Faculty Sponsor: Berman, Garrett
Student Recipient: Janani Subramaniam
Abstract: This study examined the effectiveness of differential explanations for eyewitness confidence inflation. Participants read one of five trial transcripts and then rated the eyewitness's effectiveness and defendant culpability. Results indicated that participants rated the eyewitness's testimony as less consistent in the inflation conditions, regardless of explanation type. Additionally, mock jurors perceived the memory epiphany explanation as the most reasonable explanation for confidence change compared to the memory contamination and no confrontation explanations. Results suggest that jurors are skeptical of eyewitness confidence inflation at trial and consider eyewitnesses who change their confidence at trial to be less consistent.

Faculty Sponsor: Berman, Garrett
Student Recipient: Geno Salomone
Abstract: In order to reduce the number of erroneous convictions due to mistaken identification, researchers have recommended that law enforcement utilize best practices and videotaping identification procedures. In a 2 (Administration of Lineup: Single-Blind vs. Double-Blind) x 4 (Perspective: Detective focus v. Eyewitness focus v. Focus on Both v. Audio Only) between subjects design, we examined how the differential impact of camera angle and knowledge of suspect by the detective on perceptions of the eyewitness, the lineup administrator, and the procedure. Preliminary findings reveal more favorable perceptions occur during single-blind compared to double-blind eyewitness identification procedure.

Faculty Sponsor: Bernardi, Richard
Student Recipient: a) Paul Arute and Erynne Landry; b) Taylor Delande
Abstract: a) This research is part of Erynn's Thesis with Distinction and Paul's Honors Thesis with Distinction. The reason they are being submitted together is that Erynne and Paul are assembling a common data set of the number of directors by gender for the 373 corporations that appeared on all seven Fortune 500 lists between 2006 and 2012. This period was chosen because it overlaps the financial crisis of 2008 and the subsequent reforms dictated by the Sarbines-Oxley Act (2002); b) This research is part of Taylor's Honors Thesis with Distinction. The purpose of this research is to provide a list of accounting's education authors and their ranking for doctorates in the Australia, Great Britain, Ireland, and New Zealand This research will examine 13 journals that published accounting education for the 47-year period between 1966-and-2012. For those doctorates still teaching, the research provides rankings by doctoral year and for four periods: 2003 to 2012 (most recent 10 years), 1993 to 2002 (next ten year period), 1966 to 1992 (last 25 years), and for the entire 47-year period.
**Faculty Sponsor:** Bosco, Susan  
**Student Recipient:** a) Michael Diercksen and Matthew DiPlacido; b) Kayla Silva and Meghan Perez; c) Kevin Manuel and Christina Duquette

**Abstract:** a) As social media use has become ubiquitous among an increasing number of individuals, its effect on the workplace must be considered. Organizations today use social media to recruit job candidates, screen those candidates, and finally, monitor them once they have been hired. These sites are also helpful to companies who find them an inexpensive means of advertising and monitoring social trends. The use of social media comes with a cost, however, and concerns about privacy are being raised by both job applicants as well as existing staff. Perceptions about those who use social media are also of concern for its users. This research project will survey individuals about their experiences with social media in the workplace; b) LinkedIn has come a long way since it began in Reid Hoffman's (co-founder) living room in 2002, as it is now the "world's largest" professional network with more than "175 million members in over 200 countries and territories as of August 2012" (About Us..., 2012). LinkedIn's goal is to help business professionals meet, make business deals, inquire about jobs, find careers, and more, all through connections with people whom members already know. This research study will investigate the use of LinkedIn by both college students and Human Resources professionals. Students' awareness of the best methods for effective use of this social media will be examined. One important aspect of its use by Human Resource professionals is the potential for unethical screening methods that result in discrimination against particular job candidates; c) The process for employee recruitment has changed over time, with today's human resource professionals and managers using more social media outlets to perform this task. As unemployment has increased in recent years, the ensuring avalanche of applicants for all open positions has necessitated a more effective and efficient means of screening them. Social media profiles are one source that is increasingly used by recruiters. These profiles, however, are not used to an equal extent by all candidates – generational membership is a factor in their use. In addition, once individuals are hired, these generational differences continue to have an impact on productivity and perceptions of work ethic. This research project will examine these two areas of key importance to organizations and make recommendations accordingly.

