they are learning in their courses. As an intern in the Center for Service Learning and Academic Internships I have been able to put into practice the commitment to social justice and diversity from Sociology and the skills in Social Advocacy, Community Organizing, and service through nonprofit organizations through participation through training in activism at Berkeley, creating the Humboldt Cares Club, and recruiting volunteers for the needs of Humboldt County.

39. Humboldt County Women's Ethnographic Archive

Fabiola Sahagun, Anthropology, Undergraduate Student
Tim Ryan, Anthropology, Undergraduate Student

College of Arts, Humanities & Social Sciences

The goal of this project is to establish the Humboldt County Women's Ethnographic Archive through the Anthropology department at Humboldt State University. An ethnographic archive is a collection of materials that provide historical and contemporary information about a place, group of people, or institution. Archives provide a repository for unpublished and other unique materials that preserve cultural memory and supplement the historical record. Women's archives are particularly important as women's contributions have generally been underrepresented in historical collections. The HCWEA's mission will be to preserve the contributions and culture of Humboldt women from all walks of life.

40. Interactions of Mycorrhizae, Native Grasses and Quercus douglasii in California blue oak woodlands

Crystal S. Neuenschwander, Botany, Undergraduate Student

College of Natural Resources & Sciences

California's endemic Quercus douglasii (blue oak) is not regenerating throughout the state and although many hypotheses have been made, no conclusive evidence has been brought forward as to why. The goal of this study is to find evidence of a relationship, if any exists, between Q. douglasii, mycorrhizae and the native grasses that once dominated the landscape.

41. Island Biogeography: Invasive Species and Eradication Programs

Daniel Cooper, Geography, Undergraduate Student

College of Arts, Humanities & Social Sciences

For this project, a masters list of introduced mammals was provided. The masters list consisted of several different species of mammals who were classified by family, genus, species, and common names. Each species was accompanied by islands they were introduced too. Using the "Database of Island Invasive Species Eradication," each animal on the list was searched for to see if they were successfully eradicated. If these animals had been eradicated, then the date and method of eradication were recorded. If these species didn't show up on the database, then they were search for using various different search engines. If animals still remain of these islands the question becomes why?

42. Isolation and Initial characterization of antibiotic-producing bacteria from Northern California's Redwood Forest

Terilyn Stoflet, Biology, Undergraduate Student
Selene Castillo, Wildlife, Undergraduate Student

College of Natural Resources & Sciences

In order to fight the increasing antibiotic crisis, an experimental lab isolated bacteria from the Redwood Forest. From soil and air, 47 isolates were extracted from the Redwood Forest and tested for inhibition against the six deadly ESKAPE pathogens. We sequenced the 16s rRNA gene to identify the bacterial species. Isolates that had identical 16s rRNA genes inhibited different pathogens, possibly leading to the discovery of a novel antibiotic producing bacteria.

43. Kiss Me Kate, Costume Design

Alexander Stearns, Theatre Arts, Undergraduate Student

College of Arts, Humanities & Social Sciences

I was one of the costume designers for HSU's production of Kiss Me Kate, in charge of the costumes of the lead characters, Fred/Petruchio and Lilli/Kate. I'll be presenting Kate's final dress for the finale of the show. After researching many paintings, I designed a dress that harkened to the Renaissance time period. The dress was built by a team of costume technicians, including myself.

44. Levee Stories: Myths of Management

K Bromley, Applied Anthropology, Graduate Student

College of Arts, Humanities & Social Sciences

What is the cultural significance that the Redwood Creek Levee System carries in Orick, California? The purpose of this study is to further investigate the history and management of the levee system and to apply the findings. By tracking the levee's ethos using multiple research methods and publishing, the study hopes to better understand roles humans play with regard to the levee system and to each other. Through collaboration and greater understanding of the levee system research will be revealed in the Orick wikipedia page and within an Omeka exhibit site.

45. Life's Footprints

Rudolph Alexander Bielitz, Sociology, Graduate Student
Jacob Petroski , Sociology, Undergraduate Student

College of Arts, Humanities & Social Sciences

As college students progress through their academic career they begin to form an identity. Their identity then balances their intrapersonal, interpersonal, and cognitive abilities (Jones and Abes 2004). A college education has also been theorized to act as a protective factor from offending, or a factor that can promote desistance from crime (Hirschi 1969). Does the self-concept of college students influence their offending behavior? The purpose of this topic is to conduct a narrative study, to explore the life course development that college students have undergone before attending college, as well as what their current life course (life path) is, and their vision for post-college life.

46. Live, Love, Latch; An Ethnography of the Breastfeeding Community in Northern Humboldt County

Rowan McClelland-Bishop, Anthropology, Undergraduate Student

College of Arts, Humanities & Social Sciences

The biocultural approach to anthropology recognizes that one cannot fully discuss human biology without a discussion of human culture as well, and vice-versa. The socially complex topic of breastfeeding is a perfect example of the intersection between biology and culture; while breastfeeding is a biological process, it has been observed cross-culturally that the way it is practiced and if it is practiced at all, is highly dependent on the culture where the mother belongs. Through this ethnography, an anthropological investigation of the unique culture of Humboldt County will be undertaken to understand if and how a positive cultural atmosphere is created for local breastfeeding mothers.

47. Mapping Ancient Maya Lowlands

Aleck Tan, Anthropology/Archaeology, Undergraduate Student
Breana Esparza, Anthropology/Archaeology, Undergraduate Student
Marisol Cortes-Rincon PhD, Anthropology/Archaeology, Faculty

College of Arts, Humanities & Social Sciences

Aleck Tan and Breana Esparza will assist Dr. Marisol Cortes-Rincon in mapping the areas between Dos Hombres and Gran Cacao using GIS and remote sensing techniques. Aleck Tan has been using satellite imagery to analyze the vegetation in the area in order to identify the extent of the causeways by applying remote sensing techniques of calculating the Normalized Difference Vegetation Index (NDVI). Breana Esparza has been applying different methods of spatial analysis to create topographic contours of quarries and water features near the site N950. The information gathered would help create a better understanding of how ancient Mayan rural communities lived within their environments.

