



**April 8, 2019**

**FIU Wellness & Recreation Center**

**10:00AM – 7:00PM**

**Florida International University  
Modesto A. Maidique Campus**

## **Welcome to the 2019 Conference for Undergraduate Research at FIU**

Undergraduate research is one of the pillars for student success. Every student should have an opportunity to engage in meaningful research during their time at FIU. The Conference for Undergraduate Research at FIU is a university-wide showcase open to FIU students from any major to show off their work. It is one of the largest multi-disciplinary conferences of its kind in the Southeast.

This year, students will present over 200 posters and will share their work during this one-day event. Students from local high schools will also be attending the conference to see what our undergraduates are doing in labs, working groups, and in the field.

The 2019 Conference for Undergraduate Research at FIU is organized by the Honors College on behalf of the university. Research is at the core of our mission. Almost every one of our students engage in significant research during their time at Honors, many through the Advanced Research and Creativity in Honors (ARCH) programs that helps students find research mentors at FIU. In addition to the conference, Honors sponsors the new undergraduate research hub, a searchable website where students can search for research opportunities at FIU and at institutions around the world.

Special thanks to units and individuals who provided their support: Sabrina Rosell, SGA President; Regina Bailey, FIU Arts Senior Project Manager; Amy Reid, Program Coordinator for MARC U\*STAR; Isabela Corzo, Program Coordinator for the McNair Scholars Program; Dr. Alla Mirzoyan, Program Director for the McNair Scholars Program and Andrea Green, Project Lead for FIU Department of Psychology.

I would also like to thank Provost Kenneth Furton for his support for undergraduate research at FIU.

Juan Carlos Espinosa  
Dean, Honors College

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# Schedule of Events

April 8, 2019

## *FIU Wellness & Recreation Center*

10:00 AM – 12:00 PM	Poster Session #1 in FIU Wellness & Recreation Center
12:00 PM – 2:00 PM	Poster Session #2 in FIU Wellness & Recreation Center
2:00 PM – 4:00 PM	Poster Session #3 in FIU Wellness & Recreation Center
5:00 PM – 7:00 PM	CURFIU Awards Reception



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**Occupational Therapy: Moving toward meaningful and independent living**

FIU Occupational Therapy's entry-level Master of Science in Occupational Therapy (MS-OT) program prepares graduates by emphasizing evidence-based practice, interdisciplinary collaborative learning, research, cultural awareness, fieldwork engagement and leading technology so you can develop effective solutions that facilitate participations for the people we serve.



## CURFIU 2019 Judges

1. Sadiq A. Abdullahi  
*College of Arts, Sciences and Education*
2. Anthony Abrahao  
*College of Engineering and Computing*
3. Matthew Acevedo  
*Honors College*
4. Sandra Adorno  
*College of Communication, Architecture and the Arts*
5. Irma Alonso  
*Steven J. Green School of International and Public Affairs*
6. Haytham R. Al-Rabeah  
*College of Communication, Architecture and the Arts*
7. Elias Alwan  
*College of Engineering and Computing*
8. Ben Amick  
*Robert Stempel College of Public Health and Social Work*
9. Diego Salazar Amoretti  
*College of Arts, Sciences and Education*
10. Anabelle Andon  
*Herbert Wertheim College of Medicine*
11. Robert J.L. Archer  
*Steven J. Green School of International and Public Affairs*
12. Monique A. Archibald  
*Florida International University*
13. Trinidad Arguelles  
*College of Arts, Sciences and Education*
14. Carmen Arostegui-Karshis  
*Steven J. Green School of International and Public Affairs*
15. Ivanessa M. Arostegui  
*Steven J. Green School of International and Public Affairs*
16. Elio L. Arteaga  
*College of Communication, Architecture and the Arts*
17. Rokeshia R. Ashley  
*College of Communication, Architecture and the Arts*
18. Anthony Atwood  
*Steven J. Green School of International and Public Affairs*
19. Lorene P. Bauduy  
*College of Communication, Architecture & The Arts*
20. S.E. Beladi  
*College of Engineering and Computing*
21. Kacee Belcher  
*College of Arts, Sciences and Education*
22. Jason Bell  
*Honors College*
23. Elisabeth Beristain-Morales  
*College of Business*
24. Federico Bonacossa  
*College of Communication, Architecture and the Arts*
25. Yasbel Acuna Borrero  
*College of Arts, Sciences and Education*
26. Emmanuele Archange Bowles  
*College of Business*
27. Ellen Brown  
*Nicole Wertheim College of Nursing and Health Sciences*
28. Valentina Bruk-Lee  
*College of Arts, Sciences and Education*
29. Konstantin Bukhryakov  
*College of Arts, Sciences and Education*
30. Carlos Cabrera  
*College of Engineering and Computing*