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**Faculty Sponsor:** Nancy Breen, Cliff Murphy, Stephen O'Shea, Cliff Timpson  
**Student Recipient:** a) Courtney Dennis; b) Timothy Blais; c) Matthew Houck; d) Joseph Favale

**Abstract:** a) The quantification of fatty acid methyl esters (FAME) using GC has become standard to fatty acid research. Quantifying FAMEs based on peak area has proven to be erroneous because this method does not correct for the differences in detector sensitivity to different analytes. Use of an external standard for each analyte of interest corrects for this, however, even with this, we recently observed errors in sample quantification which we have traced 10 the use of standards from different manufacturers. We prose to investigate this problem of lack of agreement between standards and carry out enough replicates to ensure statistically sound conclusions; b) Photovoltaic devices are currently not cost competitive as renewable energy alternatives to the fossil fuels currently dominating the energy marketplace. Dye sensitized solar cells (DSSCs) are well known for their potential towards cheap, efficient conversion of solar energy. We have been able use microwave heating to accelerate the deposition of ruthenium dyes onto conductive FTO and ITO substrates for inclusion in DSSCs.
We previously demonstrated comparable efficiencies between conventional and microwave methods (1.7x10^{-3}\% , 1.3x10^{-3}\% respectively) but with low overall efficiencies due to the lack of an anatase TiD, layer to increase available surface area. Introduction of a TiD, layer increases the microwave power these conductive substrates will tolerate without arcing electricity (TiD, up to 400W, plain FTO up to 175W). Here we present the efficiencies of DSSCs constructed with TiD, layers by both conventional and microwave heating, and substrate characterization by contact angle measurements, UV-Vis spectroscopy, and cyclic voltammetry; c) Large scale farming practices has led to a vast increase in the application of nitrogen based fertilizers in turn becoming a major source of bacterial nitrogen oxides. The focus of this research has begun to further elucidate bacterial nitrogen metabolism reaction pathways, intermediates and mechanisms using biomimetic porphyrin models of iron(III) and copper(VII). These metallo-complexes catalytic oxidizing potential of organo-phosphines by nitrogen dioxide (NO\(_2\)) and nitric oxide (NO\(_X\)) and their corresponding anions and cations has been investigated. Nitrogen oxides in-situ reactions and complexation of the metallo porphyrin centers were characterized by FTIR and UVVis spectroscopy. Organophosphine reaction products were determined by 31p NMR and the reaction headspace gases determined by GC/MS. A proposed mechanism has been postulated for organophosphine oxidation by NO. In situ ratios of metallo porphyrins to NO\(_X\) species were determined in the formation of the nitrosyl adduct. This work funded through RI's EPSCoR and NASA Space Grant Consortium; d) The goal of our most recent research efforts has been to explore new, efficient and facile ways to incorporate light absorbing dye molecules into Dye-Sensitized Solar Cells (DSSC). In this investigation, a silylated ruthenium dye complex has been synthesized for covalent attachment to hydroxylated surfaces. This was done by synthesizing 4,4'-disilyl-2,2'-bipyridine (Smith, A.P., et. al.; Org. Syn. 2004, 10, 107.) The structure and purity of the ligand was confirmed by both 13C and IH NMR spectroscopy. In particular, \( \delta = 0.4 \) (ppm, singlet, 18H) that corresponds to two silane groups was observed. The ligand was subsequently reacted with cis-(bpY)\(_2\)RuCh yielding the \([(bpY)\(_2\)Ru(4,4'-disilyl-2,2'-bpy)]\(^2+\) cationic complex in 50.2% yield. The formation of this complex was confirmed by UV-Vis, 13C NMR, and cyclic voltammetry. The ruthenium complex will be applied to a titanium dioxide coated conductive substrate and incorporated into a functioning DSSC. The utility of this approach to fabricating DSSCs is discussed.