48. Mapping Marijuana Cultivation Sites and Water Storage in the Redwood Creek Watershed, Southern Humboldt County

Cristina Bauss, Geography, Undergraduate Student

College of Arts, Humanities & Social Sciences

Impending regulation of California's medical-marijuana industry demands a quantifiable understanding of the extent of cultivation on private lands long devoted to commercial-scale marijuana growing. This research aimed to quantify marijuana cultivation and water storage in the Redwood Creek watershed of southern Humboldt County, where critical changes have taken place since the advent of the back-to-the-land movement in the late 1960s. A GIS-based spatial analysis, following a visual search using Google Earth imagery, yielded 303 greenhouses, 100 outdoor cultivation scenes, 164 water tanks, and 51 installed ponds on assessor's parcels located within or partly within the watershed.

49. Maximization of Sustainable Values in Real Estate

Ryan Dale, Anthropology, Graduate Student

College of Arts, Humanities & Social Sciences

Using applied anthropology to create sustainable models for real estate values, and hopefully prevent another great recession. The next phase is to determine the cultural implications of these models and to see how our culture will react when homes lose value on paper but are worth the same in terms of wages to disposable income ratio.

50. Measurements of Sub-Milliradian Angles Using a Modified Michelson Interferometer

Benjamin Daly, Physics & Astronomy, Undergraduate Student

College of Natural Resources & Sciences

At Humboldt State University, a group of undergraduate students and, Faculty have been investigating the effects of gravity at very short distances. Due to the need to measure very small amounts of motion during these experiments, a separate group of students and, Faculty have been designing an optical system to measure very small rotational movement, down to the sub-milliradian scale. This system, a modified Michelson interferometer, utilizes the optical path length difference of two branches of a split laser beam to measure almost imperceptible rotations of a mirror by observing constructive and destructive interference of the two branches.

51. Millennials' Redefinition of "Career"

Magdalena Martinez, International Studies, Undergraduate Student
Alison Holmes, International Studies, Faculty
Loren Collins, Academic & Career Advising, Faculty

College of Arts, Humanities & Social Sciences

Today, as the Millennial Generation attend and complete college, enter the workforce and start their careers, research suggests that they are redefining the "traditional" values of individualism, entrepreneurship, and materialism that convey "success" in their chosen fields. The argument of this article is that the teaching of career preparation at the university level must also change. Therefore, this article will explore the question of how to teach "career" curriculum to a generation that arguably has very different values in the small, rural context of Humboldt State University.

52. Mindfulness: A physiological examination of mediation and alternate states of conciousness

Raleigh Tomlinson, Biology, Undergraduate Student

College of Natural Resources & Sciences

From Tibetan monks to college students in the U.S., meditation is a practice that has transcended cultural barriers and has been in existence for thousands of years. In addition to waking, dreaming, and non-dreaming, Davidson (1976) describes the practice of transcendental meditation (TM) as a fourth state of consciousness (as cited in Kanellakos & Lukas, 1974). This is due to the studies with brain wave lengths and EEGs that show what areas of the mind are being activated during meditation. My study will be a literature review of: the physiological changes during meditation, brain activity during meditation, and current clinical applications.

53. Nanodiscs Stabilize Anabaena Sensory Rhodopsin for Transcriptional Regulation Studies

Joshua Massey, Chemistry, Undergraduate Student

College of Natural Resources & Sciences

Anabaena Sensory Rhodopsin (ASR) is a retinal containing photoactive membrane protein from the cyanobacterium Anabaena. ASR is part of a protein complex which has been proposed, but never demonstrated, to control the transcription of the cpc-genes involved in chromatic adaption. We isolated and characterized ASR from engineered E. coli for construction of protein lipid nanodiscs. Our ASR nanodiscs were soluble and allow for protein access from the top and bottom of the bilayer. Our next steps will involve examination of the lipid environment and to investigate DNA binding. Results of these studies may allow for future use of these proteins as photo-active transcriptional regulators.

54. Natural Influences from Inside and Outside of the Classroom

Amanda Henman, Child Development, Undergraduate Student

College of Arts, Humanities & Social Sciences

The research project has been developed to investigate what the relationship is between early education students, teachers, living plants inside and outside the classroom, and the environment outside the windows. The research project surveys 32 center-based programs among rural and urban early education programs to produce quantitative and qualitative data for a research project that will support a blog site. The blog site will include curriculum plans, activities and images supporting incorporation of plants in children's environments and children's interactions with natural materials and playscapes.

55. Network Analysis of Individuals and Organizations Involved in Food Issues at Humboldt State University and Surrounding Communities (Phase 1)

Anna Malia G. Barker, Department of Communication, Undergraduate Student
Michael S. Bruner, Department of Communication, Faculty

College of Arts, Humanities & Social Sciences

This applied research project is one attempt to contribute to the building and strengthening of partnerships among those involved with food issues at Humboldt State University and surrounding communities. While we report some information, we also seek to advocate for even more collaboration among local stakeholders.

56. Novel Tests of Gravity Below Fifty Microns

Gabriela Martinez, Physics & Astronomy, Undergraduate Student
Jeremy Johnson, Physics & Astronomy, Undergraduate Student
Ian Guerrero, Physics & Astronomy, Undergraduate Student

College of Natural Resources & Sciences

Due to inconsistencies between General Relativity and the Standard Model, tests of gravity remain at the forefront of experimental physics. At Humboldt State University, undergraduates and, Faculty are designing an experiment sensitive enough to detect gravitational interactions below the 50 micron scale. The experiment measures the twist of a torsion pendulum as an attractor mass is oscillated nearby in a parallel plate configuration, providing time varying gravitational torque on the pendulum. The size and distance dependence of the torque variation will provide a means to determine any deviation from current models of gravity on untested scales.

57. On the effects of climate-induced forest disturbances on spider assemblages in Michigan

Yuliana Rowe, Wildlife, Undergraduate Student

College of Natural Resources & Sciences

Climatic changes affect the intensity and frequency of forest disturbances (e.g. fire, droughts, and insect outbreaks). During the summer of 2016, we used an experimental forest at the University of Michigan Biological Station (UMBS) to observe spider responses to a simulated insect outbreak. We collected spiders from plots with different disturbance severities via pitfall traps and identified them to the lowest taxonomic level possible in order to compare Shannon-Weiner diversity indices. Our hypothesis that spider diversity would be lower in more disturbed plots was supported. Leaf area index, potential prey abundances, and down woody debris were also found to affect spider assemblages.

58. Open Textbooks in Higher Education

Wendy Brown, Sociology, Graduate Student

College of Arts, Humanities & Social Sciences

With this presentation, I explore the costs associated with higher education and how those costs may impact access. I explore the implementation of open textbooks as having the potential to bridge gaps between low and high-income students by making college less expensive and more accessible to students from all income levels. I will show prior research and stats on student approval and success with open textbooks, discuss how little research there is on instructors assessments of them, and show my survey findings from a survey I conducted on instructors at Ocean View University.

