Florida Undergraduate Research Conference
Abstract 2015

Aaron D. Clevenger, Embry-Riddle Aeronautical University - Daytona Beach

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FEBRUARY 27-28, 2015

THE FLORIDA UNDERGRADUATE RESEARCH CONFERENCE (FURC)

PRESENTED BY THE OFFICE OF UNDERGRADUATE RESEARCH AT
EMBRY-RIDDLE AERONAUTICAL UNIVERSITY

EMBRY-RIDDLE
Aeronautical University
DAYTONA BEACH, FLORIDA
WELCOME!

Embry-Riddle Aeronautical University, and especially the Office of Undergraduate Research, is thrilled to be hosting the 5th annual Florida Undergraduate Research Conference!

This year, over 225 separate research projects are being presented to more than 475 conference participants. Twenty different colleges and universities, ranging from large public state institutions to small private ones are represented in the research being showcased.

During the conference, you will have an opportunity to attend poster sessions, the graduate school recruitment fair, professional development workshops, and an exciting keynote address by Nicole Stott, ERAU Board of Trustees Member and NASA Astronaut. We encourage you to make the most of your time here!

We extend our heartfelt thanks to those without whom this conference would not be possible. They are listed, by name, in the program.

Again, we welcome you!

Enjoy the conference, and make the most of it!

Catherine Wrobel, Aaron Clevenger, Ed.D, Caroline Day
Ms. Nicole Stott was elected to the Board of Trustees for Embry-Riddle Aeronautical University in March 2012. She currently serves as a member of the Academic and Flight Safety and Education committees.

Stott earned a B.S. in Aeronautical Engineering at Embry-Riddle's Daytona Beach campus in 1987. After joining NASA in 1988, she held various engineering positions at Kennedy Space Center and Johnson Space Center, before her selection for astronaut candidate training in 2000.

In 2009, she was a mission specialist on STS-128 Space Shuttle Discovery — which was transported to the International Space Station (ISS) — to serve as a flight engineer for three months on ISS Expeditions 20 and 21. Among her many duties was a six-hour spacewalk.

Stott’s following mission — STS-133 in 2011 — made history not only as Discovery’s final flight, but also as a landmark event for Embry-Riddle. It was the first time two of the University’s graduates shared a space mission. Stott and Embry-Riddle alumnus B. Alvin Drew were crewmembers for the 13-day mission, which included two spacewalks by Drew, under Stott’s onboard direction. In addition to Stott and Drew, four other Embry-Riddle alumni are current or former astronauts.

The connection between Stott and Embry-Riddle is strong. She is a frequent speaker at Embry-Riddle’s Daytona Beach campus, and a member of the College of Engineering’s Industry Advisory Board. In 2009, she received the Alumni Eagle of Excellence Award. As the guest speaker at the May 2010 commencement ceremony at the Daytona Beach campus, she was presented with the University’s Distinguished Speaker Award.
SESSION 1

SUMMER OFF-CAMPUS RESEARCH EXPERIENCES
KIMBERLY SCHNEIDER (UNIVERSITY OF CENTRAL FLORIDA)
LOCATION: IC 101
Summer is a great time to participate in research and there are numerous programs available to students away from their home institution. Summer programs are available at 100s (maybe 1000s) of universities and research institutions. Opportunities are available nationally and internationally and many provide a stipend, travel costs, housing, and/or board. Applications open in late fall and deadlines occur from early January through the end of March. Opportunities exist for all majors but more are available for students in the science and engineering areas. Fall and spring semester opportunities also exist. This workshop will provide an overview of these opportunities, information on how to create a strong application, and resources to help students through the process.

TAMING THE RESEARCH CYCLE
NICKY AGATE, ERIC VAN GORSEN, AND ANDREW NAGY (PROQUEST)
LOCATION: COAS 126
In this workshop, attendees will learn how to use Flow, ProQuest’s reference and citation manager, to find, organize, read, annotate, and share their research. Flow’s integration with Google Docs allows users to collaborate at the writing stage of the research cycle, while its add-on for Word provides powerful citation management in a more traditional word processing environment. Interested attendees will also be introduced to Pivot, ProQuest’s dating service for researchers and funding. Pivot’s powerful user profile system matches researchers to grants whose requirements they meet.