31. Jason Calloway  
*College of Communication,  
Architecture and the Arts*
32. Lajhon Campbell  
*College of Arts, Sciences and  
Education*
33. Agatha Caraballo  
*Steven J. Green School of  
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34. Alessandro Catenazzi  
*College of Arts, Sciences and  
Education*
35. Linda Chamorro  
*College of Communication,  
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36. Cristy Charters  
*College of Engineering and  
Computing*
37. Priscilla Chaves  
*Herbert Wertheim College of  
Medicine*
38. Can Chen  
*Steven J. Green School of  
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39. Thomas J. Cieslak  
*College of Arts, Sciences and  
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40. Ellen G. Cohn  
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41. Mariceli Comellas  
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and Health Sciences*
42. Nicole Cook  
*College of Arts, Sciences and  
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43. Roxana Corradino  
*College of Communication,  
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44. Brandi Coverson-Ridore  
*College of Communication,  
Architecture and the Arts*
45. Grisel d'Elena  
*Honors College*
46. Al. K. Davis  
*College of Arts, Sciences and  
Education*
47. Andrea del Pino  
*Florida International University*
48. Nelson De La Rosa  
*College of Arts, Sciences and  
Education*
49. Veronica Diaz  
*College of Arts, Sciences and  
Education*
50. Jaya Dofe  
*College of Engineering and  
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51. Remy Dou  
*College of Arts, Sciences and  
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52. Travis Dozier  
*Florida International University*
53. Kristin Elink-Schuurman-Laura  
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54. Maria Elliott  
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55. Frank Wensheng Fan  
*Florida International University*
56. Rene Ferro  
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57. Daniela F. Foerch  
*College of Arts, Sciences and  
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58. J. Chris Ford  
*College of Engineering and  
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59. Jose Gabilondo  
*College of Law*
60. Uma Gadge  
*College of Arts, Sciences and  
Education*
61. Ciprian Gal  
*College of Arts, Sciences and  
Education*
62. Alan Garcia  
*Chaplin School of Hospitality and  
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63. Orlando J. Garcia  
*College of Communication,  
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64. Mohamed K. Ghumrawi  
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66. Deana Goldin  
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*College of Law*
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70. Christopher Goslin  
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71. Florence Greer  
*Robert Stempel College of Public  
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72. Amy Hyman Gregory  
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73. Shane Gunderson  
*College of Communication,  
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74. Kathleen Guy  
*College of Arts, Sciences and  
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75. Robert Hacker  
*Honors College/StartUP FIU*
76. Dr. Mary Haley  
*College of Arts, Sciences and  
Education*
77. Shahid Hamid  
*College of Business*
78. Jean L. Hannan  
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and Health Sciences*
79. Erika Harlitz-Kern  
*College of Arts, Sciences and  
Education*
80. Lindsay Head  
*College of Arts, Sciences and  
Education*
81. Henry Henao  
*Nicole Wertheim College of Nursing  
and Health Sciences*
82. Sean Hermanson  
*College of Arts, Sciences and  
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83. Ileana Hernandez  
*College of Arts, Sciences and  
Education*
84. Magnolia Hernandez  
*Robert Stempel College of Public  
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85. Lenis Miguel Hernandez  
*College of Engineering and  
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86. Ivette Hidalgo  
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87. Johanna Hodgson  
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88. Monica Strauss Hough  
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92. Amy Kahrman Huseby  
*College of Arts, Sciences and  
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93. Glenn Hutchinson  
*College of Arts, Sciences and  
Education*
94. Boubakari Ibrahimou  
*Robert Stempel College of Public  
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95. Flavia Iuspa  
*College of Arts, Sciences and  
Education*
96. Jennifer Rose Ivey  
*College of Communication,  
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98. Abdy Javadzadeh  
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102. Dr. Kamal Kadel  
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*FIU Online*
118. Anna Leimberg  
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*College of Arts, Sciences and Education*
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*College of Communication, Architecture and the Arts*
121. Sandi Logan-McKibben  
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124. Xuan Lv  
*College of Engineering and Computing*
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126. Peter A. Machonis  
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127. Pete E. Markowitz  
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128. Maria Ines Marino  
*College of Communication, Architecture and the Arts*



129. TJ Marston  
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130. Christine Martorana  
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131. Elizabeth Marsh  
*College of Communication,  
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132. Dr. Keisha McIntyre-McCullough  
*College of Arts, Sciences and  
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133. Angela M. Medina  
*Nicole Wertheim College of Nursing  
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134. Martha M. Meyer  
*College of Arts, Sciences and  
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135. Audrey P. Miller  
*Nicole Wertheim College of Nursing  
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136. Alla Mirzoyan  
*Florida International University*
137. Sara Moats  
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138. Eduardo Monteiro  
*College of Engineering and  
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139. Mark Joseph Mooney  
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140. Melanie Morales  
*College of Arts, Sciences and  
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141. Valerie Morgan  
*Undergraduate Education*
142. Sabyasachi Moulik  
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143. Michael Moura-Kocoglu  
*College of Arts, Sciences and  
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144. Esperanza Muino  
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145. Mubarak Mujawar  
*College of Engineering and  
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146. Carmen Muller-Karger  
*College of Engineering and  
Computing*
147. Leonard Nash  
*College of Business*
148. Dr. Eliza Nelson  
*College of Arts, Sciences and  
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149. Leslie Nisbet-Gonzalez  
*College of Arts, Sciences and  
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150. Yuka Nishikawa  
*College of Business*
151. Nicholas J. Oehm, Jr.  
*College of Arts, Sciences and  
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152. Cristina Palacios  
*Robert Stempel College of Public  
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153. Yvonne D. Parchment  
*Nicole Wertheim College of Nursing  
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154. Julia Parker  
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155. Carlos M. Parra  
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156. Mary Lou Pasternac  
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157. Valerie L. Patterson  
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161. Albena Petrus  
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162. Yselande Pierre  
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163. Nipesh Pradhananga  
*College of Engineering and Computing*
164. Rene Price  
*College of Arts, Sciences and Education*
165. Daniela Radu  
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166. Jean “Muteba” Rahier  
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167. Neil Ramsay  
*College of Communication, Arts and the Architecture*
168. Bethany Reeb-Sutherland  
*College of Arts, Sciences and Education*
169. Keith D. Revell  
*Steven J. Green School of International and Public Affairs*
170. Maria Reid  
*College of Arts, Sciences and Education*
171. Robinson Reyes Pena  
*College of Business*
172. Shabnam Rezapour  
*College of Engineering and Computing*
173. Mariselly Rivero  
*Honors College*
174. Rosa Roche  
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175. Cinthya C. Rojas  
*College of Business*
176. Nanett A. Rojas  
*Honors College*
177. Deodutta Roy  
*Robert Stempel College of Public Health and Social Work*
178. Arif Mohaimin Sadri  
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179. Meer Nafis Safa  
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180. Rohini P. Samani  
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181. Hortensia Sampedro  
*Honors College*
182. Vincent Sanchez  
*College of Engineering and Computing*
183. Robert C. Sandrock, Jr.  
*Nicole Wertheim College of Nursing and Health Sciences*
184. Sheyla Aguilar de Santana  
*FIU Geographic Information Systems Center*
185. Nico Saputro  
*Florida International University*
186. Logan Saucer  
*Florida International University*
187. Jaclyn K. Schwartz  
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188. Bina Sengar  
*Steven J. Green School of International and Public Affairs*
189. Michael Scott Sheerin  
*College of Communication, Architecture and the Arts*
190. Kateel Shetty  
*College of Arts, Sciences and Education*
191. Dana R. Sherman  
*Nicole Wertheim College of Nursing and Health Sciences*
192. Maria Shpurik  
*College of Arts, Sciences and Education*
193. Fang Shu  
*Chaplin School of Hospitality & Tourism Management*
194. Alfred Simpson  
*College of Arts, Sciences and Education*
195. Vanessa K. Sohan  
*College of Arts, Sciences and Education*

