# 2009

# May 9, 2009

John Spoor Broome Library







Inaugural

# A SHOWCASE OF RESEARCH, SCHOLARSHIP, CREATIVE ACTIVITIES AND GRANTS \*\*A SHOWCASE OF RESEARCH, SCHOLARSHIP, CREATIVE ACTIVITIES AND GRANTS \*\*A SHOWCASE OF RESEARCH, SCHOLARSHIP, CREATIVE ACTIVITIES AND GRANTS \*\*A SHOWCASE OF RESEARCH, SCHOLARSHIP, CREATIVE ACTIVITIES AND GRANTS Faculty Student Research Forum

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# Table of Contents

Schedule of Events
A Welcome from the Provost and Dean
Oral Presentations.4Abstracts.8Digital Art Presentations.14
Poster Presentations
Thanks & Acknowledgements
Notes29
Library Map30

# Schedule of Events

# Saturday, May 9, 2009

9:15 a.m. Registration and Continental Breakfast

Broom Library-Group Study

9:45 a.m. Welcoming Remarks

Dr. Richard Rush, President Broome Library-Group Study

10:00 a.m.-Noon Oral Presentations

Broome Library Classrooms

Poster Presentations

Broome Library Exhibition Hall and Reading

Room

# A Welcome Letter from the Provost and Dean

May 9, 2009

### Dear CI Colleagues and Community Guests:

Welcome to the Inaugural Faculty and Student Research Forum at California State University Channel Islands. This event is an exciting opportunity to experience the best of research, scholarship, and creative activities at CI. Students and faculty alike will share their discoveries, whether they are examining *Interventions and Preventions of Childhood Obesity*, exploring the *Prehistoric Occupation of Santa Cruz Island* or experimenting on the *Effects of Small Molecule Antioxidants and Drugs on Human Neural Stem Cell Proliferation and Differentiation*.

The Forum is a celebration of the accomplishments of our students and the efforts of our faculty. This collaboration between the students and faculty is a CI hallmark. We hope that this forum will inspire continued scholarly and creative achievements both in our students and faculty and that our guests will gain an appreciation for the academic excellence fostered at CI.

Thank you for supporting our students and faculty. We especially want to acknowledge and congratulate the faculty who have devoted so much of their time and effort in engaging our students in research, scholarship, and creative activities.

Sincerely,

Dawn Neuman

Dawn Heumon

Provost and Vice President for Academic Affairs

Ashish K. Vaidya Dean of the Faculty

A.h. Vandya

# Oral Presentations

Each presentation is allotted 25 minutes followed by a 5-minute question and answer period. Participants and guests are requested not to enter or leave the rooms during the presentations.

	Broome Library 1350			
<u>Time</u> 10:00 a.m.	Presenter(s) Christina Fahim, Lisa Winfrey, Amanda Goldstein, Dr. Donald Rodriguez and Dr. Angela Chapman Biology and Environmental Science and Resource Management	<u>Title</u> A Comparison of Current and Historical Shorebird Populations in Ventura County		
10:30 a.m.	Hannah Lau History	Past and Present: The Hula and its Dancer		
11:00 a.m.	Douglas Holmes Computer Science	Graduation Requirements Checker using OWL		
11:30 a.m.	Josefina Flores, Kathleen Lewis and Derek DeSantis Mathematics	Mathematical Modeling of Structured Textures		

	Broome Library 1360		
<u>Time</u> 10:00 a.m.	<u>Presenter(s)</u> Dr. Scott Frisch and Dr. Sean Kelly Political Science	<u>Title</u> Cheese Factories on the Moon: Why Earmarks are Good for American Democracy	
10:30 a.m.	Dr. Tracylee Clarke Communication	Native Americans and Nuclear Waste: Narratives of Conflict – The Storing of Nuclear Waste on the Skull Valley Goshute Reservation	
11:00 a.m.	Dr. Tiina Itkonen and Douglas Whitesell Education and Computer Science	Frames, Mobilization, and Policy Outcomes: Comparing Autism versus Mental Retardation Activism	
11:30 a.m.	Andrew Mostowa, Margaret Freaney and Dr. Jesse Elliott  Mathematics	Presentations of integer-valued polynomial rings	

	Broome Library 1420-Exhibition Hall		
<u>Time</u> 10:30 a.m.	<u>Presenter(s)</u> Leah Cunningham Performing Arts	<u>Title</u> Demonstrations of Acting Techniques	
11:00 a.m.	Corey Colin Performing Arts	Clichés and Playwriting in Practice	

	Broome Library 1750		
<u>Time</u> 10:00 a.m.	Presenter(s) Heather Martin Environmental Science and Resource Management	<u>Title</u> Growth of Invasive New Zealand Mud Snails	
10:30 a.m.	Fahimeh Fakour Computer Science	Bridging Languages: Research on Statistical Machine Translation	
11:00 a.m.	Jennifer Ormond Environmental Science and Resource Management	Using benthic macroinvertebrates to evaluate land-use impacts on water quality: A Santa Clara River Watershed Study	
11:30 a.m.	Dr. AJ Bieszczad, Douglas Holmes, Jonathan Neypes, Maximillian Kaufmann, Nicholas Peters and Fahimeh Fakour Computer Science	Brain-inspired forecasting models	

