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
Table of Contents

Schedule of Events....................................................................................................................Page 4
CURFIU 2019 Judges...............................................................................................................Page 5
CURFIU 2019 Recruiters........................................................................................................Page 12
CURFIU Awards Reception.....................................................................................................Page 13
Poster Session #1..................................................................................................................Page 14
Poster Session #2..................................................................................................................Page 18
Poster Session #3..................................................................................................................Page 21
Notes.......................................................................................................................................Page 24
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

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.

VISIT US AT:
http://ot.fiu.edu
305-348-6068
occupthe@fiu.edu

7 semesters
80 credits
Full-Time Program
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 International and Public Affairs  
34. Alessandro Catenazzi  
   College of Arts, Sciences and Education  
35. Linda Chamorro  
   College of Communication, Architecture and the Arts  
36. Cristy Charters  
   College of Engineering and Computing  
37. Priscilla Chaves  
   Herbert Wertheim College of Medicine  
38. Can Chen  
   Steven J. Green School of International and Public Affairs  
39. Thomas J. Cieslak  
   College of Arts, Sciences and Education  
40. Ellen G. Cohn  
   Steven J. Green School of International and Public Affairs  
41. Mariceli Comellas  
   Nicole Wertheim College of Nursing and Health Sciences  
42. Nicole Cook  
   College of Arts, Sciences and Education  
43. Roxana Corradino  
   College of Communication, Architecture and the Arts  
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 Computing  
51. Remy Dou  
   College of Arts, Sciences and Education  
52. Travis Dozier  
   Florida International University  
53. Kristin Elink-Schuurman-Laura  
   Steven J. Green School of International and Public Affairs  
54. Maria Elliott  
   College of Arts, Sciences and Education  
55. Frank Wensheng Fan  
   Florida International University  
56. Rene Ferro  
   College of Arts, Sciences and Education  
57. Daniela F. Foerch  
   College of Arts, Sciences and Education  
58. J. Chris Ford  
   College of Engineering and Computing  
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 Tourism Management  
63. Orlando J. Garcia  
   College of Communication, Architecture and the Arts
64. Mohamed K. Ghumrawi  
    *Steven J. Green School of International and Public Affairs*
65. Deborah Goldfarb  
    *College of Arts, Sciences and Education*
66. Deana Goldin  
    *Nicole Wertheim College of Nursing and Health Sciences*
67. German Gomez  
    *College of Engineering and Computing*
68. Juan Carlos Gomez  
    *College of Law*
69. Matthew L. Gomez  
    *Steven J. Green School of International and Public Affairs*
70. Christopher Goslin  
    *College of Communication, Architecture and the Arts*
71. Florence Greer  
    *Robert Stempel College of Public Health and Social Work*
72. Amy Hyman Gregory  
    *Steven J. Green School of International and Public Affairs*
73. Shane Gunderson  
    *College of Communication, Architecture and the Arts*
74. Kathleen Guy  
    *College of Arts, Sciences and Education*
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  
    *Nicole Wertheim College of Nursing 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 Education*
83. Ileana Hernandez  
    *College of Arts, Sciences and Education*
84. Magnolia Hernandez  
    *Robert Stempel College of Public Health and Social Work*
85. Lenis Miguel Hernandez  
    *College of Engineering and Computing*
86. Ivette Hidalgo  
    *Nicole Wertheim College of Nursing and Health Sciences*
87. Johanna Hodgson  
    *Steven J. Green School of International and Public Affairs*
88. Monica Strauss Hough  
    *Nicole Wertheim College of Nursing and Health Sciences*
89. Kate Yglesias Houghton  
    *Honors College*
90. Kai Huang  
    *College of Arts, Sciences and Education*
91. Armana Huq  
    *Florida International University*
92. Amy Kahrmann Huseby  
    *College of Arts, Sciences and Education*
93. Glenn Hutchinson  
    *College of Arts, Sciences and Education*
94. Boubakari Ibrahimou  
    *Robert Stempel College of Public Health & Social Work*
95. Flavia Iuspa  
    *College of Arts, Sciences and Education*
96. Jennifer Rose Ivey  
    *College of Communication, Architecture and the Arts*
97. Eugenio Jaramillo  
   College of Engineering and Computing