196. Luis G. Solis  
*Kimberly Latin American Caribbean Center*
197. Danielle Sneyd  
*College of Arts, Sciences and Education*
198. Kimberly Taylor  
*College of Business*
199. Louis Tebou  
*College of Arts, Sciences and Education*
200. Atoussa Tehrani  
*College of Engineering and Computing*
201. Adela Timmons  
*College of Arts, Sciences and Education*
202. Niady Torres  
*Florida International University*
203. Walter Carballosa Torres  
*College of Arts, Sciences and Education*
204. Ingris Tremino  
*Nicole Wertheim College of Nursing and Health Sciences*
205. Maria V. Tsalikis  
*College of Arts, Sciences and Education*
206. John Russel Uharriet  
*College of Business*
207. Joan A. Vaccaro  
*Robert Stempel College of Public Health and Social Work*
208. Macia Varella  
*Herbert Wertheim College of Medicine*
209. Carleen Vincent-Robinson  
*Steven J. Green School of International and Public Affairs*
210. David Vittoria  
*Robert Stempel College of Public Health and Social Work*
211. Chen Wang  
*College of Business*
212. Meng Wang  
*College of Arts, Sciences and Education*
213. Weirui Wang  
*College of Communication, Architecture and the Arts*
214. Marcie Washington  
*Steven J. Green School of International and Public Affairs*
215. Shimon Wdowinski  
*College of Arts, Sciences and Education*
216. Tracy Weiler  
*Herbert Wertheim College of Medicine*
217. Erin Weston  
*Steven J. Green School of International and Public Affairs*
218. Cayce Wicks  
*College of Arts, Sciences and Education*
219. Stephen Alan Winkle  
*College of Arts, Sciences and Education*
220. Melody Whiddon Willoughby  
*College of Arts, Sciences and Education*
221. Andrea Wolfs  
*College of Arts, Sciences and Education*
222. Keith Wylie  
*College of Arts, Sciences and Education*
223. Anthony Yeber  
*Steven J. Green School of International and Public Affairs*
224. Tina Yeung  
*Nicole Wertheim College of Nursing and Health Sciences*
225. Sara C. Zapico  
*College of Arts, Sciences and Education*
226. Holly Zickler  
*College of Communication, Architecture and the Arts*
227. Ondrej Zjevik  
*College of Arts, Sciences and Education*

# **CURFIU 2019 Recruiters**

<b>Albizu University</b>	<b>Nottingham Trent University</b>
<b>Barry University</b>	<b>Nova Southeastern University</b>
<b>Embry Riddle Aeronautical University</b>	<b>Philadelphia College of Osteopathic Medicine</b>
<b>FIU Center for Women and Gender Studies</b>	<b>Portland State University</b>
<b>FIU College of Law</b>	<b>Robert Stempel College of Public Health and Social Work - FIU</b>
<b>FIU Honors College</b>	<b>Saba University School of Medicine</b>
<b>FIU University Graduate School</b>	<b>School for International Training</b>
<b>FIU Occupational Therapy Department</b>	<b>The University of Colorado</b>
<b>Florida Gulf Coast University</b>	<b>University of Colorado Denver</b>
<b>Hult International Business School</b>	<b>University of Miami</b>
<b>Johns Hopkins University</b>	<b>University of Nicosia</b>
<b>Larkin University</b>	<b>University of Notre Dame</b>
<b>Loughborough University</b>	<b>The University of Sheffield</b>
<b>NC State University</b>	<b>Washington University in St. Louis</b>
<b>New York University</b>	<b>Yale University</b>

# CURFIU Awards Reception

Monday, April 8, 2019

FIU Wellness and Recreation Center Patio

5:00 – 7:00 pm (by RSVP)

Introduction: Allen Varela (Honors College)

Keynote Speaker: Dr. Pete Markowitz (College of Arts, Sciences and Education)

Awards: Allen Varela (Honors College)

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**Pete E.C. Markowitz, Ph.D.**  
**Professor, Department of Physics,**  
**College of Arts, Sciences and Education**

Pete E.C. Markowitz joined FIU in 1995. He carries out nuclear and particle physics experiments at the Thomas Jefferson National Accelerator Facility, in Virginia and the European Center for Nuclear and Particle Physics (CERN) in Geneva, Switzerland. His research interests focus on the source of gravity, extra dimensions, black holes, quark structure of nuclei, dark matter, dark energy and the electro production of quarks and anti-quarks (or matter and anti-matter). He conducted a series of experiments measuring strange quark effects in atomic nuclei mapping out the behavior of these elusive and unstable particles. The experiments use high energy accelerators to bombard various target materials and then measure the subsequent particles which are produced. During his time at FIU he has taught Nuclear Physics, Intermediate Classical Mechanics, Modern Physics Laboratory, and the introductory physics sequences, as well as a FIG and the Freshman Experience course. Markowitz teaches the Honors College First Year Seminar, Origins of Ideas, Ideas of Origins.

## Poster Session 1

10:00-12:00 P.M.