Broome Library 1756			
<u>Time</u> 10:00 a.m.	Presenter(s) Andrew Ritchie and Dr. Blake Gillespie Chemistry	Title Ligand-Dependent Conformational Dynamics of CusF, a Copper-Binding Protein, Measured by Hydrogen-Exchange NMR.	
10:30 a.m.	Dr. Colleen Delaney-Rivera, Riley Cleveland, Tobias Grether, Garrett Kuiken, Meghan Koch, and Danielle Tusi Anthropology	History of Human Occupation at Rancho Guadalasca	
11:00 a.m.	Dr. Sunghee Choi, Jessica Goede and Gillian McPherson Sociology	Ventura County Hunger Study 2009	
11:30 a.m.	Dr. Dennis J. Downey and Sara Griffin Sociology	Patronage of the Camarillo Farmers Market: Patterns & Social Significance	

# Broome Library 1760 Art Computer Lab

### Digital Art Presentations

	Broome Library 2325			
<u>Time</u> 10:30 a.m.	<u>Presenter(s)</u> Tanen Brown, Mary Grabiak, Maya Karta and Sid Pehrson Biology	<u>Title</u> Chemical Screening of Natural Plant Extracts for Inhibition of Cellular Growth		
11:00 a.m.	Ashley Bonneau Biology	Silencing of Rheb2 in mammalian cells		
11:30 a.m.	Bianca Villalobos, Ashley Callan, Katherine Campanelli, Meghan Miles, Tina Brenner and Dr. Kimmy Kee- Rose Psychology	Theory-of-Mind and Social Functioning in Natural Sciences versus Social Sciences Undergraduate Students		

Broome Library 2330		
<u>Time</u> 10:30am	Presenter(s) Colleen Mehlberg Environmental Science and Resource Management	<u>Title</u> How Bacterial Water Quality Varies in Relation to Storm Drains in the Ventura Harbor
11:30am	Matthew Tyler Misenhimer Computer Science & Mathematics	An Algorithm to solve for the Exact Solution to the Symmetric, Fully Connected Traveling Salesman Problem

Broome Library 2480			
<u>Time</u> 10:00am	<u>Presenter(s)</u> Laura Dolan Sociology	<u>Title</u> Where Have All the Good Guys Gone? The Feminization of Volunteerism	
10:30am	Aimee DeSiderio Sociology	The Effects of Food Insecurity on Mental Health-FOOD Share	
11:00am	Maricela Lemus Sociology	One Community, One Voice: Rescuing Political Engagement through Community Development Organizations- CEDC	
11:30am	Heather Martin, Alison Wall, Lydia Nguyen and Andrew Domingo Environmental Science and Resource Management	Hawaii's humpback whales - Establishing critical habitat requirements	

# Oral Presentation-Abstracts

### A Comparison of Current and Historical Shorebird Populations in Ventura County

Presenter(s): Christina Fahim, Lisa Winfrey, Amanda Goldstein, Dr. Donald Rodriguez and Dr. Angela Chapman

Location: Broome Library 1350

Time: 10:00 a.m.

The primary goal of this study is to continue the development of a long term data set of coastal bird observations to quantitatively investigate shorebird species and their seasonal populations along the Ventura County coastline. Fourteen one-kilometer transects, are being monitored monthly for three years. Results of this study will be compared to a similar three year study completed from 1994-1997 to improve our understanding of the effects of human activities on the coastal environment. Preliminary data analysis suggests that over the last decade there has been a decline in total numbers of shorebirds using the Ventura County beaches.

# Cheese Factories on the Moon: Why Earmarks are Good for American Democracy

Presenter(s): Dr. Scott Frisch and Dr. Sean Kelly

Location: Broome Library 1360

Time: 10:00 a.m.

Congressional earmarks have come to symbolize all that is wrong with our system of government. The popular depiction, fed by media exposes of projects such as the infamous "Bridge to Nowhere," is of a Congress obsessed with wasteful local projects fueled by the demands of greedy lobbyists and then delivered by Congress in exchange for campaign contributions or even worse, outright bribes. We argue and demonstrated that there is nothing essentially corrupt about congressional control of the purse strings, in fact the framers of the Constitution feared the concentration of spending power in the hands of the executive and therefore gave Congress the appropriations power. Earmarks have advanced good policy and are often very similar to spending on projects that are not earmarked. Furthermore, legislatures must produce majority coalitions supporting bills which contain provisions that will be unpopular with

many, and therefore typically have developed mechanisms to make legislation more palatable to ensure passage. Earmarks often provide the sugar that allows the bitter legislative pill to be swallowed.

# New Zealand Mud Snail Research in the Santa Clara Watershed

Presenter(s): Heather Martin Location: Broome Library 1750

Time: 10:00 a.m.

The non-native invasive New Zealand Mud Snail (NZMS; Hydrobiidae:Potamopyrgus antipodarum) invaded the Snake River in 1987, and in recent years expanded across much of the western U.S. and into Ventura and LosAngeles Counties (Santa Clara, Malibu watersheds) critical to conservation of southern steelhead trout (Oncorhynchus mykiss). To better understand where and how this invasion might spread we have begun a series of laboratory growth experiments. These data will then be used to estimate maximum growth rates under real-world conditions found throughout Ventura and southern California.

### Past and Present: The Hula and its Dancer

Presenter(s): Hannah Lau Location: Broome Library 1350

Time: 10:30 a.m.