59. Optimizing Resistance During Multiple-Set Weight Training to Increase Training Volume for Rural Firefighters

Anna Welch, Kinesiology, Graduate Student
Young Sub Kwon, Kinesiology, Faculty
Gil Spitz, Kinesiology, Graduate Student
Christine Baldwin, Kinesiology, Undergraduate Student

College of Professional Studies

We hypothesized that a greater training volume would be produced using a training protocol where resistance is decreased with each set (DR) compared to a constant resistance (CR) protocol. In order to develop DRs, we used the subject's fatigue ratio (using an individualized regression equation) from a CR training protocol where the number of repetitions declines with each set. 20 active-duty male firefighters (meanŒ4SD, age = 32Œ4 7yr, height = 180Œ45 cm, body mass = 96Œ416 kg, fire service = 9Œ47 yr) completed 4 sets at 65% of their 1RM CR and DR bench press, lat pulldown, and leg press exercises to failure with 30 second rest intervals.

60. Physical Fitness Characteristics of Rural Firefighters on the Northern Coast of California

Gil Spitz, Kinesiology, Graduate Student
Dr. Young Sub Kwon, Kinesiology, Faculty
Anna Welch, Kinesiology, Graduate Student
Timothe Conklin, Kinesiology, Undergraduate Student
Christine Baldwin, Kinesiology, Undergraduate Student

College of Professional Studies

PURPOSE: The purpose of this study was to examine the health-related physical fitness status of rural firefighters.

CONCLUSIONS: Exercise programs for firefighters should focus on improving flexibility and body composition, while maintaining muscular strength and aerobic fitness to meet the demands of firefighting.

61. Preservation of Diatoms Around the January 26, 1700 Earthquake Event, using Core Sample MD.14.03B collected at McDaniel Slough, North Humboldt Bay, Arcata

Gwynn Neilson, Geology, Undergraduate Student

College of Natural Resources & Sciences

Core MD1403B contains a salt marsh soil layer between mudflat material, which was caused by subsidence produced by the 1700 earthquake. Three samples were taken from the core to look at the preservation of the diatoms from each sample and compared to one another to determine if the 1700 earthquake caused a large enough subsidence to produce high velocity water to flow into the area. The samples were examined at using the secondary electron(SE) feature of Scanning Electron Microscope (SEM). Increased occurrence of damaged cells supports the conclusion that there was a fluctuation in water levels that produced a high velocity flow of water.

62. Queers in the Pre-Stonewall Media Project

Alanna Lapp, Criminology & Social Justice, Undergraduate Student
Meredith Williams PhD, Sociology, Faculty

College of Arts, Humanities & Social Sciences

The Stonewall Riots in June of 1969 started the modern lesbian, gay, bisexual, transgender and queer (LGBTQ) rights movement in the United States. It took four more years for homosexuality to be removed from the Diagnosis and Statistical Manual (DSM). This study looks at the 20 years before the Stonewall Riots, exploring how LGBTQ people were discussed in the media. Using content analysis on articles from the Los Angeles Times (1950-1969), we explore the evolution of language used to describe members of the LGBTQ communities, through the McCarthy era (1950-1956), the decriminalization of homosexuality in the UK in 1967, and social movements, like the riots in the summer of 1969.

63. Reality's Edge "An untold story about the forefathers of documentary"

Tobias Worrall, Film, Undergraduate Student

College of Arts, Humanities & Social Sciences

Reality's Edge is a documentary film about Robert and Francis Flaherty (Nanook of the North) and their dramatic struggles with friend and nemesis John Grierson (who established the BBC). Their opposition with Grierson established the parameters and practice of all documentary filmmakers that followed. This film is a glimpse of the remarkable early days of cinema that examines how the Flaherty's timeless films were produced. And this is the first film to credit and appreciate Francis Flaherty as a key collaborator with Robert (who has historically been the only recognized member of their team). In layman's terms, Reality's Edge is the "big bang"of ethnographic documentary filmmaking.

64. Rebekah Lodge Historical Collection

Jennifer Machado, Anthropology, Undergraduate Student
Aleksandr Ostrovskiy, Anthropology, Undergraduate Student

College of Arts, Humanities & Social Sciences

The goal of this project is to establish an ethnographic archive that documents Humboldt County women's stories and experiences. This archive will contain both historical and contemporary material and be devoted to making the stories, struggles, and achievements of women in Humboldt County known. The Rebekah's Lodge was a Independent Order Of the Oddfellows, whose main goal was to serve the community around Humboldt County through their services and volunteer work.

65. Reintegration in Humboldt County

Vanessa Pike-Vrtiak, Sociology, Graduate Student
Hanna Baus, Sociology, Graduate Student
Fidel Castro, Criminology & Justice Studies, Undergraduate Student
Haley Hannan, Sociology, Undergraduate Student
Jonah Platt, Sociology, Undergraduate Student

College of Arts, Humanities & Social Sciences

Evidence suggests a lack of reintegration services in rural Humboldt County. In an effort to understand the disconnect between the clients and the services, we will conduct focus groups and interviews with current inmates at Humboldt County Correctional Facility, service providers and ex-offenders. We aim to promote communication between both parties that will ease the process of reentry and inhibit recidivism through empowerment and access to necessary resources. This research will serve as a guide in the planning and development of the new rehabilitation center. We will also create an easily accessible resource guide and certificates of achievement for those reentering the community.

66. Reliability and Validity of a Self-Rating Scale for Fear of Social Rejection

Gabriela Leon, Psychology, Undergraduate Student
Brandon McLaughlin, Psychology

College of Professional Studies

The present study was conducted to develop a measure that indicates a fear of social rejection among students. Participants were 116 college students receiving credit in their psychology classes. Reliability was established through test retest and internal consistency. Validity used criterion, convergent, and discriminant validity: Rejection Sensitivity Questionnaire, Social Phobia Inventory, and Yale Food Addiction Scale. Internal consistency and test retest were significantly high.

67. Reliability and Validity of the Attitudes Towards Environmental Activism Scale

Kelsey Young, Psychology, Undergraduate Student
Irene Gonzalez, Psychology, Undergraduate Student

College of Professional Studies

In this study environmental activism attitudes were defined as the positive view of pro-environmental behaviors as mediated by egoistic, social, and biospheric motivators. This investigation reports on the development of the Attitudes Towards Environmental Activism Scale (ATEAS), a 26-item measure of attitudes towards environmental activism. In this sample the internal consistency reliability of the ATEAS was r = .92, with one-week test-retest reliability of r = .90 in a retest sample of 15 students. Participant differences were found in the results. The ATEAS scale can be used to provide a basis for research in future environmental education.