Faculty Sponsor: Case, Margaret
Student Recipient: a) Katherine Torres; b) Kaleigh Wilson
Abstract: a) As the world becomes increasingly inter-connected and globalization is helping to blend cultural works, Japan is at the forefront. Studio Ghibli, a leading Japanese animation studio, was founded by Hayao Miyazaki and Isao Takahata in 1985 and since its founding, Studio Ghibli has achieved prominence for both Japanese and foreign, especially American, audiences. The canonical films of Studio Ghibli, successfully resonating in both Japanese and American cultures, include **Nausica\(\alpha\) of the Valley of the Winds** (1984), **Laputa: Castle in the Sky** (1986), **My Neighbor Tortora** (1988), **Princess Mononoke** (1997), **Spirited Away** (2001) and **Howl's Moving Castle** (2004). These animated works which are often marginalized as children's fare, are actually of exceedingly high quality, which is shown through multiple Japanese elements such as monozukuri ethos, mono no aware and mukokuseki. The resonance of these Japanese elements internationally serves to illuminate the ways in which our two cultures flow together, exposing the subtle differences and similarities between the two, as they coexist in a
global popular culture; b) Lawrence Bender Productions' *Good Will Hunting* (U.S.A., 1997)
might seem to be a feel-good love story, or perhaps even viewed as fleeting amusement because
it is a work of popular culture. However, a close analysis of the movie indicates a carefully
structured film designed to provide a gentle critique of the American Dream's materialism. In
place of the American Dream, the film offers an alternative set of values, replacing materialism
with emotional strength.

**Faculty Sponsor:** Celik, Gokhan  
**Student Recipient:** Perry Cyr  
**Abstract:** Attached documents present a request for a student's travel to present at the
International ASC Conference in San Luis Obispo, CA, April 9-13, 2013. The student has
worked with Dr. Bilge G6khan Celik for over one year as a part of a project funded during AY
2011-2012 by RWU Foundation to Promote Scholarship and Teaching Grant, which ended by
August 2012. The student has been working with Dr. Celik on a peer-reviewed publication since
the end of the grant using the data collected within the last year. Attached are the call for papers,
draft publication, budget, and budget justification documents.

**Faculty Sponsor:** Colin, Sean  
**Student Recipient:** Kelsey Lucas  
**Abstract:** Flexible margins of oscillating propulsors of animals swimming and flying in
relatively high Reynolds number fluids significantly enhance thrust during propulsion. This
suggests that flexible margins should demonstrate selection for morphologies that optimize thrust
and efficiency. We examined if such patterns existed in propulsor inflexion. Inflexion angles and
ratios were measured using video of animals representing divergent evolutionary lineages during
steady state swimming and flying. Aggregate groupings of these measurements fell within strict
ranges: _10°-40° for inflexion angles and -0.6-0.7 for inflexion ratios. These patterns suggest an
optimization of propulsors which is likely related thrust generation.

**Faculty Sponsor:** Cottle, Jacqueline  
**Student Recipient:** Briana Ransford, Sarah Stamm, Laura Vargas and Jillian Welch  
**Abstract:** Infrahumanization involves denying that members of outgroups have the potential to
feel the same emotions as our ingroup, and is a form of prejudice. Our CUItEnl study examines
the effects of mortality salience on the tendency to infrahumanize in response to torture. 183
student participants were first reminded of their mortality and then asked to rate a number of
torturous acts perpetrated by either an American or Iraqi guard. A marginally significant
interaction was found between mortality and country, as well as a significant main effect of
country. Iraqi soldiers had more secondary emotions, especially in the mortality condition.