PRACTICING THE RESPONSIBLE CONDUCT OF RESEARCH AS UNDERGRADUATES
FLONA REDWAY, AND TERESA PETRING, (BARRY UNIVERSITY)
LOCATION: COAS ROOM 204
Scientific research is built on a foundation of trust. It is essential that students know the shared values in science and the social accountability associated with the work of the scientist. They need to understand the importance of following the codes of conduct of research. This interactive presentation will draw awareness to conflicting issues associated with scientific activities and the ethical conduct of research, starting at the undergraduate level. Case studies will draw awareness to potential situations and circumstances in which students and faculty may find themselves as they navigate a mentor-protégé relationship. In this interactive workshop, we will discuss potential solutions to problems and possible outcomes.

INNOVATIVE METHODS TO CONDUCT QUALITY RESEARCH WITH LITTLE TO NO FUNDING
SCOTT HERBER (EASTERN FLORIDA STATE COLLEGE)
LOCATION: COAS ROOM 205
Research and academia are historically based in tradition. It is this tradition that can be a friend and a foe to a budding researcher. Traditionally, funding for research is acquired from Federal, State, and local governmental agencies through the granting process. As research has progressed and the availability of funds have been significantly reduced, the competition for those monies has increased exponentially. The average student is finding themselves competing against seasoned researchers for slivers of funds. This unbalanced process with little alternative direction from mentors has created discouragement among students to pursue any form of research. This workshop intends to break away from the traditional grant funding mindset and enlighten students on the varying alternative avenues of accomplishing their research goals with little to no funding while maintaining the quality and integrity of the research.

SESSION 2

SHOULD I STAY OR SHOULD I GO? HOW TO KNOW IF YOUR RELATIONSHIP WITH YOUR FACULTY MENTOR IS IN JEOPARDY!
LOUANNE HAWKINS AND JUDITH OCHRIETOR (UNIVERSITY OF NORTH FLORIDA)
LOCATION: COAS 125
A student-mentor relationship requires compatibility of several factors, including interest in the research subject, work ethic, and personality. Because of this, as students look for research mentors, they should ask questions of the potential mentor about the expectations and obligations related to the project. While many of these relationships are successful, some become strained over time and the student and faculty member must determine whether to continue or part ways. Join us for this Jeopardy style game as we explore scenarios and circumstances in which students and faculty may find themselves as they navigate a mentor-protégé relationship. In this interactive workshop, we will discuss potential solutions to problems and possible outcomes.

STUDENTS AS UNDERGRADUATE RESEARCH AMBASSADORS: PERSPECTIVES FROM TWO UNIVERSITIES
NICHOLAS COLES, NICHOLAS JAMES, AND JEREMY TRAN
(UNIVERSITY OF CENTRAL FLORIDA)
SHALONDRIA SEARS AND MICHAEL MILLER
(FLORIDA ATLANTIC UNIVERSITY)
LOCATION: IC 101
At both the University of Central Florida (UCF) and Florida Atlantic University (FAU), a select group of students are chosen each year to become research ambassadors for their universities. Together, they work towards increasing involvement, inclusion, and the quality of research at their respective institutions. In addition to improving their university’s overall research and educational reputation, these ambassador groups also give the selected students the opportunity to develop leadership skills, acquire a more comprehensive understanding of the research environment, and make a positive impact on their peer community. Despite the growing success of these programs, research ambassador programs do not exist at many Florida collegiate establishments. Furthermore, many of the highly qualified prospective applicants are unaware that such an opportunity exists, or could potentially exist, within their academic environments. The overall goal of this workshop will be to discuss the critical role that undergraduates can play in fostering research involvement, inclusion, and quality at their respective universities. In addition, student research ambassadors from both UCF and FAU will share their own experiences as research leaders and discuss their respective frameworks and activities that their ambassador groups have adopted to strengthen the research environment at their institution.
LESSONS I LEARNED DURING MY JOURNEY THROUGH GRADE SCHOOL: HOW CHOOSING THE RIGHT PHD MENTOR IS CRUCIAL FOR SUCCESS

J. MARCELA HERNANDEZ (THE OHIO STATE UNIVERSITY)

LOCATION: COAS 204

Undergraduate students, who are planning to go to graduate school, often focus on the research interests of prospective advisors/mentors, instead of mentoring style. This can lead to a mismatch that will cause slow progress and delayed graduation. Good scientific mentorship is absolutely essential for success in STEM careers and the absence of it is often the reason for the leaky pipeline in STEM.