The Hawaiian hula has a vast history that has transformed right along with the islands themselves. My paper examines the drastic change of the hula and its dancers from a once sacred and respected religious practice to one of Hawaii's best selling tourist commodities. The chants of the hula are a history book of the Hawaiian people and culture. My research traces the history of this cultural practice from its ancient origins to the transformations brought about by, Western culture and a foreign influx. I argue that this transformation was ultimately detrimental to the Hawaiian hula and its performers.

### Native Americans and Nuclear Waste: Narratives of Conflict – The Storing of Nuclear Waste on the Skull Valley Goshute Reservation

Presenter(s): Dr. Tracylee Clarke Location: Broome Library 1360

Time: 10:30 a.m.

For over a decade conflict among members of a small Native American in Southwestern Utah has resulted in intra-tribal fights, lawsuits, a coup and a new regime, and threats of termination of tribal membership. At the core of the conflict among members of the Skull Valley Goshutes over the storing of nuclear waste on their reservation are issues of political, cultural, and environmental identity. Using narrated identity theory by Paul Ricoeur, I analyze narratives from tribal members and conclude that both political and cultural identity are constructed, maintained, and negotiated through narratives about nuclear waste and are articulated in such a manner as to create a direct connection with the natural world creating a complex milieu for tribal policy development and decision-making.

### **Demonstrations of Acting Techniques**

Presenter(s): Leah Cunningham Location: Broome Library 1420

Time: 11:00 a.m.

My presentation will include a performance by myself and another student from a Tennessee Williams play, and a presentation of my research of various acting techniques that I have found to be most instrumental with my acting progression. Some of the techniques I will be discussing will include, The Stanislavsky System, The Miesner Method and The Lee Strasberg techniques on acting. The performance half of my presentation will further demonstrate the practical use and integration of the acting techniques noted above.

# Bridging Languages: Research on Statistical Machine Translation

Presenter(s): Fahimeh Fakour Location: Broome Library 1750

Time: 10:30 a.m.

Natural Language Processing focuses on the ability of computers to communicate with human beings through natural language. This project aims to explore a subfield of Natural Language Processing: statistical machine translation. The focus of this project was to implement—and experimentation with—machine learning and statistical models to translate texts between two languages, in this case English and Farsi. A text, its translation, and a dictionary of words provide the computer with a means to "learn" from this text. In this experiment, the syntax of the language is used as a basis for organizing the translated words into sentences.

# History of Human Occupation at Rancho Guadalasca

Presenter(s): Dr. Colleen Delaney-Rivera, Tobias Grether and Danielle Tusi

Location: Broome Library 1756

Time: 10:30 a.m.

Professor Delaney-Rivera's current research explores the history of human occupation on the Oxnard Plain, focusing on issues related to resource availability, site location, occupational patterns, and exchange between coastal, island and mainland Chumash groups. As a part of University 498, CSUCI students have documented archaeological sites and analyzed archaeological materials recovered from several prehistoric habitation sites located within Rancho Guadalasca, a Mexican-era land grant that partially overlaps with the CSUCI campus. The ongoing analysis sheds light onto life in the CSUCI vicinity over the past 2500 years.

# Chemical Screening of Natural Plant Extracts for Inhibition of Cellular Growth

Presenter(s): Tanen Brown, Mary Grabiak, Maya Karta

and Sid Pehrson

Location: Broome Library 2325

Time: 10:30 a.m.

The insulin/TSC/mTOR pathway has attracted broad scientific and clinical interest, particularly in light of the ongoing clinical cancer trials with mTOR inhibitors. The mammalian target of rapamycin (mTOR) is a protein which is involved in several signal transduction pathways related to cell metabolism, growth and proliferation. In the proposed study, various chemically conditioned plant extracts will be used to determine if they can inhibit mTOR signaling in a variety of mammalian cell lines and modulate cellular proliferation. Two compounds have been identified in a library of 82 compounds which drastically affect cellular growth.

### How Bacterial Water Quality Varies in Relation to Storm Drains in the Ventura Harbor

Presenter(s): Colleen Mehlberg Location: Broome Library 2330

Time: 10:30 a.m.

Studies have demonstrated strong correlations between increased levels of fecal indicator bacteria (FIB) in marine waters and adverse human health effects including gastrointestinal, respiratory illness, and infections of the eyes, skin, and ears. Human health concerns give rise to economic incentives to regulate bacterial water quality and laws to protect the public from illness. The Ventura Harbor suffers from poor bacterial water quality but little information is available about the sources of contamination. This study looks at the impact of storm drains on the bacterial water quality within the Ventura Harbor through water quality monitoring.

# Graduation Requirements Checker using OWL

Presenter(s): Douglas Holmes Location: Broome Library 1350

Time: 11:00 a.m.

The World Wide Web Consortium (W3C) recommends a number of standards, including HTML, HTTP, XML, RDF and others, to support interoperability on the Internet. Many of the more recent standards are focused on automated, machine-level "semantic" interoperation. In this light, I present a proof-of-concept application to demonstrate the use of such a W3C standard web query language (SPARQL) to interrogate a model - or ontology - of a university catalog created using the W3C standard knowledge representation language, OWL DL. The focus of the ontology and the queries is the generation of Graduation Requirements for students with declared majors.

### "Frames, Mobilization, and Policy Outcomes: Comparing Autism versus Mental Retardation Activism"

Presenter(s): Dr. Tiina Itkonen and Douglas Whitesell

Location: Broome Library 1360

Time: 11:00 a.m.