**Faculty Sponsor:** D'Amore, Laura  
**Student Recipient:** a) Kara Beale; b) Jennifer Baker; c) Willie Borkai; d) Ruth Fox; e) Colleen
Giles; f) Olivia McCormick; g) Thanasi Metropoulos; h) Allison Pagliano; i) Charly Snellings
**Abstract:**
a) SEX. It's a three letter word that holds immense meaning. It judges people, it defines people, and it is an activity that is a natural part of human life. Yet, sex and speaking of sex publicly has a taboo stigma attached to it, especially for young adults. And yet, young people and especially college aged students have developed a culture in which sex and all it encompasses is at the center, intentionally and unintentionally, of college life. The idea of a sexual culture on college campuses is a relatively new concept that arose with the development of co-ed campuses. Modern day college life is no longer just focused on academics and receiving an education, but instead a large part is now focused on having fun and experiencing life in four years before it ends with getting a job and starting a family. College life now is focused around partying, drinking, and sex. With coed dorms and easy access to the opposite sex, coed colleges have created an atmosphere where sex has become as causal and as normal as going to class; b) I want to know how these victims were able to find closure within their abuse whether it be a court case where a person was found guilty and put in prison, counseling, speaking out, group involvement with putting on events, etc. And if they did not find closure, I want to figure out why they haven't found the closure they need and what programs have they tried that weren't helpful for them. There are all kinds of victims out there and we need to make sure we have a place for them to go to become the person they used to be. I would love to conduct personal interviews with first hand victims. There are many resources in RI that I could reach out to and ask for contacts; c) The author discusses the influence and control the media has on our society and how it contributes to the treatment of transgender people. Moreover, the author identifies ways in which the mass media harms and benefits the transgender community by gathering sources from primarily local/international newspapers (traditional and online), books, and a few scholarly studies as the issue of media representations of transgender people is relatively new. The author finds that although the mass media does not accurately depict and portray transgender people in many cases- due to the increasing number of recent transgender people in the mass media, representation of transgender people would gradually change for the better. The research shows that transgender people and supporters are challenging networks to appropriately portray the transgender lifestyle, which results show that representation in recent months has improved. The author ends the case study with an intervention intended for media networks to change the representation of the transgender community in the media with an intended outcomes of painting a more accurate picture and making it a more accepted lifestyle in society; d) I will be researching and writing about the sensational spin that is put on the majority of transgender individuals represented in our media. I would also talk about why it is that MTF trans people are much more frequently "showcased." I would research the statistics behind MTF and FTM transitions and see how incorrectly or correctly the media covers each percentage; e) This research paper aims to explain the complexity of the relationship between gender roles and the escalation of infection of HIV/ AIDS in the female population. The socialization of gender roles is affected by the American media. The media has contributed to the gender inequality of women that manifests into domestic and sexual expectations. This combination, set into effect by the reinforcement of the socialization of traditional gender roles in American society enhances the effect HIV/ AIDS has on the population of the women in America. Specifically, this research hypothesizes that the socialization of female gender roles is directly affected by popular media and one of the harmful byproducts of this is women's heightened vulnerability to HIV/ AIDS infection and caretaking of HIV/ AIDS patients. With young females being the population with the highest infection rates of HIV/ AIDS and the most likely to become caretakers trending not only in America but also globally, it is imperative to break down the cultural forces behind the spread of the pandemic; f) We watch our reality unfurl on television. We find that which we accept as truth on
NBC, CNN and Fox News and when the realities of our world's wars, starvation and devastation become too much for us to stomach, we indulge in the instant gratification that comes with the press of a button on a remote control. We find sanctuary in the false truths that await us on TLC, Bravo and MTV. Katniss Everdeen, the protagonist of Suzanne Collins' book The Hunger Games, is the ideal female icon and role model for girls in the year 2012 because she is trapped between those realities and through her eyes we get a chance to see the world we are evolving into because of our decision to choose entertainment and falsehood over priority and what ought to be unavoidable truths. My paper will be an in depth look at the social commentary of present day America represented in The Hunger Games through the lens of a possible result of the power reality TV and the media have over us while also discussing how important Katniss is as a role model for a generation of girls that need to be more concerned with the state of the country they're going to be responsible for in the future.

g) The Bristol Veterans History Project is a project I created in the town of Bristol, RI in cooperation with the Rogers Free Library. The purpose of this project is to record and preserve the stories of local area World War II and Korean War veterans. After each veteran has been interviewed, a copy of their recorded interview will be displayed in the Rogers Free Library in the town of Bristol. It is my hope that these interviews will be used as a resource for future generations to understand what veterans who lived all around them went through during some of the most trying times the world has ever seen. For a long time I have feared that everyday people are detached from veterans who fought during WWII and Korea, and in many cases do not even know if WWII veterans even exist anymore. Furthermore, school children only read a paragraph or so regarding these conflicts in class, and do not know what the everyday experience of a frontline soldier was like. As a result, I believe my project will effectively allow any person with access to the Rogers Free Library the opportunity to learn what it was like to fight on Iwo Jima or suffer intense shelling during the early days of the Battle of the Bulge. In addition to displaying the interviews in the town library, I will also write a paper that details each veteran's experience;