Arguably, students and postdocs should focus on the mentoring quality of prospective mentors instead of research interest. A good mentor will motivate mentees and get them whatever research they are doing. However, inexperienced first year students think they are not in a position that would allow them to figure out what are the characteristics of a good mentor for them. Information about how to pick a good graduate advisor/mentor will be discussed by comparing good and bad mentorship experiences. Strategies for making better informed advisor/mentor choices will be outlined.

BREAKING THE BLOCKS: HEURISTICS TO KEEP YOU IN RESEARCH FLOW

JENNIFER SEITZER (ROLLINS COLLEGE)

LOCATION: COAS 205

Doing research is a cognitive activity that is different from learning, studying, and teaching previously discovered information. As researchers, we constantly look at the world anew and consider other possibilities. We are keen observers as well as healthy skeptics. This workshop will both didactically and experimentally present techniques that bring us into flow—a highly focused state of mind that fosters the absorption and creation of new information. The workshop will be organized as follows: (1) introduction to flow, (2) participatory activity to illustrate flow, (3) writer’s block and other possibilities. We are keen observers as well as healthy skeptics. This workshop will both didactically and experimentally present techniques that bring us into flow—a highly focused state of mind that fosters the absorption and creation of new information. The workshop will be organized as follows: (1) introduction to flow, (2) participatory activity to illustrate flow, (3) writer’s block and other possibilities. This can lead to a mismatch that will cause slow progress and delayed graduation. Good scientific mentorship is absolutely essential for success in STEM careers and the absence of it is often the reason for the leaky pipeline in STEM.

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POSTER SESSION 1: SATURDAY 8:30-9:30AM

1. Characterization of autologous colony-forming cells in an Atlantic damselfish. Bayan Altman, Barry University
2. Co-doping of carbon nanotubes for aerospace applications. Keith Akreus, Santit Jitjaiwal, Kevin Leong, Jose Paz-Larranba, and Vignesh Rolin, Embry-Riddle Aeronautical University
5. The effects of art therapy on the alpha waves of autistic children. Christina Baxter, Andrea Hassler, Chris Conner, Kelsey Taber, and Vanessa Rowan, Palm Beach Atlantic University
6. Rotational diffusivity of nanoparticles and biological fluid viscosity in concentrated protein solutions. Donald Bajen, University of Florida
8. Activity-dependent regulation of calcium and ribosomes in the chick cochlear nucleus. Cody Call and Richard Hyson, Florida State University
10. Fussied Ignan, enteroactinic, revealed to produce apoptotic activity in large cell lung cancer cells. Jordan Cockfield, Stetson University
11. A psychophysiobiological investigation of the paradoxical effects of walking happiness. Nicholas Coles, University of Central Florida
13. Can we trust food labeling? Jessica Crews and Joshua Gomza, Santa Fe College
15. Photopletysmography and heart rate variability for the prediction of preclampsia. Mariam del Rio, University of Florida
17. Effect of epigallocatechin gallate in inducing regulated cell death in H460 lung cancer cells. Kate Ellis, Stetson University
18. Potential algaeic applications of the Brazilian peppertree. Morgan Enoch, Dylan Myers, and Ashley Spring, Eastern Florida State College
19. Dial paranting of the effects of vermouthications on coral growth. Morgan Farrel and Larnine Jacobson, University of Florida; Elizabeth Hamman and Craig Odenberg, University of Georgia
20. Genomic studies of HLA region gene expression during pseudomonas aeruginosa infection. Daniel Florit and Susmita Mustafi, Florida International University
21. Effects of beach CO2 levels on sea turtle hatching success. Kayla Golbasi, University of Florida
22. Applications of superconducting nanowire photodetectors. Liand Liang, Sean Kope, Jesse Adams, and Daniel Santavico, University of North Florida
23. Educational impact on extending the academic calendar for children with special needs. Jessika Guevara, University of Tampa
24. College students’ attitudes toward plagiarism: No bias here! Sam Hakwin, Jared McNiel, and LouAnne Hawkins, University of North Florida
25. Your brain on graphic novels...and what your heart says. Cassie Haynes, Patrick Smith, and Emily Breathaw, Florida Southern College
26. DeLand food bank clientele perceptions of food and an assessment of their consumption and possible effects on their overall health. Kelsey Hoblick and Laura Gunn, Stetson University
27. Grooming behavior in spider crab, Lophia dubia. Jace Jedicka and Jennifer Wortham, University of Tampa
28. The impact of stereotype threat, rumination, and heat rate variability amongst ethnic minorities. Nicholas Joseph and Dewayne Williams, University of Tampa; Julian Koenig and Julian Thayer, The Ohio State University
30. Empire and sport in British trench papers of WWII. Kyra Kinman and Elizabeth Stice, Palm Beach Atlantic University
31. The adaptation of Klebsiella pneumoniae to increasing concentrations of cefazolin through differential outer membrane protein expression. Nghi Lam, and Terri Ellis, University of North Florida
32. Accelerating HIV eradication by defining how patients’ clinical, biological, and socio-demographic factors contribute to the size of the HIV reservoir. Sergine Loeaux, Florida Atlantic University; Remi Fromentin, Franck Dupuy, and Jessica Breton, Vaccine and Gene Therapy Institute of Florida; Jean-Pierre Routy, McGill University Health Centre; Steven Deeks, University of California, San Francisco; Moti Ramgopal, Midway Immunology and Research Center; Rebeca Borch and Nicolas Chomont, Vaccine and Gene Therapy Institute of Florida; Rafick-Pierre Sidkai, Case Western Reserve University