This research employs an innovative conceptual framework for examining organized mobilization and policy influence among interest groups representing people with autism and mental retardation. Of specific interest is whether and how the values that undergird issue framing and the social construction of individuals with disabilities also affect the mobilization of interest groups and their policy influence. By linking (a) the literature on issue framing and social construction of target populations with (b) the normative and value-laden properties of social capital, we develop an interdisciplinary framework for analyzing why the interests of some persons with disabilities are well represented in policy making institutions while others' are not. We foreground in the present analysis our theoretical framework and contributions to the extension and modification of existing theory.

### Clichés and Playwriting in Practice

Presenter(s): Corey Colin

Location: Broome Library 1420

Time: 11:00 a.m.

I will direct selected scenes from the play I wrote titled "Cert" to be performed. "Cert", a uniquely cliché story which follows the main character Cert through a web of difficulties after a tough high school break-up. The story is a celebration of the universal similarities in life, love and what is perceived to only happen in the movies. A montage of truth, a reflection of past experience cleverly cloaked by heartbreaking formulas and comedic dialogue.

# Using benthic macroinvertebrates to evaluate agricultural land-use impacts on water quality: A Santa Clara River Watershed Study

Presenter(s): Jennifer Ormond Location: Broome Library 1750

Time: 11:00 a.m.

The primary goal of this study is to examine how agricultural land-use practices within the Santa Clara River watershed impact benthic macroinvertebrate (BMI) communities. Nationwide, numerous studies have shown that certain land use practices cause significant impacts on their adjacent streams and rivers. 61.9 percent of the land within the Santa Clara floodplain is agriculture, with another 21.5 percent industrial, including areas zoned for mining. The remaining 16.6 percent is divided among residential, commercial, open space/recreation, and a mere 1.6 percent as vacant. This study hypothesizes that the BMI communities within the Santa Clara River watershed will be significantly impacted in streams that flow through agricultural areas.

### Ventura County Hunger Study 2009

Presenter(s): Dr. Sunghee Choi, Jessica Goede and Gillian

McPherson

Location: Broome Library 1756

Time: 11:00 a.m

The purpose of this study is (1) to assess the number of hungry and food insecure people; (2) to understand the patterns and causes of hunger and food insecurity; and (3) to evaluate how current social services programs and community agencies are effectively and adequately meeting the needs of the hungry in Oxnard, Port Hueneme, and Santa Paula. This study is particularly timely and important because it assesses how the current economic crisis is affecting the existing hungry and food insecure population and if the economic crisis has resulted in creating a newly hungry population in Ventura County.

# Silencing of the Rheb Gene in Mammalian Cells Using RNA Interference

Presenter(s): Ashley Bonneau Location: Broome Library 2325

Time: 11:00 a.m

Rheb is a critical component of the insulin/mTOR pathway which has been implicated in a wide variety of cancers. Understanding the regulation of this pathway is key to the development of therapeutic cues. The function of the Rheb2 gene is being analyzed in mammalian cells using RNA interference as a means of silencing the gene expression via siRNAs. We have successfully established candidate siRNAs which are efficient in knocking down expression and are presently being studied for dose and time responsive profiles. Cellular effects on cell cycle progression and intracellular signaling are also being studied using various biochemical assays.

# Mathematical Modeling of Structured Textures

Presenter(s): Josefina Flores, Kathleen Lewis and Derek DeSantis

Location: Broome Library 1350

Time: 11:30 a.m

Textures lie on a spectrum from periodic (wallpaper) to random (TV static). At either end, the choice of the mathematical model is clear. For textures in between, however, there are many options, each with strengths and weaknesses. This project examines modeling near-periodic (structured) functions as a periodic function together with a warping and uses coefficient analysis to find relationships between the periodic function and warping on one hand, and the structured function on the other.

# Presentations of integer-valued polynomial rings

Presenter(s): Andrew Mostowa, Margaret Freaney and

Dr. Jesse Elliott

Location: Broome Library 1360

Time: 11:30 a.m.

Integer-valued polynomial rings provide an excellent source of examples and counterexamples in the mathematical theory of commutative rings. We will give a brief introduction to integer-valued polynomial rings for the non-mathematician and present our progress towards pinpointing a ring-theoretic "presentation" for certain rings of integer-valued polynomials.

### Brain-inspired forecasting models

Presenter(s): Dr. AJ Bieszczad, Douglas Holmes, Jonathan Neypes, Maximillian Kaufmann, Nicholas

Peters and Fahimeh Fakour Location: Broome Library 1750

Time: 11:30 a.m

Forecasting capabilities of two brain-inspired computational models are explored on several sets of historical data. The models are trained on time series, and then used to predict data from both known and unknown data sets. The learning process is based on building connections between nodes that represent the data. When the resulting connectionist network is activated at the node representing some starting datum, it generates a series that preserves the historical trends. There are numerous applications of such capabilities; for example in forecasting weather, financial markets, resource allocation, etc. The quality of predictions is measured by Symmetric Mean Absolute Percent Error (SMAPE) that evaluates the error across the whole series.

### Patronage of the Camarillo Farmers Market:Patterns & Social Significance

Presenter(s): Dr. Dennis J. Downey and Sara Griffin

Location: Broome Library 1756

Time: 11:30 a.m

Our research presents findings from a survey of patrons to a mid-sized farmers market in Camarillo, California, assessing patterns of patronage and customer satisfaction.\* The questionnaire, administered to approximately 170 patrons, included additional items designed to assess the broader role of the farmers market in the community – specifically, the relative importance of various reasons for patronage, and what that tells us about the potential for farmers markets to contribute to community-based social capital and the strength of civil society. We are currently at the stage of data analysis, so specific findings are not yet available.