### FIU Wellness & Recreation Center

1. Laura Allen (Hoang Le) “Near Infrared Light Photobiomodulation and *C. Ionga* Mitigates the Expression of Mutant Amyloid-Beta Precursor Protein Pathway in *D. Melanogaster*”
2. Roman Amento (Ida Williams) “Michael Curtiz: Master of Assimilation”
3. Mario Avalos (Florida International University) “Parental Absence in Modern Narratives”
4. Maraiyah Baksh (John Castillo, Matthew Degennaro) “Improving the Genome Editing Efficiency in *Aedes Aegypti*”
5. Benjamin Bokor (Jacob Porter, Alessandro Catenazzi, Mario Gomez & Francisco Fernandez-Lima) “The Application of Ion Mobility Spectrometry and Ultrahigh Resolution Spectrometry for Analysis of Anti-Microbial Peptides from Frog Skin Secretions”
6. Madeleine Bolivar (Ida Williams) “The Effects of Sucralose on Aquatic Plants”
7. Rosemarie Martinez Borrero (Florida International University) “Mechanistic Studies of *Mycobacterium Tuberculosis* Topoisomerase I Inhibition by Endogenous Toxin Rv1495”
8. Carolina Bravo (John Geiger) “Variation of Soil pH and its Effects on Nutrient Composition in Plants”
9. Kathryn Brudzinski (Ida Williams) “Perceived Realism and Deaf Perception”
10. Alyssa Cagan (Elizabeth Bromery) “The Final Straw: The Impact of the Plastic Straw Ban on Beverage Companies”
11. Juliana Cazzaniga (Indranil Chakraborty, Shambhu Kandel & Raphael Raptis) “Synthesis, Structure and Properties of Two Symmetrical Oxorhenium(V) Dimers Derived From 4-Chloro Pyrazole”
12. Ravinder Chale (Joaquin J. Jimenez) “Transmissible Cancer in Tasmanian Devil (*Sarcophilus harrisi*) and Canine Animal Populations Explained through Immune System Downregulation in Immunocompetent Hosts”
13. Michelle Chang (Chit Yuen Yi) “Abstract”
14. Jessica Cobb (Abdulhadi Abdulwahed, Marcus Cooke & Helen Tempest) “Gene Positioning in Chemosensitive and Chemoresistant Ovarian Cancer Cell Lines”
15. Myles Covington (Jason Downing, Krish Jayachandran & Kateel G. Shetty) “Fairchild Tropical and Botanic Garden”
16. Alexander Cuneo (Janet McDaniel & Kristen Corpion) “Loyalty to the King: The Circuits’ Interpretation of the Overhauled ‘Police-Created Exigency’ Doctrine”
17. Nicole Diaz (Tanja Zerulla & Philip Stoddard) “Do Male Eastern Mosquitofish (*Gambusia holbrooki*) Color Morphs Differ In Feeding Behavior?”
18. Kaylinn Escobar (Ida Williams) “Measuring the Factors Implemented in Medication Adherence Applications to Improve Adherence Among Adolescents”
19. Gonzalo Eyzaguirre (Florida International University) “Tracing Biogeochemical and Geospatial Indicators In Urban Fluvial Systems Resulting From Tidal Flooding”
20. Rachelle Fernandez (Mylene Feiler) “Effects of Late-Night Politics on Adolescents”
21. Rodolfo Fernandez (Florida International University) “Computational Analysis of Spark Plasma Sintering: Heat Transfer and Temperature Distribution”
22. Anna Forst (Ida Williams) “The Moral Dilemma of Film: The Ethicality of Female Journalist Characters”

23. Michaela Francis (Florida International University) “*Know Your Fascia – A Review of How Understanding Fascia Can Aid in Posture Restoration and Injury and Pain Prevention Among Various Populations*”
24. Alejandro Galella (Mylene Feiler) “*What are the Effects of Procrastination on the Mental Health and Academic Performance of High-School Students?*”
25. Sebastian Garcia (Carolyn Rosa) “*To What Extent Are High School Athletes Knowledgeable About Sports Nutrition?*”
26. Sherilene Gelderblom (Aixa Perez-Prado) “*Competition, Cooperation and Communication: International and Minority Student – Athletes*”
27. Arravintha Gobinathan (Russ Aaronson) “*Peripheral Neuropathy and Interpersonal Relationships*”
28. Athitheya Gobinathan (Russ Aaronson) “*Are International Soccer Games Tied to Government Disputes Associated with Higher Levels of Entertainment?*”
29. Daniela Gonzalez (Carolyn Rosa) “*How Does The Character Wonder Woman in the Recent Released 2017 Film Impact the Self-Esteem of Female High School Students?*”
30. Isabella Gonzalez (Mylene Feiler) “*How are Adolescents’ Academic Performance Affected by Narcissistic Tendencies?*”
31. Laura Guerrero (Cindy Alonso) “*Technology Crossing Borders*”
32. Sean Harkins (Ida Williams) “*Tracing Biogeochemical and Geospatial Indicators in Urban Fluvial Systems Resulting From Tidal Flooding*”
33. Adriana Hernandez (Carolyn Rosa) “*How Does the Perception of the Ideal Female Body Differ Amongst High School Students?*”
34. Robert Hernandez (Carolyn Rosa) “*To What Extent Does the Movie ‘Hidden Figures’ Inform High School Students on the Contributions Made by African American Women in the Field of Astronomy?*”
35. Gema Jacomino (Dania Hernandez & Sarah Eddy) “*The Development, Validation and Implementation of a Social Support Instrument to Predict Student Engagement in STEM Courses*”
36. Monica Karas (Jessica Zatarain, Sana Nasim, Diansy Zincke & Nikolaos Tsoukias) “*Ion Channel Expression Regulation by Sodium and Potassium in Vascular Endothelial Cells*”
37. Kiana Kasmaii (Chelsey Manrique & Amy Acosta) “*Video Introductions from Authors Can Aid Non-Science*”
38. Vishwa Krishnan (Elizabeth Bromery) “*Gulf Coast Coastal Infrastructure Management in Response to the 2017 and 2018 Atlantic Hurricane Season*”
39. Ivy Leung (Alejandro M. Barbieri) “*Annona montana Extracts on Differentiation in murine 3T3L1 Cells*”
40. Tyler Loring (Ida Williams) “*Extent of Interpretation of Polarized Light Amongst Genetically Modified D. Melanogaster*”
41. Isabella M. Lozano (Mylene Feiler) “*The Portrayal of Women and Racial/Ethnic Minorities in ‘Game of Thrones’*”
42. Ioana Lungescu (Ida Williams) “*Downtown Abbey and the English Women’s Labour Movement*”
43. Chelsey Manrique (Melissa McCartney, Amy Acosta & Kiana Kasmaii) “*Worksheets Can Aid Non-Science Majors in Understanding Primary Scientific Literature*”
44. Alberto Garcia Marrero (Florida International University) “*The Rise of Apple, Inc.: Opportunities and Challenges in the International Marketplace*”
45. Allison Marrero (Ida Williams) “*Female Representation in Nintendo Video Games: How It Has Changed Over the Last 30 Years*”
46. Marissa Martin (Brian Fonseca) “*Germany’s Open-Door Policy*”