34. The role of child life specialists in meeting the needs of children with chronically ill siblings. Jenna Mathis, University of Florida.

35. Evaluation of WRF forecasts of severe weather environments against observed updraft data from the Mississippi Predictability Experiment. Brian Matilla, Florida International University; Russ Schumacher, Colorado State University – Fort Collins; Michael Congio, National Severe Storms Laboratory; Fanayoo Kung, University of Oklahoma Norman Campus.


37. Proper distractions: Proper name distractors facilitate name retrieval. Jack Möller, University of Florida.

38. Student projects in support of NASA’s extreme environment mission operations (NEEMO) program. Carolyn Newton, Victoria Bakley, Ashley Hollis-Bussey, Holly Abemethy, and Jason King, Embry-Riddle Aeronautical University.


40. Proper distractions: Proper name distractors facilitate name retrieval. Jack Möller, University of Florida.

41. Inferences about input quality for the discovery of the Higgs boson coupling to dimuons. Brandon Regney, Darin Acosta, and Mark Ricklick, Embry-Riddle Aeronautical University.

42. A study to enhance the sensitivity for the discovery of the Higgs boson coupling to dimuons. Brandon Regney, Darin Acosta, and Justin Hugon, University of Florida.

43. The effects of masculinity and religiosity on the quality of life of Guillen, Yash Mehta, and Mark Ricklick, Embry-Riddle Aeronautical University.

44. Inferior longitudinal fasciculus and literacy skill in young children. John Vastola, Amy Holtz, and Mary Martinasek, University of Florida.


46. The effects of masculinity and religiosity on the quality of life of Guillen, Yash Mehta, and Mark Ricklick, Embry-Riddle Aeronautical University.

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Poster Session 3: Saturday 2:30-3:30pm

1. Investigating the risk factors for depression among Latino immigrants in the community of Florida. Elizabeth Altamirano, Charles Negy, Stacey Dunn, and Alma Arcon, University of Central Florida
2. Gender, sexuality, and performance in Margaret Cavendish’s The Convent of Pleasure. Nazeer Bacchus, University of Central Florida
5. Self-monitoring differences in views of current and former romantic partners. Grace Weekley, Jasmine Hamilton, R. Lee Gainey, and Christopher Leone, University of North Florida