h) The current LGBT rights movement is supposed to be an all-inclusive movement. However, the first three letters of the acronym refer to sexual orientations and the last one, transgender, refers to a gender identity. Because of this difference, transgender people are often left out or forgotten in the LGBT rights movement. This can be seen in the controversial policy Don't Ask Don't Tell. It was assumed that it would covered trans people so now that the problem is seen as solved, no one cares about it anymore. Transgender service members in the military were not covered by DADT and have been forgotten by the LGBT rights movement. This paper argues that transgender people are not accepted in the military because they are not accepted in society as a whole. The paper will look at the Army Standards of Medical Fitness and the Diagnostic and Statistical Manual of Mental Disorders as concrete reasons the military does not accept transgender service members. I will look at transgender people who currently serve in the military and the concept of hypermasculinity. Then I will look at transgender veterans and the services that are offered to them. The paper will then examine the gender binary within the military and society. It will conclude with a critical examination of transphobia in society and discuss what would need to happen for transgender individuals to be accepted in society and the military; i) The transgender community has been tacked on to the end of the LGBT rights movement with very little advancement to show for it. Transgender people are not accepted in society as a whole, therefore the LGB community leaves them out of movements in order to get them passed. This paper will examine a movement like ENDA (Employment Non-Discrimination Act), DADT (Don't Ask, Don't Tell) and same- sex marriage and how transgender people have been left out for the greater good. This paper will look into the benefits and drawbacks for the transgender community to separate themselves from the LGB community. This topic is important now since there is growing discomfort with the connection between the two groups since they have such differing goals and members. In order for the transgender community to achieve equal rights in all aspects of society, there has to be a separation between the two groups.
**Faculty Sponsor:** D'Amore, Laura  
**Student Recipient:** Ruth Fox and Mikaela Feroli  
**Abstract:** I had a unique opportunity this past summer to work with two amazing undergraduate students to create new, original research projects to present at the 2012 Film & History conference in Milwaukee, Wisconsin, September 27-30. These students, Ruth Fox (senior, Psychology major, American Studies minor), and Mikaela Feroli, Junior, American Studies major), devised research proposals, and agreed to research and write over the summer-without getting course credit-to develop projects that were of specific interest to them. They were required to revise their papers, and practice their presentations, several times before attending the conference. Their panel was hugely successful, and truly, they were stars at the conference. I fielded so many compliments about them, and the work that is being done at RWU to produce such students, that I was really quite overwhelmed. I am very proud of them-and of RWU for sending them.

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**Faculty Sponsor:** Emmer, Michael  
**Student Recipient:** Nicholas Bitsis, Nathan Blinn, Perry Cyr, Kyle Baron, Michael Stuart and Micheal Decoulos  
**Abstract:** Each year RWU sends three teams of six students each to the Associated School of Construction (ASC) regional competition held in New Jersey. The basis of the competition is each team is presented with a real project that requires the students to develop real solutions to. Judges come from contractors in the Region 1 area such as Gilbane, Tetra-Tech, Pike, Skanska, Turner, and Whiting-Turner. Historically our teams have done very well in this competition and last year our design-build team finished second. This was quite an accomplishment since each team was competing with as many as 13 other schools in their respective problem categories. In the past there has been a national competition held by the ASC to allow the winners of each regional competition to compete against each other on a national stage. This competition was a joint effort between the Association of General Contractors (AGe) and the ASC. That competition unfortunately has been discontinued. The alternative now offered is an "open problem" competition at the ASC Region 6/7 (western and west coast states) competition in Sparks, NV in February. This has become the de-facto national competition for all of the ASC regions. This is a great opportunity for our students to showcase their talents to schools that are participating such as Auburn U., Boise State U., BYU, Cal State Fresno, Cal State Chico, Colorado State U., MSOE, San Diego State U., USC, and Virginia Tech., ASU, Oregon State U., U of Florida, U of Washington, Texas A&M, and others.

