

*Celebrating*

UNDERGRADUATE  
RESEARCH  
AND CREATIVITY

**April 24, 2019**



PROGRAM AND  
INDEX OF POSTERS,  
PRESENTATIONS  
AND EXHIBITS



Stony Brook  
University

# URECA Celebration of Undergraduate Research & Creativity

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April 24, 2019

10:00 — 4:00      **Exhibits & Presentations, Student Activities Center (SAC)**

**POSTER PRESENTATIONS/EXHIBITS — SAC Ballroom A**

*\*Posters are arranged alphabetically by department of primary faculty mentor.*

**ORAL PRESENTATIONS — SAC Auditorium & Third Floor**

*COLLEGE OF ARTS AND SCIENCES:*

English Department Conference, SAC 305, 1:00-2:30

History Department Conference, SAC 304, 10:30-2:45

Psychology Department/Psi Chi Conference, SAC 305, 11:00-12:00

Writing & Rhetoric Program Conference, SAC 303, 11:45-3:15

*COLLEGE OF ENGINEERING AND APPLIED SCIENCES:*

Senior Design Presentations: SAC Auditorium, 9:00-11:00

**12:00 Welcome & Announcements — SAC Ballroom A**

Dr. Nicole Sampson, *Dean, College of Arts & Sciences*

Dr. Fotis Sotiropoulos, *Dean, College of Engineering & Applied Sciences*

**12:15 Lunch for participants & mentors — SAC Ballroom B**

**1:00 Keynote Lecture — SAC Auditorium**

“Neuroengineering and AI: Opportunities and Challenges in a Future Blurring the Lines between Mind and Machine” -Dr. Christopher J Rozell, *Georgia Institute of Technology*

*sponsored by Young Investigators Review*

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*Please join us also for the upcoming*

**URECA Art Exhibition — Paul W. Zuccaire Gallery — May 2-15**

*Reception: Thursday, May 2, 4:00-6:00*

## POSTER ARRANGEMENTS/ DISPLAYS

*\*Posters arranged alphabetically by department of faculty mentor.*

### **About Undergraduate Research & Creative Activities:**

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The UNDERGRADUATE RESEARCH & CREATIVE ACTIVITIES (URECA) program, founded in 1987, awards research funding and travel grants to undergraduates, and is a central point of contact for students and faculty engaged in research and creative endeavors. URECA helps bring together students and research mentors, hosts annual events to showcase student work, and supports undergraduates presenting at professional meetings/conferences. Check our URECA website for “Researcher of the Month” features. URECA is a program within the Office of the Provost/Division of Undergraduate Education and is funded in part by the Simons Foundation.

URECA  
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Karen Kernan, Director  
Brian Frank, Staff Assistant

**RESEARCH POSTERS/EXHIBITS**  
SAC Ballroom A, 10am – 4pm

<u>Exhibit/ Poster#</u>	<u>Student Presenter(s)</u>	<u>Project Title</u>	<u>Mentor(s)</u>
<b>1</b>	Amadi Agbomah	The Study of Yemoja, the African Goddess of the Ocean, through the Context of: the Black Womxn's Body, Art, + Performance	Tracey Walters <i>Africana Studies</i>
<b>2</b>	Tammir Smith	Black Women and Infant Mortality: Coincidence or Genocide?	Zebulon Miletsky <i>Africana Studies</i>
<b>3</b>	Rashmi Devadiga Brianna Leach Tasfia Wahid	Does Dental Topography Display Sexual Dimorphism?	John Fleagle <i>Anatomical Sciences</i>
<b>4</b>	Shahajahan Chowdhury Elyse Saucier ShuXian Chen Tianyun Zhao Chloe Ying	Amnesia Evaluation Application	Christopher Robin Page <i>Anesthesiology</i>
<b>5</b>	Zachary Hage Lauren Mistretta	Characterization of Fatty Acid Amide Hydrolase 2	Martin Kaczocha <i>Anesthesiology</i>
<b>6</b>	Elizabeth Varghese Sai Palati	Feasibility of Using Still Pictures as a Guidance for Bone Resection	Srinivas Pentyla <i>Anesthesiology</i>
<b>7</b>	Lauren Medina	Gender Differences of Health Knowledge among Stony Brook Students: An Exploratory Study	David Hicks <i>Anthropology</i>
<b>8</b>	Penpichaya Miyan	A 3D Analysis of Sacroiliac Joint Surface Topography among Primates	Gabrielle Russo <i>Anthropology</i>
<b>9</b>	Shelby Mohrs	Looking for Rootlets in All the Wrong Places	Elisabeth Hildebrand <i>Anthropology</i>
<b>10</b>	Lydia Myers	Geospatial Analysis of an Early Pastoral Site Near Lake Turkana, Kenya ~4,000 Years Ago	Elisabeth Hildebrand <i>Anthropology</i>
<b>11</b>	Durr-E-Ajam Riaz	Female Agonism in Nepal Gray Langurs: Food or Mate Competition?	Andreas Koenig Carola Borries <i>Anthropology</i>
<b>12</b>	Thomas Rigby	Avoidance of Active Nests by Juvenile Bald Eagles ( <i>Haliaeetus leucocephalus</i> ) along the James River, Virginia	Catherine Markham <i>Anthropology</i>
<b>13</b>	Julia-Anna Searson	B3glct Mutation Effects on Mouse Skull Cranial Base Morphology	Christopher Percival <i>Anthropology</i>
<b>14</b>	Samar Syeda	Modeling the Evolutionary Integration of Primate Limbs	Jeroen Smaers <i>Anthropology</i>
<b>15</b>	Xijun Wang	Endochondral and Intramembranous Skull Bone Volume and Density Differences in C57BL/6J and 129S1/SvImJ Mice	Christopher Percival <i>Anthropology</i>