47. Carolina Martinez (Carolyn Rosa) *"How is the Personal Use of Mobile Devices (Smartphones) During Classes Affecting Academic Performance in High School Students?"*
48. Renata Martinez (Mylene Feiler) *"The Well-Being of Adolescents: A Biocognitive Perspective"*
49. Alexa Del Mazo (Elizabeth Bromery) *"Teacher Turnover in Broward County Public Schools"*
50. Kayla Mejia (Ida Williams) *"American Horror Cinema: The Influence of Physical and Psychiatric Disabilities"*
51. Kathryn Mendez (Geoff Potvin) *"Adapting Pion Mentorship Program to Prepare Students for Post-Graduation"*
52. Brittany Montesino (Jessica Siltberg-Liberles) *"Structural and Evolutionary Analysis of the Activation Mechanism in the SK Channel-Calmodulin Complex"*
53. Natalie Musumeci (Ida Williams) *"What Barriers are Faced in the Progression of Successful Male Contraceptive Trials and Studies?"*
54. Veronica Nocera (Ida Williams) *"Financial Realism in the Romantic Comedy"*
55. Brian O'Farrell (George Dulikravich, Andres Tremante, Carmen Mueller-Karger, Steven Castaño & Karina Cornieles) *"VTOL UAV: For Littoral Combat Ships"*
56. Ricardo Olavarrieta (AP Capstone Research Program) *"Portrayal of Characters in Video Games - Affect on Player Assumptions"*
57. Beatriz Oliva (Dario Calle, Francisco Nunez & Manuel Carames) *"Kinematics & Dynamics of a Planar Manipulator 2DOF"*
58. Danelis Olivera (Carolyn Rosa) *"To What Extent is Mobile Phone Addiction Problematic in High School Students?"*
59. Raquel Palacio (AP Capstone Research Program) *"To What Extent Have Climatic Variables Impacted the Species Projection of Amphidromus Albers, in Accordance with Chirality Since 1950?"*
60. Mia Perdomo (Mylene Feiler) *"The Drag Paradox: RuPaul's Drag Race's Representation of Drag Queens and its Effects on the LGBT+ Community"*
61. Ariadna Pereiras (Remy Dou) *"Reconceiving the Role of Immersive Professional Development Experiences on K-12 STEM Teacher Retention in the Classroom"*
62. Joao Victor Peres (Laura Serbus) *"Cell Polarity and Localization in Drosophila is Highly Affected By Diet"*
63. Adrian Perez (Jonathan Beltran, Sheila Alemany, Gianfranco Colombi & Sam Ganzfried) *"Hurricane Tracking Using Neural Networks"*
64. Alain A. Perez (Florida International University) *"PCR Machine"*
65. Habana Perez (Mylene Feiler) *"How Does Gaming Affect High School Students in Relation to Aggression and Pro-Social Behavior in a Miami-Dade Setting?"*
66. Dereck Phrathep (Bennett Schwartz) *"Amygdala Activity and Psychological Well-Being: A U-shaped Hypothesis"*
67. Meera Prasad (Florida International University) *"Prevalence and Predictors of Bacterial Vaginosis (BV) Among Pregnant Women in Rural South India"*
68. Liz M. Quesada (Markus Spurlock, Stephanie W. Lee, Julia Janecki, Zhen Hu, Karla N. Rivera, Anil Mahavadi, Ganesh R. Gajavelli, Deborah Shear, Shyam Gajavelli & Ross Bullock) *"Transplant Location Dependent Mitigation Of Traumatic Brain Injury Pathology and Motor Deficit in Rats"*
69. Jessica Quinones (Helen Wagner, Andre Costa-da-Silva, Matthew Degennaro) *"Mapping Genetic Diversity and Insecticide Resistance of Aedes Aegypti in Florida"*
70. Diego Rivera (Ida Williams) *"The Relationship Between Sunspots and Global Temperatures"*
71. Jorge Pedro Rodriguez (Carolyn Rosa) *"Video Games and Academic Performance in High School Students"*



72. Maria Angela Rodriguez (Miami-Dade College) “*A Preliminary Analysis of the Performance of Monolingual and Bilingual Students on Executive Functioning Tasks*”
73. Maria Saavedra (Kevin Leiva, Kacie Kaile, Anuradha Godavarty & Francisco Perez-Clavijo) “*Tissue Oxygenation Changes in a Large Diabetic Foot Ulcer: Longitudinal Case Study*”
74. Iman Samnani (Elizabeth Bromery) “*Social Emotional Learning on Broward County High Schools*”
75. Lauren Saqui (Ligia Collado-Vides) “*Morphological Analysis and Abundance of Pelagic Sargassum Fluitans and Natans in South Florida*”
76. Danielle Sardarsingh (Elizabeth Bromery) “*The Effects of Time Spent on a Cell Phone on Physical and Mental Health of Teenagers*”
77. Benjamin Schneider (Ida Williams) “*The Effect on Anti-Israel Newspaper Bias on Anti-Semitic Incidents*”
78. Reynier Serpa (Gabriel Madrid, Asadullah Khalid & Arif Sarwat) “*Experimental Comparison of Active and Passive Battery Management Systems for E-bike Battery Application*”
79. Nistula Seshadri (Elizabeth Bromery) “*Effects of the AP Capstone Diploma Program on Students’ Academic and Personal Growth*”
80. Hana Shah (Mavara Mirza-Agarwal, Marco Tello & Jaclyn Schwartz) “*Gaps in Services and ADL Skill Acquisition in Adults with Autism*”
81. Brendan Sossoman (Ida Williams) “*Diegetic vs Non-Diegetic Sound: Creating Suspense in Mystery Movies*”
82. Natalie Sotero (Mylene Feiler) “*The Role Emotional Intelligence Plays On Academic Performance and Academic Motivation in High School Students in Miami-Dade County*”
83. Mariana Tabares (Mylene Feiler) “*The Show Dexter Use of Characterization and Storylines to Challenge Pre-Established Norms of Serial Killer Traits and Motives in Society and Media*”
84. Marco Antonio Tello (Hana Shah, Jaclyn Schwartz & Mavara Agrawal) “*The Mental Health of Adults with Autism: A Longitudinal Perspective*”
85. Edilmary Urdaneta (Stephen Winkle) “*Use of Nuclease Digestions to Prove DNA Structural Alterations Produced by N-Methylpyridyl Porphin Binding*”
86. Karina Valentin (Elsa Bravo, Ana Lucia Rodriguez, Dionne Stephens) “*Hispanic College Women’s Perceptions of Appropriate Sexual Initiation Communication Strategies With Men*”
87. Isabella Vilaragut (Carolyn Rosa) “*Occupational Stress and Job Satisfaction: High School Teachers*”
88. Mia Virtue (Brian Redondo, Josue Gil, Maily Hernandez & Zachary Danzinger) “*Prosthetic Pressure Detecting Sock*”
89. Sophie Vo (Russ Aaronson) “*Exploring the Linguistic and Rhetorical Elements in Historical Documents of Political Repression*”
90. Akshay Vuppalapati (Elizabeth Bromery) “*What are the Effects of Medical Care on Lower-Income Childbearing Women in East Africa as Compared to Men of the Same Age?*”
91. Jenna Williams (Ida Williams) “*Mise-en-scene in Psychological Horror Films*”
92. Samantha Yi (Dora Pilar Maul) “*PCR-Alu DNA Fingerprints in Medicinal Plants Tumeric, Ginger, and Chamomile*”

## Poster Session 2

12:00- 2:00 P.M.