68. Reliability and Validity of the Health-Efficacy Scale for College Students

Joshua Paul Barnard, Psychology, Undergraduate Student

College of Arts, Humanities & Social Sciences

The Health-Efficacy Scale for College Students (HESCS) assesses an individual's belief in their capacity to change their own health. This investigation examined the psychometric properties of the HESCS by examining reliability and validity with a sample of psychology major students at a small University in northern California. Reliability was examined by utilizing internal consistency with a Cronbach's alpha, r'4=.82, and a test-retest separated by one-week on a subsample of 20 participants, rtt=.77. HESCS was shown to have convergent validity, R2=.32, F(2,98)=23.13, p

69. Sammich and Rumples Pilot Preview

Kylie Mosbacher, Environmental Studies, Undergraduate Student

College of Arts, Humanities & Social Sciences

I received the Undergraduate Research and Creative Award in Fall of 2015, and as per the requirements of the grant I am to present my work at IdeaFest this coming April. It is a children's story nearing the end of its production, and will mostly be a stationary display or booth where I'll gladly do Q&A about the process, where I'd like to see it go, and so forth.

70. Search for possible trends between quasar outflows and radio properties

Sean Haas, Physics, Undergraduate Student
Brandon Dolfi, Physics, Undergraduate Student
Chrystal Johnson, Mathematics, Undergraduate Student
Carla Quintero, Physics, Undergraduate Student
Paola Rodriguez Hidalgo, Physics, Faculty

College of Natural Resources & Sciences

Quasars are supermassive black holes that, through accretion, emit large amounts of radiation and eject large amounts of matter. Spectral emissions from quasars have proven to be highly variable, that is, quasar spectra change dramatically over time. The physical mechanism behind this variability in the accretion disk is not yet completely understood. High velocity outflows of matter have been observed in many quasars and could serve as a mechanism for changing the radiating matter in the accretion disk around the black hole, thus changing the quasar's spectra. Our team has analyzed quasar spectra to search for possible trends between radio properties and outflows.

71. Sedimentation Risk Assessment in the Lagoa Feia Lake Basin in Brazil using Satellite and Geospatial Data

Ualas Barreto Rohrer, Environmental Science & Management, Undergraduate Student
Buddhika Madurapperuma, Environmental Science & Management, Faculty

College of Natural Resources & Sciences

Lagoa Feia Lake Basin is located in Rio de Janeiro, Brazil, which historically experienced sedimentation impacts due to channel ditching to manage water resources for agricultural practices. This study models the significance of sedimentation in the lake basin intergraded with land-use, soil types, and DEM data using Remote Sensing and GIS techniques. The erosion model was built using the above input variables by applying weighted overlay methods, and the vulnerable areas were mapped. Landsat 8 images were utilized for remote sensing analysis, such as image enhancement indices to detect sedimentation changes over time. The results of the study are useful to implement best management practices

72. Settler Colonialism in Humboldt

Alexandria Jones, Geography, Undergraduate Student

College of Arts, Humanities & Social Sciences

This presentation addresses the role of Fort Humboldt in settler colonialism in Humboldt County as well as fits Fort Humboldt into a larger analysis of settler colonial conflicts.

73. Silicon Photomultiplier Characterization

Leonel Munoz, Physics, Undergraduate Student

College of Natural Resources & Sciences

Silicon Photo Multiples (SiPM's) are relatively new photon detectors. They offer many advantages compared to photo multiplier tubes (PMT's) such as insensitivity to magnetic field, robustness at varying lighting levels, and low cost. The SiPM output wave forms are poorly understood. The experiment conducted collected waveforms of responses of Hamamatsu SiPM to incident laser pulse at varying temperatures and bias voltages. Ambient noise was characterized at all temperatures and bias voltages by averaging the waveforms. Pulse shape of the SiPM response was determined under different operating conditions

74. Slackin' Hard, Hardly Slackin'

Sarah Jaglin, Anthropology, Undergraduate Student

College of Arts, Humanities & Social Sciences

I have conducted a broad range of research examining the recreational sport of slacklining and its participants known as "slackers." Although the solo action of slacking is entirely individual, the activity as a whole couldn't be farther from it. As this began as an insight into the slackers' personal intentions during participation, my research has expanded to encompass the inner workings of the Humboldt slack community as a whole, illuminating the bond members share with one another. Binding this community is a social adhesive comprised of shared linguistics, communication networks, hierarchical dynamics, artifact exchanges, community events, and ritual practices.

75. Sociology Students of Higher Education

Zachary Kihm, Sociology, Undergraduate Student
Mary Virnoche, Sociology, Faculty

College of Arts, Humanities & Social Sciences

I'm conducting research for Mary Virnoche. The research has mostly been reviewing qualitative literature on peer mentoring, mentoring, retention rates, and approaches institutions of higher education take in order to have high retention rates among Sociology majors. The focus of the study is directly on Sociology but the literature reviewed is expansive. This project will show the audience the problem(s) with low retention rates of SOC majors and will have the key findings in my review. The research project is still taking place so I'll have plenty of data and analysis of Mary's literature and research. I may add key findings that have helped with my existing research on higher education.

76. Soils and Climate Change

Tess McDermott Swanson, Environmental Science, Undergraduate Student

College of Natural Resources & Sciences

The pedosphere is an often overlooked resource already affected by and contributing to climate change. For example, soil stores a certain amount of carbon, and biological processes in soil emit the powerful greenhouse gas nitrous oxide (N2O). The amount of nutrients, microorganisms, and moisture that soils hold are all affected by atmospheric CO2 levels and surface temperatures. Soils are an extremely important part of the earth's biosphere, and they can be managed more effectively to mitigate their effects to the climate and the changing climate's effects on them. I will explore these impacts and relate them to primary productivity, food security, human health, and land desertification.