98. Abdy Javadzadeh  
   Steven J. Green School of International and Public Affairs

99. Haiyan Jiang  
   College of Arts, Sciences and Education

100. Xiaochuan Jiang  
   College of Business

101. Paige W. Johnson  
   College of Communication, Architecture and the Arts

102. Dr. Kamal Kadel  
   College of Arts, Sciences and Education

103. Dr. Vivek Kamat  
   College of Engineering and Computing

104. Nicole Kashian  
   College of Communication, Architecture and the Arts

105. Kamilla Szklarska Kent  
   College of Communication, Architecture and the Arts

106. Chooda Mani Khanal  
   College of Arts, Sciences and Education

107. Amir Khoddamzadeh  
   College of Arts, Sciences and Education

108. Jason Kostrna  
   College of Arts, Sciences and Education

109. Alexander Kroll  
   Steven J. Green School of International and Public Affairs

110. Masako Kubota  
   Honors College

111. Cheng-Yu Lai  
   College of Engineering and Computing

112. Angie Laird  
   College of Arts, Sciences and Education

113. Luke Lamb  
   College of Arts, Sciences and Education

114. Amanda Landa-Galindez  
   Herbert Wertheim College of Public Health and Social Work

115. Claudia Lau  
   Steven J. Green School of International Public Affairs

116. Rebeca C. Martinez  
   Herbert Wertheim College of Medicine

117. Gali Milbauer Lefkowitz  
   FIU Online

118. Anna Leimberg  
   Steven J. Green School of International Public Affairs

119. Lu Liang  
   College of Arts, Sciences and Education

120. Izia Lindsay  
   College of Communication, Architecture and the Arts

121. Sandi Logan-McKibben  
   College of Arts, Sciences and Education

122. Maria K. Lovett  
   College of Arts, Sciences and Education

123. Juan M. Lozano  
   Herbert Wertheim College of Medicine

124. Xuan Lv  
   College of Engineering and Computing

125. Jacqueline Lynch  
   College of Arts, Sciences and Education

126. Peter A. Machonis  
   Steven J. Green School of International and Public Affairs

127. Pete E. Markowitz  
   College of Arts, Sciences and Education

128. Maria Ines Marino  
   College of Communication, Architecture and the Arts
129. TJ Marston  
   College of Communication,  
   Architecture and the Arts
130. Christine Martorana  
   College of Arts, Sciences and  
   Education
131. Elizabeth Marsh  
   College of Communication,  
   Architecture and the Arts
132. Dr. Keisha McIntyre-McCullough  
   College of Arts, Sciences and  
   Education
133. Angela M. Medina  
   Nicole Wertheim College of Nursing  
   and Health Sciences
134. Martha M. Meyer  
   College of Arts, Sciences and  
   Education
135. Audrey P. Miller  
   Nicole Wertheim College of Nursing  
   and Health Sciences
136. Alla Mirzoyan  
   Florida International University
137. Sara Moats  
   Steven J. Green School of  
   International and Public Affairs
138. Eduardo Monteiro  
   College of Engineering and  
   Computing
139. Mark Joseph Mooney  
   Steven J. Green School of  
   International and Public Affairs
140. Melanie Morales  
   College of Arts, Sciences and  
   Education
141. Valerie Morgan  
   Undergraduate Education
142. Sabyasachi Moulik  
   Herbert Wertheim College of  
   Medicine
143. Michael Moura-Kocoglu  
   College of Arts, Sciences and  
   Education
144. Esperanza Muino  
   College of Communication,  
   Architecture and the Arts
145. Mubarak Mujawar  
   College of Engineering and  
   Computing
146. Carmen Muller-Karger  
   College of Engineering and  
   Computing
147. Leonard Nash  
   College of Business
148. Dr. Eliza Nelson  
   College of Arts, Sciences and  
   Education
149. Leslie Nisbet-Gonzalez  
   College of Arts, Sciences and  
   Education
150. Yuka Nishikawa  
   College of Business
151. Nicholas J. Oehm, Jr.  
   College of Arts, Sciences and  
   Education
152. Cristina Palacios  
   Robert Stempel College of Public  
   Health and Social Work
153. Yvonne D. Parchment  
   Nicole Wertheim College of Nursing  
   and Health Sciences
154. Julia Parker  
   College of Arts, Sciences and  
   Education
155. Carlos M. Parra  
   College of Business
156. Mary Lou Pasternac  
   Steven J. Green School of  
   International and Public Affairs
157. Valerie L. Patterson  
   Steven J. Green School of  
   International and Public Affairs
158. Magda N. Pearson  
   Steven J. Green School of  
   International and Public Affairs
159. Maheba Pedroso  
   College of Arts, Sciences and  
   Education
160. Humberto Perez  
   Steven J. Green School of  
   International and Public Affairs
161. Albena Petrus  
   College of Communication,  
   Architecture and the Arts
162. Yselande Pierre  
*Florida International University*