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**Faculty Sponsor:** Emmer, Michael  
**Student Recipient:** Ryan Hammond, Michael Riverso, Kristin Belmore, Chris Weber, John Iaquinto, EJ Maoish and Ron Lucia  
**Abstract:** Each year RWU sends three teams of six students each to the Associated School of Construction (ASC) regional competition held in New Jersey. The basis of the competition is each team is presented with a real project that requires the students to develop real solutions to. Judges come from contractors in the Region 1 area such as Gilbane, Tetra-Tech, Pike, Skanska,
Turner, and Whiting-Turner. Historically our teams have done very well in this competition and last year our design-build team finished second. This was quite an accomplishment since each team was competing with as many as 13 other schools in their respective problem categories. In the past there has been a national competition held by the ASC to allow the winners of each regional competition to compete against each other on a national stage. This competition was a joint effort between the Association of General Contractors (AGe) and the ASC. That competition unfortunately has been discontinued. The alternative now offered is an "open problem" competition at the ASC Region 6/7 (western and west coast states) competition in Sparks, NV in February. This has become the de-facto national competition for all of the ASC regions. This is a great opportunity for our students to showcase their talents to schools that are participating such as Auburn U., Boise State U., BYU, Cal State Fresno, Cal State Chico, Colorado State U., MSOE, San Diego State U., USC, and Virginia Tech., ASU, Oregon State U., U of Florida, U of Washington, Texas A&M, and others.

**Faculty Sponsor:** Emmer, Michael  
**Student Recipient:** David Cameron  
**Abstract:** The topic of renewable energy is gaining momentum on a national and global scale and Construction Managers (CM's) should give consideration to diversifying their target markets to include adding renewable energy projects to their client base. The opportunities for this niche in the Architecture, Engineering, and Construction (AEC) industry are expected to grow and CM's whose mainstay was once constructing office buildings, schools, and other commercial construction projects may want to consider broadening their horizons and understanding the potential financial upside to unique projects such as wind turbines, geo-thermal projects, and solar towers. Additionally, if CM's do decide to include renewable energy projects in their portfolios, it would also be essential to possess the in-house technological expertise and to hire individuals that possess the necessary experience, training, and qualifications to help support these projects. This paper explored those sectors of renewable energy that showed the most promise for increased market share, identified the favorable terms and conditions for success, and investigated the critical factors that drive these new types of markets in the AEC industry.

**Faculty Sponsor:** Pearce, Jennifer  
**Student Recipient:** Sarah Jeanfavre  
**Abstract:** DNA has been observed to be trapped at a convergent stagnation point created by opposite rotating vortices in simulations based on the lattice-Boltzmann method using a bead-spring model for the DNA. Previous work has successfully separated polymers whose length differs by a factor of 2. More precise separation based on length could potentially be achieved. Mastering this technique could allow advancements in developing microfluidic techniques for DNA amplification based on PCR and purification of the PCR product. Additionally, these simulations mimic conditions found in pores of hydrothermal vents, giving hypothesis on the development of life.

**Faculty Sponsor:** Platania, Judith  
**Student Recipient:** a) Kayla Alves; b) Nicole Roberts,
Abstract: a) The use of victim impact testimony has become common practice during the sentencing phase of capital trials (Payne v. Tennessee, 1991). Although constitutionally acceptable, the cross-examination of such testimony is rare due to its potential to worsen defendant perceptions (Paternoster & Deise, 2011). Recently, Arizona has altered its current death penalty statute to deny defendants the opportunity to cross examine victim impact testimony, limiting the Payne decision. In the current study, we investigate the efficacy of cross-examination of victim-impact testimony in the context of sentencing. We predict defendant perceptions will be negatively affected by cross-examination, particularly when offered by a close family member; b) The aim of the current study is to investigate the extent to which undergraduate students attribute specific traits and behaviors to either genetics or their environment. In addition, we will examine the relation between attributional style, self-efficacy, and how individuals explain traits and behavior. Based on the literature in each of these areas we expect that an individual's explanatory style (positive v negative) about the cause of a hypothetical event will be directly related to whether they are responsible for the event, the stable v. unstable characteristics of the event, and the genetic v. environmental explanations for an event.