77. Student Perceptions of Diversity in University Curriculum: Informing Course Design

Irene Gonzalez, Psychology, Undergraduate Student
Mariah Martinez, Psychology, Undergraduate Student
Zachary Ottey, Psychology, Undergraduate Student
Carrie Aigner, Psychology, Faculty

College of Professional Studies

When aspects of culture and diversity are integrated into courses, students can benefit in many ways including enhanced critical thinking and greater social agency, or one's belief in the importance of working to correct social injustice. Despite these benefits, few instructors report that they integrate diversity-related content into their course curriculum, with many citing lack of knowledge for how to do this as a primary barrier. The purpose of this study is to assess student perceptions of diversity in the curriculum using both quantitative and qualitative methodology, with the broader goal of informing future curriculum design.

78. Studying the Connection Between X-Ray and UV Absorption in AGN Outflows

Zane Comden, Physics & Astronomy, Undergraduate Student
Cm April, Physics & Astronomy, Undergraduate Student
Michael Gibbons, Physics & Astronomy, Undergraduate Student
Paola Rodriguez-Hidalgo, Physics & Astronomy, Faculty

College of Natural Resources & Sciences

Active Galactic Nuclei are still somewhat of an enigma; young, bright galaxies with a large range of redshifts. Our current research is focused on gas outflows from the active galactic nucleus (AGN). These outflows are identified by broad absorption lines in the spectra of AGN. Current multi-epoch observations of many active galactic nuclei (AGN) have resulted in broad absorption lines that appear and disappear over time. Current observations show that these outflows have speeds up to 0.2c. Our team's ultimate goal is to understand the mechanism that drives quasar outflows and characterize the broad spectral absorption lines, as well as why the outflows are variable.

79. Synthesis of Bis(diaryl)thienothiadiazole Compounds with Pyridyl and Pyrimidyl Groups For Use in Organic Photovoltaic Cells

Gregory Pitch, Chemistry/ Environmental Science, Undergraduate Student
Kiefer Bell-Wilson, Chemistry, Undergraduate Student
Micah Ojeda, Chemistry, Undergraduate Student

College of Natural Resources & Sciences

An organic photovoltaic (OPV) is a polymeric or small molecule device that accepts photons and generates a current. Donor-acceptor molecules are used to create a heterojunction where an electronic environment dissociates excitons, which are bound excited electron-hole pairs. Charge dissociation is facilitated at the heterojunction by the interaction of an exciton on the donor molecule with the electronic configuration of the acceptor molecule. Thiophene derivatives have proven to be promising candidates for high efficiency donor molecules. Rational design and attempted synthesis of bis(diaryl)-thienothiadiazole compounds with pyridyl and pyrimidyl groups are reported.

80. The Effect of Posture on Running Economy, Kinematics, and Muscle Activation

Nina Margaretha Carson, Kinesiology & Recreation Administration, Graduate Student

College of Professional Studies

This study investigated the effect of postural alterations (degree of forward lean and strategy) on running economy (energy consumed), kinematics (joint motion), and muscle activation during running. We found that running with a large lean resulted in a decrease in running economy and increased hip flexion such that the body increases its reliance on the less efficient gluteus maximus muscle. Furthermore, leaning forward increased gluteus maximus activation during stance phase, particularly when accepting body weight in landing. These findings suggests that running with an upright posture or more moderate forward lean, may be more energetically optimal.

81. The Feminist Pedestal: Ronda Rousey and the Representation of Female Athletes

Karissa Valine, Communication, Undergraduate Student
Michael S. Bruner, Communication, Faculty

College of Arts, Humanities & Social Sciences

This article will explore the feminist self-identification of female athletes in addition to critiquing the harms and benefits of placing female athletes on a "feminist pedestal." Ronda Rousey, a well-known athlete in mixed martial arts, will serve as a case study in the analysis.

82. The Functional Role of Identification in Self- and Group-Identity Uncertainty

Desiree Ryan, Psychology, Graduate Student
Alexandria Jaurique, Psychology, Graduate Student
Samantha Woods, Psychology, Undergraduate Student
Lily Syfers, Psychology, Undergraduate Student
Amber Gaffney, Psychology, Faculty

College of Professional Studies

We looked at the relationship between self-conceptual uncertainty and group identity-uncertainty. Study 1 provides evidence that group identity-uncertainty produces self-uncertainty, even when people have the opportunity to identify with relevant groups. Study 2 shows that group-identity uncertainty motivates disidentification from a group relevant to their uncertainty. These findings highlight the complexity of the self-concept, suggesting that group-identity uncertainty produces self-uncertainty as well as disidentificaiton with sub-groups related to the uncertain identity.

83. The Homeless Students of Color of Humboldt State University

Alicia Araceli Flores Carrillo, Anthropology/Film, Undergraduate Student

College of Arts, Humanities & Social Sciences

In the Fall semester of 2015, Humboldt State University experienced an increase in enrollment unlike any in its history; HSU recruited a total 1,429 incoming freshmen, which joined the already-enrolled student body of 7,370. Of that population, 31% was Hispanic-identified, and 31.3% of that population was from Los Angeles alone. Competitive housing on and off campus left many students in housing insecurity; some endured homelessness for a majority of the semester. This ethnographic research spans the Fall 2015 semester as an attempt to analyze the multi-faceted issue of student homelessness. The increase in enrollment provides an opportunity for analysis in our very racialized present.

84. Soil Analysis Concerning Ancient Civilizations

Timothy Ortega, Anthropology, Undergraduate Student

College of Arts, Humanities & Social Sciences

Human activities leave an impact on everything, including deep in the soil. This soil then can be tested thousands of years later to help determine what activities occurred at the site for a culture that may have been lost, is barely known about, or left no evidence other than their footprint in the dirt. I will relate my experience as an intern in the Archaeology Lab on campus to this project, which also concerns soil analysis from someone else's project.

85. The JNK/c-Jun Pathway Regulates Potency and OCT4 Expression in Murine Embryonic Stem Cells

Lauren Dahl, Biological Sciences, Undergraduate Student

College of Natural Resources & Sciences

This study examines a role for the JNK/c-Jun pathway in stem cell potency, differentiation, and Oct4 expression. Oct4 is a transcription factor known to regulate genes involved in embryonic stem cell (ESC) self-renewal, pluripotency, and differentiation. cJun is a protein that regulates genes responsible for cell proliferation, differentiation and apoptosis. Its transcriptional activity is regulated in part by its activator, JUN amino-terminal kinase (JNK). In this study we modulated JNK/cJun signaling in murine embryonic stem cells through both chemical modulation of the JNK pathway and transient transfection of vectors expressing GFP cJUN, GFP L40/42A, GFP cJun R54A or GFP alone.