### FIU Wellness & Recreation Center

1. Amy Acosta (Kiana Kasmaii, Chelsey Manrique & Melissa McCartney) “*Can Different Learning Styles Aid in Understanding Primary Scientific Literature?*”
2. Richard Alfonzo, Cristian Jimenez & German Garcia (Aldo Fonseca) “*U.S./Mexico Bilateral Security Cooperation and Outlook for American Multinational Corporations*”
3. Isabella Arcos (Florida International University) “*Quantum Dots as Bio-Imaging Agents for the Detection of Cancer Cells*”
4. Karina Bhutta (Remy Dou & Monique Ross) “*How Socially Deviant and Socially Agreeing Stereotypes of Computer Scientists Contribute to Middle School Boys’ Identity and Career Intentions*”
5. Odae Bood (Randy Pestana) “*Assessing the Benefits of CDD to Support Capacity Building in Haiti*”
6. Emily Boulos (Nathalie Desrayaud) “*Toxic Masculinity Explication: A YouTube Analysis*”
7. Thomas Boulos (Mahsa Karbaschi & Marcus Cooke) “*Optimization of Comet Assay Staining Conditions for the Analysis of Cellular DNA Damage*”
8. Suzanne Carlucci (Florida International University) “*An Analysis and Evaluation of the Peacock Eel (Macrogathus siamensis) Gastrointestinal Contents from its Invaded Florida Range*”
9. Natalie Casabone (Xuan Jiang & Jordan Guido) “*Female Tutor’s Perceptions of Having Free Access to Menstruation Products in a Writing Center*”
10. Eva Colon (Marcie Washington) “*The Nexus of Gender Equality and State Fragility*”
11. Kaityn Contino (Myriah McNew, James Todd & Lorraine Bahrck) “*Frequency and Mean Duration of Joint Attention at 12 Months Independently Predict Expressive Vocabulary Growth at 18 and 24 Months*”
12. Alyssa Del Campo (Pablo Gomez, Caroline Griffin, Graciela Hernandez, Adriana Mejias Fernandez, Gabriella Morey, Adela Timmons) “*Couples’ Language Use and Vocal Pitch During Everyday Relationship Distress: Links with Dating Aggression*”
13. Cynthia Dillon (Wenrui Duan) “*Effects of Mutant P53 Genes on Micro-RNA Expression in Spontaneous Lung Tumor Development in Mice*”
14. Romina Doubnia (Anthony McGoron) “*Techniques in Theranostic ORMOSIL Nanoparticle Fabrication for Cancer Therapy*”
15. Amanda Duran (John Geiger) “*Environmental Effects on Plant Morphology and Growth*”
16. Jenesis Escobar (Victor Payen, William Ortola, Carlos Gutierrez, Rafael Gomez, Patrick Dandenault & Eduardo Araujo-Pradere) “*Ionospheric Behavior During Ascendant Phase of Solar Cycle 21*”
17. Cristal Espinosa (Matthew Colas & Leah Leyland) “*Measuring Fish Diversity in Healthy vs. Propeller-Scarred Seagrass*”
18. Anthony Farias (Alex T. Kararo, Rebecca Matz, Kristen Parent, Brittney Pardinas, Laura Santiago & Sonia Underwood) “*Integrating Chemistry and Biology: Student Application of Intermolecular Forces in Denaturation of DNA*”
19. Elizabeth Ferrer (Alexander Agoulnik) “*Effect of Relaxin Signaling on ERBB2-Induced Breast Cancer*”

20. Patricia Garcia (Florida International University) *“Identifying Key Components of Extracellular Matrix in Vascularized Skeletal Muscle Tissues”*
21. Wanda Gonzalez (Stephen Winkle) *“Using Nucleases to Probe the Effects of Heterocyclic Diamidine Binding on DNA Structure”*
22. Brenda Guerrero (Stephen Winkle) *“Effects of DNA Sequence and Topology on the Binding of Porphyrins and Psoralens to DNA using Restriction Enzyme Activity Assays”*
23. Angela Hogan (Arturo Leon) *“EcoFlow: Sustainable and Smart Green Infrastructure Solutions for Florida International University”*
24. Cristal Kelly (Karina Bhutta, Remy Dou & Monique Ross) *“How Middle School Boys From Underrepresented Communities Perceive Computer Science and Computer Science Careers”*
25. Nicole Larraguibel (Florida International University) *“Introverts and Extroverts: Learning to Understand One Another”*
26. Erika Lozano (Maria de Cabrera & Stanislaw Wnuk) *“Novel Synthesis of the Homologs of Natural Nucleosides”*
27. Gabriel Marinuchi (Florida International University) *“Musical Interventions in the Neonatal Intensive Care Unit: A Review of Literature”*
28. Carlos A. Marmolejo (Anthony B. & Justin D.) *“Developing Electroporation-Based Delivery of Cas9 RNPs to Coral Endosymbionts”*
29. Andrew Martinez (Ibrahim Tansel) *“Soft Robotics Actuators with Customizable Inner Geometries Using Additive Manufacturing”*
30. Tomas Medina (Thomas Cieslak) *“Examining Outcome Expectations of Wearable Performance Device Users: A Case Study of Recreational Athletes”*
31. Manuel Merino (Jose F. Rodriguez) *“The Relationship Between Sleep Deprived College Students and Internalizing Symptoms Caused by Perceived Academic Workload”*
32. Jessica E. Molina (Joshua D. Hutcheson) *“Using Tunable Resistive Pulse Sensing to Identify and Quantify Extracellular Vesicles”*
33. Sophia Neves (Claudio Salazar) *“Cultural Center for Wynwood”*
34. Daniella Nunez (Sean Hermanson) *“Identification of Candidate Gene FAM183A and Novel Pathogenic Variants in Known Genes: High Genetic Heterogeneity for Autosomal Recessive Intellectual Disability”*
35. Manuela Ocampo (Trinidad Arguelles) *“Bilingualism and Executive Functions”*
36. Kristopher Odiete (Florida International University) *“Detection of Circulating Tumor Cells for Early Diagnosis of Cancer on a Microfluidic Platform”*
37. Monserrat G. Otarola (Jacob McPherson) *“Doctor’s Cyclo-Massage – Cycloidal Vibration Therapy”*
38. Matthew Pasteris (A. Hasan Howlander & Stanislaw F. Wnuk) *“Synthesis of (E)-2-Chlorhomovinyl Ribose to Examine the Mechanism of 6-Chlorhomovinyl Adenosine”*
39. Shivani Patel (Christopher Barraloto, Diego Salazar & Oscar Valverde) *“Chemical Analysis of Cycads from Varied Environment”*
40. Victor Payen (Jenesis Escobar & William Ortolai, Carlos Gutierrez, Rafael Gomez, Patrick Dandenault & Eduardo Araujo Pradere) *“Ionospheric Behavior During Descendant Phase of Solar Cycle 20”*
41. Alejandro M. Perez (Shambu Kandel, Indranil Chakraborty & Raphael Raptis) *“Synthesis, Characterization and Biological Study of Water-Soluble Silver Pyrazolates”*
42. Darines D. Perez (Krista Donis & Sarah Eddy) *“Does Active Learning Increase Self-Efficacy with Course Material in Introductory Biology Classes?”*