Poster Titles & Authors

12. The utilization of adeno-associated virus (AAV) vectors for use in the immunotherapy of prostate cancer. Munjal Pandya, University of Florida
13. Stable isotope evidence for the geographic origins and military migrations of Napoleonische soldaten from a mass grave in Wilhus, Lith- uania. Serenella Peter, University of Central Florida
14. Florida’s Freedman’s Bureau during reconstruction, 1865-1872. Joshua Rege, University of Florida
15. Memories for non-normative events: Emerging adults’ narratives of a brush with death. Chelsea Fordham, University of Florida
16. Understanding the role of DNA sequence in replication timing. Molly Gordon, Florida State University
17. Providing proof of concept for strengthening new natural products research group. Ceyda Grant, Carly Chapman, and Mireille Ale- man, Palm Beach Atlantic University
18. Perceptions on racial profiling by police: A qualitative approach in Jacksonville. Stephanie Halcomb, University of North Florida
20. Making sense of intimacy. Eve Hayd, Stetson University
21. The mechanisms behind the geometric morphometric variations of the Asian citrus psyllid, Daprophoria citri (Hemiptera: Liviidae) Mor- gan-Hush and Thompson, Paris, University of Florida
22. Cancer lines and radiotherapy. Geena Idefonse, University of Central Florida; John Lowengrub, University of California – Irvine
23. Genome organization of genes activated in early embryogenesis and development within the human sperm nucleus. Elizabeth Jordan and Dimitrios Loannou, Florida International University
24. The effect of BDNF over-expression on adult neurogenesis and seizure vulnerability. Daniec Joseph, Florida Atlantic University
25. Synthetic jet actuator design. Robert Keane, Embry-Riddle Aeronautical University
26. Infrared properties of monolayer and bilayer graphene. Sean Krupp and Daniel Santavicca, University of North Florida
27. Augmentative and alternative communication interventions for children with complex communication needs. Linda Lavadía and Jennifer Kent-Walsh, University of Central Florida
29. Benzothiazole-mediated synthesis of 7-membered cyclic dipep- tide. Jocelyn Macho, Kharthi Ha, University of Florida
30. Biodiesel production via methanol tolerant lipase transesterification from Protothec a mirabilis in methyl acetate. Alaina McDonnel, Jake Altar, Dimitrius Caret, and Donna Withrow, University of Tampa
31. Induction of SOD1 aggregation in vitro through the exogenous administration of diabetic spinal cord homogenates. Benjamin Mc- Mahon, University of Florida
32. Study on the effect of the catalyst on the physical parameters of carbon spheres. Tejas Mehta, Jovita Pinto, Keith Alvarez, Samit Jaiswal, Kevin Leong, Jose Pui-Liwan, and Victoria Rolim, Embry-Riddle Aeronautical University
33. The role of Genstat in cell cycle arrest and/or apoptosis in Jur- k-7 T cell Leukemia. Lauryn Mohler, Stetson University
34. University student social policy opinions: An analysis of explana- tory factors. Julio Montanez, University of Central Florida
35. Extraction and chemical analysis of ushnik in Schinus terebinth- ifolius. Dylan Myers, Paige Twiddy, Ashley Spring, and Cristina Oro- pesta, Eastern Florida State College
37. An analysis on the decline of authoritative powers of the Papacy and its application to challenges to the P-5. David Ocampo, Florida International University
38. Doing a favor leads to increase in support for subsequent pro-environmental behaviors. Dustin Oulton, Nicole Law, Sebastian Ray, Rebecca Cameron, and Heather Truelove, University of North Florida
40. Bound states in the radiation continuum for periodic structures. Joseph Park, Christopher Moore, and Sergei Shabanov, University of Florida
41. Learning to cope: An analysis of distress levels among chron- ically ill women receiving a couple and relationship education (CRE) intervention. Taylor Peoples, University of Central Florida
42. Secondary data analysis of fragile families: Looking at the dif- ferences between broken and together families. Nicholas Reacinti, University of Central Florida
43. Attention bias modification treatment effects on children’s negative interpretation biases. Andrey Roke, Florida International University
44. Development of the novel adeno-associated virus (AAV) vectors with selective tropism to human cancer cells. Rana Sayroo, Univer- sity of Florida
45. New tepanusoid from the Caribbean gorgonian Pseudopetropog- gia acerosa. Paul Soesa, Florida Atlantic University
46. Presence and immersive tendency in modern VR. Nathan Son- nenfeld, Matthew Meyers, Tyler Mullis, and Freddy Rinson, Embry-Riddle Aeronautical University
47. Comparing the relationship satisfaction and individual distress between low-income couples in first-time marriages and subse- quent marriages. Luke Strawn, University of Central Florida
49. In vitro transcription of probes for the in situ detection of PDZ Polycomb 2 (dbrd) expression in zebrafish (Danio rerio) embryos. Bertina Tuluma and Chucu Glen, Barry University.

50. Rajas’ renaisssance tragedyomedy: Celestina as an illustration of the lasting social impact of literature. Rachael Tobillo, University of Central Florida.