86. The Morris Graves Collection at the Morris Graves Museum of Art

Steven Carvente, Art, Undergraduate Student

College of Arts, Humanities & Social Sciences

This project will see the creation of an exhibition revolving around the artist Morris Graves. The project involves research of the archives at the Morris Graves Museum of art and analysis of the condition of the works in storage. An analysis of the content and readiness for display of the collection is being done in order to plan out the format for the exhibition. The personal art collection of Morris Graves is at the Morris Graves Museum of Art yet no comprehensive exhibition displaying the works in that collection has been put on. This project aims to bring attention to the importance of the artist Morris Graves during the 1950's contemporary art scene.

87. The NCAA-DOD Grand Alliance Concussion Assessment, Research, and Education (CARE) Consortium on Longitudinal Clinical Study Core

Katlyn Mannatt, Kinesiology & Recreation Administration, Faculty
Aaron Sinnott, Kinesiology & Recreation Administration, Faculty
Beth Larson, Kinesiology & Recreation Administration, Faculty
Jake Campbell, Kinesiology & Recreation Administration, Graduate Student
Monica Ortiz, Kinesiology & Recreation Administration, Graduate Student
Patrick Stafford, Kinesiology & Recreation Administration, Undergraduate Student
Katharine Earle, Kinesiology & Recreation Administration, Undergraduate Student
Tatiana Verdugo, Kinesiology & Recreation Administration, Undergraduate Student
Justus Ortega, Kinesiology & Recreation Administration, Faculty

College of Professional Studies

With support from the NCAA and U.S. Department of Defense, the North Coast Concussion Program (NCCP) has embarked on a groundbreaking two-year study of the history and impact of concussions among NCAA athletes. This multi-institution study is aimed at understanding the neurobiological and psychosocial nature of concussive injury and recovery for the purpose of enhancing the safety and health of collegiate student-athletes, service members, youth sports athletes and the broader public. At Humboldt State, Faculty and students of the NCCP work together to conduct baseline and post injury monitoring of neurocognitive, motor control, and behavioral data in about 450 athletes from all sports.

88. The Role of Lgl1 in Tumor Forming Properties of Mouse Neural/Progenitor cells

Hannah Y. Collins, Biological Science, Undergraduate Student

College of Natural Resources & Sciences

In the Sprowles lab we are interested in understanding the cellular mechanisms involved in development and disease. One of the main projects in our lab is understanding the stem cell origin of glioblastoma, an aggressive and highly malignant form of brain cancer. We are investigating the role of Lethal Giant Larvae homolog 1 (Lgl1), a cell polarity protein and its role in tumor initiation and maintenance. Through the use of transgenic Lgl1 knockout mice we have isolated and propagated neural stem/progenitor cells from different region of the adult mouse brain and are investigating the functional consequences of Lgl1 deletion on signaling pathways often see to be dysregulated in cancer.

89. The struggle for a K -21 Education

Marisol Ruiz, Education, Faculty

College of Professional Studies

The demographics of K-12 public schools in CA have changed dramatically since the 1980s today students of color make up 75% of the student body. Since 1980 the number of White students in the CSU has gone from 70% to just 26.5% in 2015. Ever since the 1980s we have seen a divestment in K-12 and in the CSU. This research will not only describe the crisis in k-12 and higher education schooling but also create the changes needed for a sustainable future. This qualitative study proposes a paradigm shift of INVESTMENT- social justice, multilingualism, learner centered, nepantla, ethnic studies, African Indigenous knowledge, and sentipensante pedagogy in order for all our students to succeed.

90. The Paleo Diet in the United States: Why, How, and What Now?

May Patiño, Anthropology, Graduate Student

College of Arts, Humanities & Social Sciences

As part of a Masters thesis, this study explored how individuals are defining, interpreting, and practicing the Paleo diet in the United States and any associated health outcomes. Qualitative and quantitative research methods were used. Ethnographic methods included interviews and media analysis. A national survey was also conducted. This study found that specific practices of this diet varied by individual. Most common practices included frequent vegetable consumption, and avoidance of grains and processed foods. Increased energy and muscle tone, and decreased weight and frequency of illness were the most frequently reported health outcomes from these practices.

91. This Is All Simlish To Me: An Ethnographic Analysis of The Sims, A Virtual Life Simulation Video Game

Jennifer Machado, Anthropology, Undergraduate Student

College of Arts, Humanities & Social Sciences

The scope of my research was to understand why Simmers created Sims and for what purpose. Ethnographic research took place over the course of 16 weeks on the Sims 3 and 4, forum sites, and YouTube videos. Through fieldnotes, participant observation, transcribed interviews, and surveys I was able to find three key evolving patterns, which was time investment, community building in game-play and participation in challenges and story-writing. Research findings reveal that the Simmers game-play is not only to pass time, but to achieve a goal that they have set for themselves which, allows them to connect with other Simmers, and creates a community based on shared interests.

92. Tough Girls: Exploring Nonverbal Behaviors of Females at Rock Shows

Brittany Gautier, Child Development/Communication, Undergraduate Student

College of Professional Studies

Because females have historically been socially and physically discouraged from participating in such events. It is important to examine effective nonverbal behaviors which promote gender inclusion in this setting. Utilizing a literature review and observation of the behaviors of females who attend rock music performances, this project describes community efforts to provide safety for female audience members through nonverbal communication and observations support the perceived female inhibition to participate equally to males in such an environment.

93. Toward an Intersectional Criminology

Meredith Williams, Sociology, Faculty
Joice Chang, Politics, Faculty
Lupe Tinoco Oliveros, Sociology, Undergraduate Student
Liza Olmedo, Sociology, Graduate Student

College of Arts, Humanities & Social Sciences

Studying race, class, gender and age are considered crucial for understanding social inequality and offending, but criminology has yet to fully explore sexuality. In this study, we provide a baseline examination of sexuality and offending in the U.S. for several life course stages. We find that the effect of being a sexual minority on the likelihood of offending is often larger than or comparable to the significant effects of race and gender; this varies over the life course and across behaviors. We demonstrate that sexual orientation is another crucial attribute for understanding social inequality and offending, and join the call for a more intersectional approach to the study of offending.

94. Undergraduate Literary Journals in the U.S.

Janelle Adsit, English, Faculty
Anthony McGough, English, Undergraduate Student
Bri Lucero, English, Undergraduate Student
Angela Compton, English, Undergraduate Student

College of Arts, Humanities & Social Sciences

Our project reviews teaching practices associated with undergraduate literary journal editing in other colleges and universities. We translate our findings by recommending new projects and directions for *Toyon: Multilingual Journal of Literature and Art,* based on examples of what other campuses are doing. This project contributes to Humboldt State University's focus on undergraduate publishing and hands-on learning experiences to prepare students for professions in editing, design, production, and writing for audiences beyond the university.