43. Kelly Nair Rojas (Jacob McPherson)  
*“Correlation Between Magnetic Resonance Imaging-Based Markers of Spinal Cord Integrity and Muscle Composition in Individuals with Chronic Spinal Cord Injury”*
44. Natalia Sayeg (Leslie Frazier) *“Effect of Loneliness on Oral Health”*
45. Quinn Simpson (FIU Herpetology Lab)  
*“Quantitative PCR Species Identification”*
46. Ethan Rey Gonzalez Soledad (Florida International University) *“The Cross of Snow”*
47. Dennis Ramos Trinidad (Florida International University) *“Assessing Biocompatibility of Polymeric Materials as Scaffolds to Establish 3D Cell Culture in a Microfluidic Platform”*
48. Ana Ruas (Deodutta Roy & Kaumudi Bhawe) *“Nuclear Respiratory Factor 1 (NRF1) Coordinating Changes in the Transcriptional and Epigenetic Landscape Contribute in the Progression of Invasive Ovarian Cancer”*
49. Mauricio Zuluaga Salas (William Newburry) *“Leadership Reputation in Latin America”*
50. Kumar Yogesh Shah (Ibrahim Tansel)  
*“Additively Manufactured Multi-Material Parts with Defect Detection Capabilities”*
51. Sandy Saint-Hilaire (Sandra Kiplagat, Makella Coudray, Kavitha Ravi, Vijaya Srinivas, Poornima Jaykrishna, Dionne Stephens & Purnima Madhivanan)  
*“Socio-Demographic Factors, Knowledge and Attitudes about HIV/AIDS among Pregnant Women in Mysore, India”*
52. Mirela Turkic (Florida International University) *“Russia’s Non-Linear Warfare Strategy: Realist Game of Checkers in Bosnia and Herzegovina”*
53. Jo’Neil Williams (FIU QBIC Scholar)  
*“Optimization of Pollen Collection Methods to Maximize Taxonomical Resolution for Forensic Application”*

## Poster Session 3

2:00-4:00 P.M.

### FIU Wellness & Recreation Center

1. Idarabasi Akpan (Hannah Bruce Opris, Tessy Ritchie & Melissa McCartney) *“Democratizing Science Communication Training Access for STEM Graduate Students”*
2. Christian Almanza (Thomas Cieslak) *“Examining Outcome Expectations of Athletic Performance Apparel Users: A Case Study of Recreational Activities”*
3. Veronica Alvarez (Eliza Nelson) *“Differences in Predictive Ability of Gross and Fine Motor Skills Towards Language Outcomes: A Systematic Review”*
4. Nicole Bacca (Florida International University) *“Time-Dependent Mechanical Properties of PDMS for Micro Tissue Gauges”*
5. Ann M. Barral (Aileen M. Marty) *“Project Vitamin Sea”*
6. Amanda Barreto (Asad M. Mirza, Daniel Chaparro, Ahmed Z. Ali, Rachel Montlavan, Joshua D. Hutcheson & Sharan Ramaswamy) *“Aortic Valve Leaflet Curvature as a Function of Elastin Degradation”*
7. Jorge Barter (E. Robledo, K. Kaile, K. Leiva & A. Godavarty) *“Automation of Image Analysis Software for Real-Time Oxygenation Imaging of Wounds”*
8. Camila Basterrechea (Vishodana Thamocharan) *“A Quantitative Analysis of Pre-Service Teachers Beliefs Towards Implementing Multicultural Curriculum”*
9. Jasmine Batten (Leila Zahedi, Monique Ross, Peter Clarke & Geoff Potvin) *“Implications of Gamification on Computer Science Women for Performance, Engagement, and Self-Efficacy”*
10. Kathrine Black (Randi J. Cheatham-Johnson, Bridget Poznanski & Katie C. Hart) *“The Relationship Between Subdomains of Externalizing Behavior and Social Problem Solving Among Preschoolers”*
11. Javier Broche (Jose Parra, Jimena Fernandez, Miroslav Gantar & Kathleen Rein) *“Controlling Cyanobacterial Growth Using Plant Extracts”*
12. Alexa Bryant (Pete E. C. Markowitz) *“Effects of Diet, Body Weight, & Supplementation on Human Fertility”*
13. Silvia Cabal (Andre Da Costa Da Silva) *“Aedes Aegypti Multiple Choice Oviposition Behavior: Aggregation of Adult Females and Eggs”*
14. Alberto Cabello (Ruben Recabarren & Bogdan Carbunar) *“Grokking Litecoin”*
15. Katherine Michelle Cabrera (Angela Simon) *“Bilingualism and Executive Functioning”*
16. Briana Canet (Florida International University) *“Extrudable Biopolymer for Extrusion Type 3D Printing/In-situ Photocuring for Tissue Engineering”*
17. Steven Castillo (Zahra Hazari, Geoff Potvin & Laird Kramer) *“The Effect of Physics Identity and Conceptual Understanding on Physics Career Choice”*
18. Martina Cavallini (Beatriz Abdo Abujamra & Lidia Kos) *“Pigment Regulation in Non-Cutaneous Melanocytes”*
19. Marqueline Cenatus (Michelle Ramos & Bethany C. Reeb-Sutherland) *“Learned Social Contingency in 5-Month-Old Infants”*
20. Brianna Chin (Steven M. Whitfield) *“Gopher Tortoise Movement Patterns within Zoo Miami’s Pine Rockland Ecosystem”*
21. Phillip Cifuentes (Florida International University) *“Monitoring Program for Intertidal Sargassum in South Florida”*
22. Hailey Conboy (Aldo Fonseca) *“Research Abstract”*