51. Is there evidence to support the use of the popular “party” exercise to demonstrate Holland’s theory? Dennis Tummer, University of Central Florida.

52. High-Speed video analysis of the escape behavior in the crayfish Pacinacaris alieni. Elizabeth Virgl and Rebecca Waggett, University of Tampa.


Poster Session 4: Saturday 3:45-4:45pm

1. Molecular phylogenetics of two Florida watersnakes: Nerodia clarkii and Nerodia fasciata. Lindsay Arick, Jason Hickson, Jason Strickland, and Christopher Parkinson, University of Central Florida.

2. Indirect potentiometric detection of DNA hybridization using a flow-through junction system. Stephanie ARMAS, Kathryn Young, Geaca Borchardt, and Karin Torres, University of Central Florida.

3. Assessing levels of religiosity, paranormal beliefs, and death and the afterlife. Kim McAllister, Alexander Ross, University of Central Florida; and Ashley Bald, University of Idaho.

4. Fabrication of single grain and multiple grain focused ion beam milling templates. George Blaue, Marissa Buck, and Juan Nino, University of Florida.


6. The relationship between drug use and risky sexual behavior. Paige Bond, Alissa Gebben, Brandon Harpold, Christina Higgins, Maryssa Ellison, and Suzanne Cardona, Palm Beach Atlantic University.


8. Can neurofeedback training lead to changes in functional brain connectivity? Nicole Drummond, Mohit Rana, and Ranganathan Srinivasan, University of North Florida.


11. Determination of surfactant solution viscosities with rotational viscometer. Remelisa Esteves, Nonso Onukwuba, and Birco Dikici, Embry-Riddle Aeronautical University.

12. Subcellular localization of Thistle’s murine encephalomyelitis virus. Maximilian Ganz and Eric Freundt, University of Tampa.


15. Incorporating creativity into one’s daily life to generate and sustain a healthy lifestyle. Cara Hazal, University of Tampa.


17. Exploring a relationship between social anxiety disorder and bilingualism: Nicholas James, University of Central Florida.

18. Generation of rhodopsin cDNA constructs with mutations that cause the blinding disease retinitis pigmentosa. Amber Johnson, Maryssa Ellison and Suzanne Cardona, Palm Beach Atlantic University.


20. Optimal meteorological conditions at selected NASCAR facilities. Carolyn Kies, Randall Bary, and Christopher Herbstler, Embry-Riddle Aeronautical University.


23. The other face of Cuban medical diplomacy. Dianelis Lazo, Florida Atlantic University.

24. The Female Man and The Handmaid’s Tale: A reflection of the woman’s experience. Victoria League, University of Central Florida.


27. Infrared spectroscopic study of the hydrogen bonding associations through 3-6 band intensities in isopropanol-water and tert-butanol-water mixtures. Tegan McKean and Khaliq Ahmed, Lynn University.


29. The parametric design of a computer task based on ergonomics. Teryn Miller and Nick Cambria, Embry-Riddle Aeronautical University.

30. Feeding preference behaviors of the sacoglossan sea slug Elysia claria. Kayla Madinich and Michael Middlebrooks, University of Tampa.

31. Cardiac response to thermal stimuli in Burnus pythons. Maria Mylack and Ashley Spring, Eastern Florida State College; Shenri Emre, Florida Institute of Technology.

32. Responsive sea-based logistics delivery systems. Catherine Ninah, University of Central Florida.


34. Solar Tracker, Erik Parker and William Griffin, Embry-Riddle Aeronautical University.

35. Ethnological study of endocardialism and related folklore of the Yanomami, Wari, and Agoncho. Thuy-Linh Pham, Erin Trumble, and Allessa Ponsavarin, Florida State University.


37. Some new non-cryogenic fuels. Ila Toi, and Shengli Zou, University of Florida.

38. The effect of misognistic humor on the perception of women. Natasha Vashist, University of Central Florida.


40. Conditions affecting the wound healing process of adult Danio rerio wildtype zebrafish. Kevin Williams, Victoria Hoeleisner, and Jessica Ricketts, Barry University.

41. High-Resolution abundance analysis of stars with small planets discovered by Kepler. Drake Williams, Simon Schuler, and Zachary Vaz, University of Tampa.