95. Volunteer Opportunities Program—Hands-on Experience

Jessica Garcia, Journalism, Y.E.S., and Center for Service Learning and Academic Internships, Undergraduate Student

College of Arts, Humanities & Social Sciences

Community Organizing, Event Planning, and Recruiting are things I've been able to learn and experience through the Y.E.S. House and CSLAI's Volunteer Opportunity Program. We planned 5 service events in the community this year with organizations like the Jacoby Creek Land Trust, a Seed Fair, Party for the Planet with the Sequoia Park Zoo, and Scrap Humboldt. Our team got firsthand experience in setting up opportunities and leading students to bring their passion to the community and make a difference. These opportunities have enhanced what I have been learning and are preparing me for a future of service and leadership.

96. Wasting Disease Effects on Pisaster Ochraceus Prey Populations

Aria Armendariz Peavy, Biology, Undergraduate Student

College of Natural Resources & Sciences

The presence of Sea Star Wasting Disease (SSWD) has caused fluctuations in the abundance of sea stars in the intertidal. Pisaster ochraceus is a keystone predator of the intertidal (Bates, et al., 2009) and has an increased potential to alter the food web now that SSWD has manifested itself within the population. It is a consumer of several species of chiton, snails, and limpets (Paine, et al.,1980) found in our coast's intertidal communities. Due to the fluctuation in populations of the Pisaster ochraceus, fluctuations of predation should occur as well. Like most predator prey population models predator population size should inversely affect prey population size.

97. Wellness and Sustainability Handbook for Traumatic Brain Injury (TBI): A Holistic Approach to Best Practices for TBI Recovery

Chelsey Chadwell, Social Work, Graduate Student

College of Professional Studies

The purpose of this project is to design a wellness handbook with tools and resources that assist persons with TBI to reduce stress and increase personal wellness.The wellness handbook provides tools for clients who use Making Headway Center services. The Making Headway Center offers specialized programs to people who have brain injuries.The handbook will focus on wellness strategies such as what is wellness, eating healthy, staying active, healthcare, stress reduction and relaxation techniques. After the handbook is revised based on the evaluations, handbooks will be printed and I will hold an orientation to the handbook for Making Headway Center staff and clients.

98. Within the Inundation Zone: Spatial Analysis of Cultural Resources Vulnerable to Sea Level Rise and Tsunami Impacts in Humboldt Bay, Northern California

Thomas Julian Ross, Anthropology, Undergraduate Student

College of Arts, Humanities & Social Sciences

The threat of sea level rise and tsunamis make the future of the Humboldt Bay in Northern California an uncertain situation. Modifications to the landscape of the bay have made many cultural resources more vulnerable to climate change and hazard events, based on their location, due to crumbling infrastructure that is likely to fail in holding back the tide. Protection of these resources can be expanded once an inventory of vulnerable resources is collected. Data has been collected from projections of future coastal inundation and from inventories of cultural resources.

99. Zooarchaeology 3D Digitization

Brianna King, Anthropology, Undergraduate Student

College of Arts, Humanities & Social Sciences

Our research project consists of photographing animal remains and combining the photos to make digital 3D models which will later be used for student education for those who do not have direct hands-on access to these materials. To provide accurate models to be studied, photographs are taken of each bone 360 degrees around and stitched together using a program called STRATA 3D. The purpose of this project is to make our zooarchaeology collection available to the public while also ensuring that the remains will not be damaged. By incorporating the use of STRATA 3D, current and future students of Humboldt State University will be able to access this database for years to come.

Musical Performances | Library 1st Floor • 3:00 - 4:30pm

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Experiment I — Kyle McInnis (b. 1989)

Craig Hull, tenor trombone
Matthew Brown, tenor trombone
Bret Johnson, tenor trombone
Corey Tamondong, bass trombone

● ● ●

From *La Bonne Chanson* — Gabriel Fauré (1845-1924)
N'est-ce-pas?

Jessie Rawson, soprano
John Chernoff, piano

● ● ●

Partita No. 2 in d minor, BWV 1004 — Johann Sebastian Bach (1685-1750)
Corrente
Giga

Michael Barrett Donovan, violin

● ● ●

Bagatelles, op.47 — Antonin Dvorak (1841-1904)
Allegretto Scherzando

Angela Galioto, violin
Michael Hall, violin
Kyle Swanson, cello
Elisabeth Gent, piano

● ● ●

Lute Suite No. 2 in C Minor, BWV 997 — Johann Sebastian Bach (1685-1750)
Prelude

Andrew Heavelin, guitar

Excerpts from *Speed Dating Tonight!* — Michael Ching (b. 1958)

Ana Cruz, soprano
Jessie Rawson, soprano
Noah Sims, baritone
Raul Yepez, tenor
John Chernoff, piano

Concerto for Trombone and Orchestra — Launy Grøndahl (1886-1960)

Quasi una Leggenda: Andante grave

Craig Hull, trombone
John Chernoff, piano

Quartet No. 1 in E-flat Major, Op. 12 — Felix Mendelssohn (1809-1847)

Canzonetta

Thomas Starkey- Owen, violin
Danielle Allison, violin
Karen Davy, viola
Summer McCall, cello

Imitations, Etudes, Musings, and Jokes — Michael Barrrett Donovan (b. 1994)

What if:
I. You Never Existed
II. We Never Met
III. I Never Existed

Ryan McGaughey, piano

Vals Venezolano – Yacambu — Antonio Lauro (1917-1986)

Adrien Bouissou, guitar

Film Screenings | Library 1st Floor (Room 120) • 4:30 - 5:30pm

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4:30 Filmmaking I — Beginning 16mm Film
Of Two Minds (2:00)
Written & Directed by David Bennett
Cinematography: Gail Camenzind
Lighting: Nairobys Apolity & Leo Laciura-Foley
Cast: Gabe Haffner, Marcos Villarreal, David Bennett, Sorca Hubbock, Leo Laciura-Foley

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4:35 Filmmaking II — Intermediate Film (Digital and 16mm Productions)
Alexandre Eco-Dairy Family Farms (3:00)
A collaborative film by
James Simmons
Nick Handcock
Nick Wohlfarth
Monica Robinson
Nairobys Apolito
Alex Orozco
Featuring Alexandre Family