23. Noemie Denis (Arvind Agarwal) *“Boron Nitride Nanotube Reinforced Magnesium Composite by Spark Plasma Sintering”*
24. Carlos J. Desme (Daniela Alvarez-Vargas & Shannon M. Pruden) *“Confidence Mediates The Sex Differences Observed In Mental Rotation Tests”*
25. Samantha Z. Fernandes (Elina Barredo & Matthew DeGennaro) *“Insertion of the GAL4/UAS Binary System in Aedes Aegypti for the Production of Mutagenic Lines”*
26. Alfredo Gonzalez (Florida International University) *“Ultra-Wideband Interference Resistant System for Multi-User Communication”*
27. Carolina Guillen (Anthony J. McGoron) *“Functionalization of Silica Nanoparticles for Drug Delivery and Optimization of Synthesis Methods”*
28. Shirley Hernandez (Jean R.N. Haler, Kevin Jeanne Dit Fouque, Juan Camilo Molano-Arevalo, Fenfei Leng & Francisco Fernandez-Lima) *“Investigating the Structural Complexity of the UCH Knot Protein using Trapped Ion Mobility Spectrometry – Mass Spectrometry”*
29. Luis Herran (Andres Pena & Ranu Jung) *“Improving the Stability of Referred Sensations Evoked by Transcutaneous Electrical Neuro-Stimulation”*
30. Farnaz Habib Kachelo (Vicenta Shepard) *“How Active Learning and Self-Regulated Learning Strategies Influence Academic Excellence and the Mastery of Skills”*
31. Hillary Lopez (Florida International University) *“Exploring Drivers’ Behavior and Cognition in a Driving Simulator with Eye-Tracking”*
32. Priscilla Lozano (Florida International University) *“Validation of Near Infrared Optical Scanner to Assess Saturated Oxygen Changes in Response to Breath Hold”*
33. Valentina Melero (Maria F. Bandres & Jacob G. McPherson) *“Intraspinal Microstimulation for Motor Rehabilitation Modulates Neural Transmission In Spinal Pain Pathways”*
34. Carmen Morado (S.-C. Chen) *“Visual Aid for Disaster Information Integration”*
35. Kassej Morales (Elizabeth V. Edgar, James T. Todd & Lorraine E. Bahrick) *“Relations Between Social Competence and Language at 24 Months”*
36. Javier Moreno (Kevin Jeanne Dit Fouque & Francisco Fernandez-Lima) *“Exploring the Conformational Space of Growth Hormone - Releasing Hormone Analogs using Dopant Assisted Trapped Ion Mobility Spectrometry - Mass Spectrometry”*
37. Parsa Nilchian (Aaron Mattfeld) *“Activation of the Default Mode Network Is Related to High Reaction Time Variability in ADHD”*
38. Armando J. Ochoa (Mark A. Finlayson) *“Analysis and Parsing of Unstructured Cyber-Security Data”*
39. Yanina Onyewenjo (Amir Khoddamzadeh) *“Project C.”*
40. Cristina Jazmin Orozco (Florida International University) *“Natural Products and Special Diets: The Perceptions of Female Breast Cancer Patients in Miami”*
41. Ariana Ramsundar (Aldo Fonseca) *“Cyberattacks to the U.S. Critical Infrastructure”*
42. Terry Reyes (Florida International University) *“Ultra Violet Disinfection in Waste Water Treatment Plants”*
43. Grecia Rodriguez (Miami-Dade College SPARC) *“Interleukin-6 Levels are Associated with Sleep Quality in Young Females”*
44. Nidia Rodriguez (Giselle Valdes, Daniela Gomez & Jasmine Singh) *“Cooperativity and Competition in the Binding of Intercalators and Groove Binders to DNA”*
45. Sebastian Salinas (Katie Hart) *“Do Relationships Matter?: Understanding the Impact of Student-Teacher Relationships on Academic Performance for Children with EBPs”*
46. Juan Sanfiel (Arif Sarwat) *“Design and Simulation of a Single-Phase AC/DC Bidirectional Converter for Electric Vehicles V2G and G2V Applications”*

47. Maria Jose Santiago (Ruipeng Lei, Jaroslava Miksovska, Valerie Derrien, Sophie Bernard & Pierre Sebban) “*Accessibility of the Heme-pocket in Hexa-coordinate Globins*”
48. Sofia Scotti (Matthew Marr) “*An Overview of Public Policy and Homelessness in Miami-Dade County*”
49. Keithan Smith (Nicholas Caudill, Theo Pelecanos, Arvind Agarwal & Cheng Zhang) “*Flash Temperature Measurement Device for Tribological Applications*”
50. Stephanie Torres (Bruce Schaffer & Ana Vargas) “*Effects of Flooding and Soil-Applied Solid Oxygen Fertilizers on Physiology and Growth of Papaya Plants*”
51. Diana Ugalde (Valentina Bruk-Lee) “*Impact of Source Specific Conflict on Nurses’ Safe Work Performance*”
52. Natalie Ugarte (Florida International University) “*Predictors and Perceptions of HIV Status Disclosure among Pregnant Women from Rural Mysore, India*”
53. Courtney White (Aldo Fonseca) “*Foreign Fighter Mobilization to Libya*”
54. Catalina M. Young (Florida International University) “*Spark Plasma Sintered Aluminum Oxide Filter for Hot Gas Applications*”
55. Luisana Zambrano Diaz (Robert Hacker) “*Asymmetric Information and Economic Development*”
56. Bridgett Zayas (Moses Shumow) “*Security Starts at Your Door: Social Media, Racial Inequality, and the Rise of Video Sousveillance in Urban Environments*”

# NOTES



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