### Theory-of-Mind and Social Functioning in Natural Sciences versus Social Sciences Undergraduate Students

Presenter(s): Bianca Villalobos, Ashley Callan, Katherine Campanelli, Meghan Miles, Tina Brenner and Dr.

Kimmy Kee-Rose

Location: Broome Library 2325

Time: 11:30 a.m.

The current ongoing study compares Theory-of-Mind (TOM) and social functioning between 47 undergraduate students in the Natural Sciences versus 51 students in the Humanities and Social Sciences, and examines whether TOM is related to social functioning in the Natural Sciences sample. Interim analyses revealed that students in the Natural Sciences performed significantly worse in TOM compared to students in the Humanities and Social Sciences. The group difference was also significant for social functioning, with the Natural Sciences group exhibiting poorer social functioning than the Humanities and Social Sciences group. Lower scores on TOM were related to poorer social functioning in the Natural Sciences sample. These preliminary findings could potentially expand our understanding of the role of theoryof-mind and social functioning in different groups of healthy individuals.

# An Algorithm to solve for the Exact Solution to the Symmetric, Fully Connected Traveling Salesman Problem

Presenter(s): Matthew Tyler Misenhimer

Location: Broome Library 2330

Time: 11:30 a.m.

I assert that my algorithm to solve this Traveling Salesman Problem provides the exact answer to the problem, and in polynomial time. This may then prove that either this form of Traveling Salesman Problem is not NP-HARD, or that NP-HARD problems can in fact be solved in polynomial time. I will provide the solution and attempt to prove that this algorithm provides the exact answer.

# Hawaii's humpback whales - Establishing critical habitat requirements

Presenter(s): Heather Martin, Alison Wall, Lydia

Nguyen and Andrew Domingo

Location: Location 2480

Time: 11:30 a.m.

Over 50% of the Central North Pacific humpback whale population congregates each winter in the waters of Hawaii. In the protected channels within the island chain the whales mate, calve and raise their young; as such these island waters represent critical habitat for this endangered species. This year, as part of an IRA funded, service learning project, an interdisciplinary group of CSUCI students and faculty embarked on a research project in this region. The aim of the project is to clearly define this critical habitat and identify the key factors that drive such specific habitat choice within the region.

# Digital Art Presentations

### Faculty Member: Lizabeth King Digital Art will be displayed in Broome Library 1760.

- ❖ Sarah Abando, I Ran Flash music video
- ❖ Afiz Adriz, Schizm Water website
- Cesar Aldana, The Taxman, Flash music video
- Spenser Allen, The Superhero? Flash Music video
- Tony Avila, MegaByte Energy Drink website
- ❖ Amy Buchanan, Self Portrait Digital Print
- \* Brett Cipperly, Function website
- Cassandra Evans, www.cledesignstudios.com
- Charlotte Ferguson, Velouria website
- Claire Flores, Coin Operated Boy -Flash music video
- ❖ Lara Griffin, GT Analytical website
- \* Terry Harmon, Flash music video
- Meredith Husk Self Portrait Digital Print
- Darren Klug, portfolio website
- Matt Lawler, Tribute to Jake Starkey -Flash music video
- ❖ Joel Malone Self Portrait Digital Print
- Michael McGarry , website: www.mcgarrydesign.com

- ❖ Sarah Meske, I Wanna Hold Your Hand Flash music video
- William Ngo, Self Portrait Digital Print
- Margaux Pinero, Buduke website
- Jerilee Petralba, Sakura Sake website
- \* Alfredo Salcedo, Portfolio website
- Merissa Stith
  - Self Portrait as Medusa Digital Print
  - o Portfolio website
  - o Poker Face, Flash Music Video
- Danica Suzuki Zoot Energy Drink website
- ❖ Angelica Chong-Taylor, Vampires, Digital Print
- ❖ Katherine Thompson, Reverb Beverage website
- Melanie Tormos, Digital Print
- Lauren Uhler, Art History website
- Lydean Wooster, Silver's Kids comic website
- Jonathan Uyemori, Self Portrait Digital Print

# Poster Presentations

Posters Presentations are a mix of Faculty, Students and Faculty Student Collaborations. Posters will be displayed throughout the first floor of the Broome Library. Presenters will be available to answer questions regarding their projects.

### **Individual Poster Presentations**

<u>Presenter</u>	<u>Academic Program</u>	<u>Project Title</u>
Therese Joy Abad	Nursing	Disease Management of a Newly Diagnosed Lupus Patient
Dr. Mary Adler	English	Steinbeck Institute: National Endowment for the Humanities
Victor Alamillo	Nursing	Blood transfusions: Are there any alternatives?
Emmarose Ambrosio	Nursing	Treatment Regiments in Pancreatic Cancer
Chito Atangan	Nursing	Prostate-specific Antigen Testing as a Diagnosing Tool for Prostate Cancer
Nick Baca	Chemistry	Louis Stokes Alliance for Minority Participation Students
Loran Blazer	Nursing	Barriers to Cardiac Rehabilitation Participation
Tasha Bohr	Biology	Cloning of the myoglobin gene from Cetacea
Allison Bolduc	Environmental Science and Resource Management	The Channel Islands Marine Ecosystem and Sea Urchin Populations
Amanda Bolduc	Environmental Science and Resource Management	Algae Biofuel – the next alternative fuel Ventura County public perception
Jennifer Bonsangue	Mathematics	Mathematics and Forgery Analysis: The Dutch Golden Age
Rebecca Boring	Environmental Science and Resource Management	A conflict resolution for the Freeman Water Diversion Dispute