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4:40 Humboldt International Film Festival Promotional Spots
The Redwood Wonderland (1:12)

CSU Media Arts Festival Best Promotional Video Award 2015

Written, Directed Produced & Edited by Tobias Edward Theodore Worrall
Cinematography: James Simmons & Tobias Edward Theodore Worrall
Assistant Producer: Isabelle Van Horn
Digital Colorist: James Simmons
Lighting: Alex Orozco
Illustrator: Alex Orozco
Makeup: Natasha Mariani
Cast: Kat Bursich, Jeremy Brusich, Wil Guilfoyle, Trevor Markham, Mia Ribisch, Patrick O'Dwyer, Fintan O'Dwyer, Liam Mc Phee, Rosemary Stevens

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49th Humboldt International Film Festival (:30)
Written, Directed Produced & Edited by Tobias Edward Theodore Worrall
Co-produced & Co-edited by James Simmons

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4:45 Filmmaking III—Advanced Film (Digital)
Forge (7:22m)

CSU Media Arts Festival Best Documentary Award 2015

Directed by Savannah Carpenter, Zane Critch & Andrew Baird
Producers: Judd Baker & Alana Souza
Cinematography: Andrew Baird
Editors: Andrew Baird & Judd Baker
1st Assistant Camera: Lucien Newell & Judd Baker
Color Grading: Judd Baker
Title Design: Shinichiro Tanaka
Sound Design: Judd Baker
Featuring: Joe Koches

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5:00 Filmmaking IV—Advanced Capstone Class
Deep Sleep (11:44m)
Written & Directed by Andrew Baird
Producers: Rebecca Scholte & Dionna Mleklush
1st Assistant Director: Rebecca Scholte
Cinematographer: Ethan Cardoza
Editors: Austin Alexander, Andrew Baird
Gaffer: Judd Baker
1st Assistant Camera: Chris Gardner, Kimberly Nguyen,
Production Designer: Shinichiro Tanaka
Sound Recorder: Connor Spurr
Makeup & Wardrobe: Marissa Menezes
Assistant Set Dresser: Nairobys Apolito, Theresa Jaime, Kimberly Nguyen
Sound Designer: Connor Spurr, Andrew Baird
Colorist: Andrew Baird
Digital Special Effects: Shinchiro Tanaka, Andrew Baird, Kimberly Nguyen
Starring: Bailey Barnick, Brodie Storey, Kelechi Nwadibia, Taylor Wade, David Scheerer

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5:15 Filmmaking IV—Advanced Capstone Class
The Fight To End Rape (8:56m)
Produced, Directed, Filmed & Edited by Sam Boyd
Sound Recordist: Emily Hall
Voice Over: Jessica Ernst

Dance Performances | Library 2nd Floor • 3:00 - 4:00pm

Passing Through
Choreographer: Lisa Drew
Music: "We Insist" by Zoe Keating
Performers: Lauren Baker, Erika Barnett, Ginger Greenlee, Sarah Martin, Emily Mensing, Claire Patterson, Austin Silavong, Eric Sorensen

This dance represented Humboldt State at the American College Dance Association Conference in March 2016.

Until We Are Lost
Choreographer: Megan Newbold
Music: "Night" by Ludovico Einaudi
Performers: Jacqueline Estrada, Paola Delafuente, Madison Kaisan, Luz Mejia

"Until We Are Lost" is a journey through confusion and loss of self into renewal and self-discovery -"not until we are lost do we begin to understand ourselves."

Magna Feminam Artifex
Choreographer: Claire Patterson
Music: "Blanket of Ash" by Mamiffer
Performer: Claire Patterson

"Magna Feminam Artifex" is a postmodern work grappling with the institutionalized sexism of the art world, as well as the more general societal constraints forced upon women throughout time.

Magna Feminam Artifex was selected as one of the top 10 dances in the Western United States.

Irresolution
Choreographer: Moira Winchell
Music: "The Winner" by Mychael Danna
Performers: Lauren Baker, Lisa Drew, Kassie Guimapang, Emily Mensing, Megan Newbold

"Irresolution" is a contemporary work capturing the hesitancy and conflict felt by one who is ready to move onward, yet is reluctant to release the comfort and familiarities of their past and present.

Self-Refraction
Choreographer: Kassie Guimapang
Music: "To Build a Home" (Instrumental) by The Cinematic Orchestra
Performers: Gino Bloomberg, Myranda Dominguez, Sarah Martin, Emily Mensing, Austin Silavong, Bekah Staub, Cary Alexis Turner, Moira Winchell

"Self-Refraction" is an emotionally-driven dance based on one's own internal struggle – a struggle that can leave a person broken into many parts. It is through the transformative powers of love, support, understanding, and kindness that we are made whole again.

Gratia Incarnare
Choreographer: Jonny Wisan
Music: "Recordare" by Libera
Performer: Ambar Cuevas

"Gratia Incarnare" is a poignant, abstract narrative. Danced from the perspective of the Virgin Mary, it alludes to three significant events: the Annunciation of the Angel, the Crucifixion, and the death of Christ.

It's The Rhythm...
(excerpts)
Choreographer: Linda Maxwell
Music: excerpts from "Rachet" by Hip Hop Beat Makers
Performers: Gino Bloomberg, Jacqueline Estrada, Diego Morales, Edgar Ocelotl, Michael Ruff, Lamont Douglas, Ingrid Hodel, Luz Mejia, Austin Silavong, Kassie Guimapang

Theatrical Performances | Library 2nd Floor • 4:00 - 5:00pm

Majors and minors will be showcasing recent work including scenes from HSU's production of Jungalbook and the Irene Ryan Competition (hosted by the Kennedy Center American College Theatre Festival).

Student presenters include: Camille Borrowdale, Izzy Ceja, Ambar Cuevas, Rilo DeAnn, Anna Duchi, Heather Karns, Bryan Kashon, Ashlyn Mather, Chelly Purnell, Sydnee Stanton, Alexander Stearns, Mickey Thompson, & Jonny Wisan.

humboldt.edu/ideafest

This event is sponsored by the Office of Research, Economic and Community Development, University Advancement and the HSU Library in collaboration with the Colleges.

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A special thanks to the Theatre, Film, Dance, & Music Departments for their contributions to the programming this year!

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Be sure to check out the opening reception for Sculpture Walk 2016, starting at 5:00pm in the HSU Library Lobby.

HUMBOLDT STATE UNIVERSITY