42. Novel cyclic peptides targeting HIV TAR RNA to block Tat binding. Xianrong Wong and Xin Qi, University of Florida.

43. Simulating the Magnus effect on a soccer ball. Jordan Yarman, Valencia Community College.

44. Optimization of the processing of thermally deposed chalcog- enide films for direct laser writing of targeted nanostructures. Ger- ald Richardson, Casey Schwartz, Chris Grabill, Anna Lewis, Stephen Kuebler, Beno Gleason, Kathleen Richardson, Alexei Pogrebnyak, and Theresa Mayer, University of Central Florida.

45. Providing further insight into the binding of antiparasitic hestro- cyclic diatomis to DNA using restriction enzyme activity assays. Diana Rodriguez, Florida International University.


47. Single cell force spectroscopy to characterize the interaction between two PIEM1 domains and monocoty. Shalondria Sears, Florida Atlantic University.


49. Sowing the seeds of dishonesty. Heather Strobel and Dennis Tummer, University of Florida.

50. Does artificial selection for cold hardness also drive growth rates in the fly Drosophila melanogaster? Andre Speijer Sigal, University of Florida; Caroline Williams, University of California - Berkeley; The- odore Morgan, Kansas State University; Darai Hahn, University of Florida.

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53. The transfer of mand-to-tact training: Acquisition rates examined in the fly Drosophila melanogaster, Jersey. Andrea Szejner Sigal, University of North Florida.


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63. The parametric design of a computer task based on ergonomics. Teryn Miller and Nick Cambria, Embry-Riddle Aeronautical University.

64. The effect of misognistic humor on the perception of women. Natasha Vashist, University of Central Florida.

65. Sleep patterns and fatigue in isolation and confinement. Erica War- kows, Antoine Juhe, Cheryl Iwag, Carolyn Newton, Elise Reeves, Carl- os Gerardo, and Chu-Min Lee, Embry-Riddle Aeronautical University.


67. High-Resolution abundance analysis of stars with small planets discovered by Kepler. Drake Williams, Simon Schuler, and Zachary Vaz, University of Tampa.

68. Novel cyclic peptides targeting HIV TAR RNA to block Tat bind- ing. Xianrong Wong and Xin Qi, University of Florida.


70. The transfer of mand-to-tact training: Acquisition rates examined in two children diagnosed with Autism spectrum disorder. Vanessa Yanek, Florida International University.

71. Investigating the effects of stress on cognitive and emotion- al moral decision making. Jessica Adams, Tracy Alloway, and Lori Lange, University of North Florida.
Are you interested in becoming a
WEB DEVELOPER/ADMINISTRATOR?

Florida State University’s MSIT Program
will help you reach your career goals.

What is a Web-Developer/Administrator?
A web developer creates the look, layout and function of websites using code, graphics and images created by other members of the development team. A team of developers work to create the interactive and visual elements of a website.

Sample Coursework
Computer Programming
User Interface Design
Web Development
Web Standards
Web Content Management
Web Analytics

Core courses for Web Developers and Administrators

Web Developer/ Administrator

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What is a Social Media Manager?
Social media managers operate in a fast-paced, evolving environment. They develop and implement social media strategies for organizations and non-profits. Social media managers work to leverage social media tools to engage audiences, prioritize content, and monitor public opinion.

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Advocacy, Promotion, and Marketing
Social Media Management

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Web Developer/ Administrator

Are you interested in becoming a
SOCIAL MEDIA MANAGER?

Florida State University’s MSIT Program
will help you reach your career goals.

What is a Social Media Manager?
Social media managers operate in a fast-paced, evolving environment. They develop and implement social media strategies for organizations and non-profits. Social media managers work to leverage social media tools to engage audiences, prioritize content, and monitor public opinion.

Sample Coursework
Advocacy, Promotion, and Marketing
Social Media Management

Core courses for Social Media Managers

Social Media Manager

Where can a MSIT with a concentration in Social Media Management take me?


The 2016 Florida Undergraduate Research Conference will be held in the heart of downtown Tampa at the campus of The University of Tampa on Feb. 26-27, 2016.

UT’s 105-acre residential historic and modern campus – which features Plant Hall, a National Historic Landmark built in 1891 – provides an ideal academic setting, and is within walking distance from many of Tampa’s downtown activities.

For more information about FURC 2016: info@FURC.org