<u>Presenter</u>	<u>Academic Program</u>	<u>Project Title</u>
Ryan Cantos	Nursing	Efficacy of Medical Management Compared to Palliative Care Management in the Treatment of Pancreatic Cancer Patients
Shaye Cogan	Nursing	Controversy over Immunizations
Jadona Collier	Nursing	Efficacy of Saline Nasal Irrigation as an Adjunct Therapy For Chronic Rhinitis
Monique Cortez	Nursing	Comparison of Enbrel and Methotrexate in the Treatment of Rheumatoid Arthritis
Laura Crisostomo	Nursing	Is there a Link between Vaccines and Autism?
Anna Cruz	Nursing	Minority Women at Risk for Coronary Artery Disease
Cynthia Ekanem	Nursing	Project How does society play a role in mothers choosing to breastfeed or not?
Fahimeh Fakour	Computer Science	Bridging Languages: Research on Statistical Machine Translation
Rebecca Felter	Biology and ESRM	Pollution prevention at the Port of Los Angeles: The relationship between particulate pollution and cargo movements
Charles Fox	Nursing	Does the Use of Exercise Reduce the Future Risk of Exacerbation for Children Diagnosed with Asthma?
Sharon Gaetos	Nursing	Cardiovascular Effects & Differences in Hormonal Concentration in Oral versus Transdermal Contraception

<u>Presenter</u>	Academic Program	<u>Project Title</u>
Rea Galera	Nursing	Why Circumcision?
Morganne Gallup	Nursing	Caffeine Therapy Use in Apnea of Prematurity
Jose A. Godinez	Nursing	Understanding developmental dyslexia and its comorbidities
Aileen Gonzalez	Nursing	Usage of Angiogram and Stenting in the newly diagnosed Myocardial Infarction patient.
Corinne Grandpre	Nursing	Coronary Artery Disease in Families with or without a Family History
Getachew Haile	Nursing	Barrett's Esophagus and its relationship to Gastro-Esophageal Reflux Disease
Dr. Phil Hampton	Chemistry	NSF Grant
Ryo Hanada	Nursing	Benefits of Smoking Cessation in the Life of a Smoker
Jamaika Harlan	Nursing	Kawasaki Syndrome and its prevalence in the Asian Pediatric Population
Taryn Hearst	Nursing	The Use of Magnetic Resonance Imaging in Diagnosing Breast Cancer
Scott Hedlund	Environmental Science and Resource Management	An Assessment of Passive Restoration in the Ventura River Preserve Citrus Grove
Stacey Herold	Nursing	Hormone Replacement Therapy and Breast Cancer in Post-menopausal Women.
Sam Hewatt	Applied Physics	Louis Stokes Alliance for Minority Participation Students

<u>Presenter</u>	Academic Program	<u>Project Title</u>	
Kathleen Hogg	Nursing	Does In-vitro Fertilization pose a risk for increasing developmental delays in infants born as multiple births?	
Douglas Holmes	Computer Science	Graduation Requirements Checker using OWL	
Mary Holmes	Environmental Science and Resource Management	Firescpaing: Determining resistant vegetation for effective application in fire hazard management	
Erica Johnston	Nursing	In Young Adults, what is the Effect of Artificial Sunlight on Skin Compared with Natural Sunlight?	
Robert Kiffe	Computer Science	AIDeR Web Interface	
Crystal Kiwitt	Nursing	The Use of Acetaminophen and the Occurrence of Asthma	
Meghan LaChance	Nursing	Usage of Guided Imagery and its Affects on Patients with Cancer	
Veronica Lazaro	Nursing	Breastfeeding's Protective Effect Against Childhood Obesity	
David Linzey	Nursing	Are Diet and Exercise enough to Treat Gestational Diabetes?	
Kari Lyman	Nursing	Diagnosis of Acute Myocardial Infarction in Women	
Kelly Lynch	Nursing	Invasive and Noninvasive Methods of Managing Diverticulitis in the Adult Population	
Tim Madison	Environmental Science and Resource Management	Does a Correlation Exist Between Knowledge and Support of Wind Power in Ventura County?	
Fides Magtoto	Nursing	Sildanefil Citrate usage in pulmonary arterial hypertension	

<u>Presenter</u>	<u>Academic Program</u>	<u>Project Title</u>
Heather Martin	Environmental Science and Resource Management	Zealand Mud Snail Research in the Santa Clara Watershed
Fumiko Matsumoto	Nursing	Effectiveness of treatments and prevention in lead poisoning in children
Rene McMurray	Nursing	The Oral Contraceptives and Breast Cancer Controversy
Colleen Mehlberg	Environmental Science and Resource Management	How Bacterial Water Quality Varies in Relation to Storm Drains in the Ventura Harbor
Meyann Mendoza	Nursing	Vitamin D Supplementation and Breast Cancer Prevention
Matthew Tyler Misenhimer	Computer Science & Mathematics	An Algorithm to solve for the Exact Solution to the Symmetric, Fully Connected Traveling Salesman Problem
Stefanie Misiura	Nursing	A Comparison of Intravenous Immunoglobulin Therapy with Stem Cell Transplantation on the Treatment of Primary Immunodeficiency Diseases
Kristine Mondares	Nursing	Sudden Infant Death Syndrome Prevention and the use of Pacifiers
Ariana Mora	Nursing	Preventing Foot Complications in Diabetes
Dr. Dennis Muraoka	Business and Economics	Zoos in the News
Michael Nava	Mathematics	Louis Stokes Alliance for Minority Participation Students
Lauren Nevins	Nursing	Interventions and Preventions of Childhood Obesity
Aaron Newton	Environmental Science and Resource Management	Cataloging of Invasive Tamarisk