163. Nipesh Pradhananga  
*College of Engineering and Computing*

164. Rene Price  
*College of Arts, Sciences and Education*

165. Daniela Radu  
*College of Engineering and Computing*

166. Jean “Muteba” Rahier  
*Steven J. Green School of International and Public Affairs*

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  
*Nicole Wertheim College of Nursing and Health Sciences*

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  
*College of Engineering and Computing*

179. Meer Nafis Safa  
*College of Engineering and Computing*

180. Rohini P. Samani  
*Steven J. Green School of International and Public Affairs*

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  
*Nicole Wertheim College of Nursing and Health Sciences*

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 Whidden 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

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

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 Ultra high 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 1 Inhibition by Endogenous Toxin Rv1495”
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”
12. Ravinder Chale (Joaquin J. Jimenez) “Transmissible Cancer in Tasmanian Devil (Sarcophilus harrisii) and Canine Animal Populations Explained through Immune System Downregulation in Immunocompetent Hosts”
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. Kayloll 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”
22. Anna Forst (Ida Williams) “The Moral Dilemma of Film: The Ethicality of Female Journalist Characters”


27. Arravinta Gobinathan (Russ Aaronson) “Peripheral Neuropathy and Interpersonal Relationships”


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?”


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. Kianna Kasmai (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”


42. Ioana Lungescu (Ida Williams) “Downtown Abbey and the English Women’s Labour Movement”

43. Chelsey Manrique (Melissa McCartney, Amy Acosta & Kiana Kasmai) “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?” |
| 49. | Alexa Del Mazo (Elizabeth Bromery) | “Teacher Turnover in Broward County Public Schools” |
| 51. | Kathryn Mendez (Geoff Potvin) | “Adapting Pion Mentorship Program to Prepare Students for Post-Graduation” |
| 52. | Brittany Montesino (Jessica Silbberg-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?” |
| 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” |
| 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 & Mavaaa 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-AluI 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 Kasmai, 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”


5. Odae Bood (Randy Pestana) “Assessing the Benefits of CDD to Support Capacity Building in Haiti”


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 (Macrognathus 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”


11. Kaityn Contino (Myriah McNew, James Todd & Lorraine Bahrick) “Frequency and Mean Duration of Joint Attention at 12 Months Independently Predict Expressive Vocabulary Growth at 18 and 24 Months”


13. Cynthia Dillon (Wenrui Duan) “Effects of Mutant P53 Genes on Micro-RNA Expression in Spontaneous Lung Tumor Development in Mice”


15. Amanda Duran (John Geiger) “Environmental Effects on Plant Morphology and Growth”


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, Britney 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 Larraquibel (Florida International University) “Introverts and Extroverts: Learning to Understand One Another”


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”


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”


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 Newbury)  “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”

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)
5. Ann M. Barral (Aileen M. Marty) “Project Vitamin Sea”
8. Camila Basterrechea (Vishodana Thamotharan) “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”
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”
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”
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”
24. Carlos J. Desme (Daniela Alvarez-Vargas & Shannon M. Pruden) “Confidence Mediates The Sex Differences Observed In Mental Rotation Tests”
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”
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. Greccia 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”
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”
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”
NOTES
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