Faculty Sponsor: Rhyne, Andrew
Student Recipient: a) Shawna Chamberlin; b) Cynthia DeLillo; c) Allex Gourlay

Abstract: a) Copepods have been demonstrated to be an essential primary feed for larval fishes. In particular the tropical copepod Parvocalanus sp. is an ideal species for many marine fish larvae. It is essential in the culture of the triggerfish, Batistes sp., the Catalina goby Lythrypnus daW in our lab as well as numerous species of angelfish Centropyge sp., snappers Lutjanus sp., and other small reef fish. In order to produce enough nauplii to support larval fish, the ideal culturing conditions must be determined. A series of experiments were conducted to model the effect of culture volume on the reproductive output and population abundance of Parvocalanus copepods; b) Marine invertebrates are harvested from natural habitats for the aquarium trade. To decrease pressure on natural populations, aquaculture of popular species is necessary. We have successfully reared marine ornamental caridean shrimp in a recirculating larval system using cylindrico-spherical tanks with a 90% survival rate of larval development into juveniles (post-larvae). Preliminary studies have shown an effect of tank color on larval survival and duration. This experiment aims to analyze the success and length of development of two shrimp species, peppermint shrimp Lysmata wurdemanni and yellow line cleaner shrimp Lysmatella prima in both white and black tanks; c) Native to the Pacific coast of North America, the Catalina goby, Lythrypnus dalli is a moderately popular aquarium species. It has not successfully been reared in captivity in large numbers. Because of their colder temperature requirements and small size, rearing is quite difficult. We have observed a significant mortality event (above 50%) in rearing trials just after larvae undergo flexing. Although the cause remains unknown, this mortality could be attributed to poor water quality, nutrition, and stress. Building on my previous success, I will attempt to determine rearing conditions and protocols that will minimize mortalities during this period.

Faculty Sponsor: Tehrani, Minoo
**Student Recipient:** Audra Armstrong, Bianca Rom and Robert Troy; b) Chelsea Johnston and Linda Sok

**Abstract:** a) The U.S. government has enacted different preference trade programs with developing countries in order to expand their economic outlook and also to deal with other issues, such as illegal trade. Among these programs, the African Growth and Opportunity Act (AGOA) and the Andean Trade Preference Act (ATPA) are considered highly successful programs. This research examines the features of AGOGA and ATPA preference programs and highlights its main goals and objectives. In addition, the paper discusses major obstacles. Furthermore, this study assesses the extent of the success of these programs. The final part of this research explores the future potentials of AGOA and ATPA; b) This research studies the operating environment of China along several dimensions, financial services, local content requirement, market access and human resources. The study examines several trade disputes due to China's discriminatory treatment of non-Chinese companies belonging to the countries that are a member of the World Trade Organization (WTO). In addition, the paper discusses the needed reforms to China's market structure that have the potential of alleviating some of the problems and disputes in trading with China.

**Faculty Sponsor:** Varano, Sean

**Student Recipient:** Ryan Sarasin

**Abstract:** This study explores the prevalence, characteristics, and emotional consequences of cyberbullying among college students. Few studies have been conducted to discover whether cyberbullying presents an issue among college students. This study also examines whether close and secure attachment to others act as a buffer against the emotional consequences of cyberbullying. A sample of Roger Williams University students will complete an online or in-class survey regarding cyberbullying experiences. The results of this study can be used to shed some light on a phenomenon that is still in its infancy and to provide a mechanism that can help guide prevention strategies.

**Faculty Sponsor:** Whitworth, Donald

**Student Recipient:** Kimberly Rakiec

**Abstract:** This study provides preliminary exploratory analyses of individual and peer factors associated with juvenile drug court offenders' readiness to change their alcohol use, marijuana use and unprotected sexual activity in a pilot efficacy trial of a family-based HIV prevention intervention. Findings suggest that greater exposure to negative marijuana-related consequences may be associated with juveniles' increased readiness to change. Greater exposure to negative marijuana-related consequences was associated with an increase over time in juveniles' perceived level of importance and confidence in their ability to change marijuana use. Likewise, more exposure to substance-using peers at baseline was associated with an increase over time in juveniles' perceived level of importance and confidence in their ability to change both alcohol and marijuana use.