<u>Presenter</u>	<u>Academic Program</u>	Project Title
Morgan Noe	Nursing	Comparing Partial and Full Liver Transplants
Adriana Olivas	Nursing	Are Lifestyle Modifications or Antihypertensives More Effective in Treating Hypertension
Erin Olson	Nursing	Preventing Colon Cancer in Adults Ages 50 and older
Jennifer Ormond	Environmental Science and Resource Management	Using benthic macroinvertebrates to evaluate agricultural land-use impacts on water quality: A Santa Clara River Watershed Study
Alex Pacheco	Chemistry	Louis Stokes Alliance for Minority Participation Students
Stefanie Palchanis	Nursing	Genetic predisposition in patients with malignant melanoma
Nicky Pang	Nursing	Prevention of Nursing Burnout in High Stress Areas within Hospitals
Claudia Petrilli	Nursing	How fluid deprivation affects the terminally ill
Ellaine Quintos	Nursing	During Space Exploration, is there an Effect on Astronaut's Musculoskeletal System?
Amanda Rein	Nursing	Colon Cancer in People With or Without a Family History
Brianne Rice	Nursing	Dietary Supplements: Beneficial or Harmful?
Cole Rieger	Computer Science & Mathematics	REX and Inverse Kinematics
Elizabeth Rodriguez	Nursing	Inflammatory Breast Cancer is a Silent Killer
Jenael Rose	Nursing	A Window of Opportunity: Tissue Plasminogen Activator

<u>Presenter</u>	<u> Academic Program</u>	<u>Project Title</u>
Roxanne Sanchez	Chemistry	Louis Stokes Alliance for Minority Participation Students
Nick Seldon	Environmental Science and Resource Management	Public Valuation of Marine Ecosystem Health
Allison Shaffer	Nursing	Risks and complications of using epidural anesthesia during labor
Kristi Sorensen	Nursing	In geriatrics, what is the effect of medications on COPD compared to nonpharmacological interventions?
Tyler Stover	Nursing	Comparison for efficacy of Percutaneous Coronary Interventions versus Thrombolytic Therapy in a Myocardial Infarction
Christine Tamez	Nursing	Seizure Alert Dogs and their Effects on Epilepsy Patients
Ashley Tillquist	Nursing	Environmental Effects on the Development of Childhood Asthma
Ana Trejo	Nursing	Evaluation of the use of Deep Brain Stimulation in treating Parkinson's Disease
Jessie Turley	Nursing	Effective Teaching Techniques for Young Adults with Autism
Ashley Tyler	Nursing	Management and Treatment of Pediatric Asthma
David Vielmetter	Computer Science	Custom E-commerce System Software

<u>Presenter</u>	<u>Academic Program</u>	<u>Project Title</u>
Christina Viramontes	Nursing	How to Cope with menopause symptoms without the use of hormones
Nick Winters	Computer Science	On porting physics engines to C# and XNA
Diane Wolschon	Nursing	Gamma Hydroxy Butyrate treatment in patients with Narcolepsy
Andrew J. Wright	Computer Science	Data Refresh: – A solution for data replication.
Richard Yale	Computer Science	Computer Asset Tracking Program

### **Group Poster Presentations**

<u>Presenters</u>	<u>Academic Program</u>	<u>Project Title</u>
Rich Block, Dr. Alex McNeill and Dr. Dennis Muraoka	Santa Barbara Zoological Garden, Liberal Studies, Business and Economics	Why Do Zoos Exist—An Investigation into the Surprising Mission of Accredited U.S. Zoos and Aquariums
Ashley R. Bonneau and Dr. Nitika S. Parmar	Biology	Silencing of the Rheb Gene in Mammalian Cells Using RNA Interference
T. T. Brown, M.S. Grabiak, M. R. Karta, S. M. Pehrson and Dr. Nitika Parmar	Biology	Chemical Screening of Natural Plant Extracts for Inhibition of Cellular Growth
Rebecca Cano, Brock Warmuth and Heather Martin	Environmental Science and Resource Management	Critical habitat for Hawaii's humpback whales
Lynette Davidson, Kelly Watson, Jacob Jones, Shannon O'Reilly, Daisy Cortes, and Dr. Kimmy Kee-Rose	Psychology	Deception, Social Desirability, and Emotion Regulation in Students with Higher versus Lower Skin Conductance Response
Alexandra Dee, Megan Doyle, Pavlina Mitchell, Julie Bagley, Sara Nygard, Cristina Brooks, and Dr. Kimmy Kee- Rose	Psychology	Is Psychosocial Adjustment a Predictor of Community-Based Services Program Success?
Dr. Colleen Delaney-Rivera, Riley Cleveland, Tobias Grether, Garrett Kuiken, Meghan Koch, and Danielle Tusi	Anthropology	Prehistoric Occupation of Santa Cruz Island
Dr. Colleen Delaney-Rivera, Riley Cleveland, Tobias Grether, Garrett Kuiken, Meghan Koch, and Danielle Tusi	Anthropology	History of Human Occupation at Rancho Guadalasca
Kartheek Dokka, Ankur Gholkar, Parissa Keshavarzian, Jessica Layman, Liz Thomas, Yue Jia Wu, and Dr. Ching-Hua Wang	Biology	Effects of Small Molecule Antioxidants and Drugs on Human Neural Stem Cell Proliferation and Differentiation
Vanessa Espinoza, Brian Gilreath, Danika Lindsay, Travis Moller, Jordan Swift and Dr. Greg Wood	Applied Physics	Statistical Mechanical Model of Water

<u>Presenters</u>	Academic Program	Project Title
Christina Fahim, Lisa Winfrey, Amanda Goldstein, Dr. Donald Rodriguez and Dr. Angela Chapman	Biology and Environmental Science and Resource Management	A Comparison of Current and Historical Shorebird Populations in Ventura County
Dr. Scott Frisch and Dr. Sean Kelly	Political Science	Cheese Factories on the Moon: Why Earmarks are Good for American Democracy
Elizabeth Geringer and Dr. Beatrice DeOca	Psychology	HELP ME! Can't You See I'm Crying?
Elizabeth Glinka, Jessica Layman and Jessyka Dalton	Biology	Regulation of gene expression during early development in Drosophila
Dr. Ivona Grzegorczyk, Jen Morrison, Shahab Laskari and Cole Rieger	Mathematics	Logic Games and Teaching Tools
Justin Hilf, Andrew Yaeger, Gil Rishton and Dr. Phil Hampton Andrea Lloyd, Tamara Payés and Dr. Nitika Parmar	Chemistry Biology	The Design and Synthesis of Curcumin Analogues to Inhibit Beta-Secretase. Over-expression and Purification of Mammalian TCTP
Colleen Mehlberg, Andrew Domingos and Jenny Blair	Environmental Science and Resource Management	Do abiotic factors influence habitat choice in Hawaii's humpback whales?
Andrew Mostowa, Margaret Freaney and Dr. Jesse Elliott	Mathematics	Presentations of integer-valued polynomial rings
S.M. Pehrson, D. Cantero and Dr. Nitika Parmar	Biology	creening for Modulators of Adipogenesis
Jean Remonida, Alison Wall, Talia Dominello and Eliza Garcialassalle	Biology	The development of diving capacity in young cetaceans: Tissue typing and buffering capacity in the muscle tissue of young cetaceans
Andrew Ritchie and Dr. Blake Gillespie	Chemistry	Ligand-Dependent Conformational Dynamics of CusF, a Copper-Binding Protein, Measured by Hydrogen-Exchange NMR.
Bianca Villalobos, Ashley Callan, Katherine Campanelli, Meghan Miles, Tina Brenner, and Dr. Kimmy Kee- Rose	Psychology	Theory-of-Mind and Social Functioning in Natural Sciences versus Social Sciences Undergraduate Students

<u>Presenters</u>	<u>Academic Program</u>	<u>Project Title</u>
Alison Wall, Lydia Nguyen and Talia Dominello	Environmental Science and Resource Management	Easy access educational tools for Hawaii's whale-watching industry
James P. Wilber and Dr. Simone Aloisio	Chemistry	Portable Ground Based Ozone Measurements in Ventura County, CA by UV Absorption
Andrew Wilson and Bonnie Rogers	Biology	The development of diving capacity in young cetaceans: Estimating the increase of myoglobin levels as young calves mature.

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Faculty Student Research Forum Planning Committee

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Nichole Ipach

Jill Leafstedt

Joan Karp

James Meriwether

Cindy Wyels

Amy Wallace

John Spoor Broome Library Staff

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# Notes

# John Spoor Broome Library - FIRST FLOOR



EMERGENCY EXITS	ADMINISTRATION & CONFERENCE ROOM	1576 & 1670
<del></del>	BEST SELLERS, CD, DVD, & VHS COLLECTION	1550
CLASSROOMS	CHECK OUT	1531
SERVICES	CHILDREN'S COLLECTION	
LIBRARY COLLECTION	CLASSROOMS	1310, 1350, 1360, 1710, 1750, 1756, 1760
<del>_</del>	COMPUTER LAB	1330
GROUP STUDY	EDUCATION ACCESS CENTER	
QUIET STUDY	EXHIBITION HALL	
<del></del>	GROUP STUDY	
OFFICES	INTERLIBRARY LOAN	
<b>♦ †</b> REST ROOMS	I.T. HELP DESK	
PHOTOCOPIER	LAGOMARSINO ARCHIVES	
	LIBRARIAN OFFICES	
S COPY CARD MACHINE	REFERENCE COLLECTION	
ELEVATOR	STUDENT TOWN HALL	
	30	

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LIBRARY COLLECTION	GALLERY	2537
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GROUP STUDY	J. HANDEL EVANS CONFERENCE ROOM	
QUIET STUDY	LEARNING RESOURCES CENTER	2760
	MEDIA LAB	
OFFICES	UNIVERSITY WRITING CENTER	2360
🛉 👖 REST ROOMS		
PHOTOCOPIER	ROOF TERRACE	3533 & 3537
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■ ELEVATOR