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<b>16</b>	Anna Zavodszky	Functional Morphology of Chevron Bones in Mammals	Gabrielle Russo <i>Anthropology</i>
<b>17</b> [located in Physics]	Chris DeGrendele Jonathan Kazakov	Examples of Complex Band Structure	Matthew Reuter <i>Applied Mathematics &amp; Statistics</i>
<b>18</b>	Thomas Jaworski	A Cultural and Linguistic Analysis of Donald Keene's <i>No Longer Human: A Translation of Osamu Dazai's Ningen Shikkaku</i>	Eva Nagase <i>Asian &amp; Asian American Studies</i>
<b>19</b>	Ononah Ahmed	The Role of Actin Rich Protrusions in Sex Myoblast Migration and Differentiation in <i>C. elegans</i>	David Q. Matus <i>Biochemistry &amp; Cell Biology</i>
<b>20</b>	Jonathan Burianek	Generation of Tools to Study Sex Myoblast Migration in Male <i>C. elegans</i>	David Q. Matus <i>Biochemistry &amp; Cell Biology</i>
<b>21</b>	Daniel Cameron	Characterization of Skeletal Abnormalities in <i>B3glct</i> and <i>Pofut2</i> Mutant Mice	Bernadette Holdener <i>Biochemistry &amp; Cell Biology</i>
<b>22</b>	Kevin Catalan	The Mechanism of Enhancer Interference in the <i>Drosophila</i> Embryo	J. Peter Gergen <i>Biochemistry &amp; Cell Biology</i>
<b>23</b>	Garam Lee Joyce Che	Investigating Whether Incarvillateine Mediates its Antinociceptive Effects through Endocannabinoid Transport Inhibition	Dale Deutsch <i>Biochemistry &amp; Cell Biology</i>
<b>24</b>	Nimi Patel	The Crystallization of Newly Discovered Mouse Lipin 3 Domain to Gain Structural Insight into the Behavior and Function of the Protein	Michael Airola <i>Biochemistry &amp; Cell Biology</i>
<b>25</b>	Emily Richters	Histone Fold Motifs in TAFs and Transcription	Ed Luk <i>Biochemistry &amp; Cell Biology</i>
<b>26</b>	<b><u>SB iGEM Team</u></b> Ting-Ju Chiang Matthew Lee	Engineering Cyanobacteria to Secrete Sucrose	J. Peter Gergen <i>Biology, Undergraduate; Biochemistry &amp; Cell Biology</i>
<b>27</b>	Jahnvi Bansal Katelyn Neuman	The Effect of Fiber Alignment and Adhesiveness on the Viability and Growth of Endothelial Cells	David Rubenstein <i>Biomedical Engineering</i>
<b>28</b>	Jahnvi Bansal Eva Gallegos Steven Ghitis Bonnie Macaluso Katelyn Neuman	Novel Scaffold Fabrication Method: 3D Bio- Electrospinning-Printer	David Rubenstein <i>Biomedical Engineering</i>
<b>29</b>	Solyman Hatami Daniel Mahoney Daphne Tang	Development of Cancer-on-a-Chip Technology for the Study of Tumor Microenvironment and Metabolism	Helmut Strey <i>Biomedical Engineering</i>

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<b>30</b>	Nicole Hershkowitz Yosman Dhar Steven Crimarco Sishir Pasumarthy	A Family-Based Fitness Wearable for Monitoring Childhood Obesity	Mei Lin Chan <i>Biomedical Engineering</i>
<b>31</b>	Ryan Helbock	A Finite Element Analysis to Determine Optimal Balloon Inflation for Bicuspid Aortic Valve Disease	Danny Bluestein <i>Biomedical Engineering</i>
<b>32</b>	Sarah Levovitz	Analyzing the Linearity of Negative Feedback-Based Gene Circuit Expression with the Addition of a Degradation Tag	Gábor Balázi <i>Laufer Center for Physical &amp; Quantitative Biology, Biomedical Engineering</i>
<b>33</b>	Bonnie Macaluso Eugene Zaverukha	Estimation of Contact Stresses in the Ankle Joint Using Finite Element Analysis	Yi-Xian Qin <i>Biomedical Engineering</i>
<b>34</b>	Christopher Palmeri Sishir Pasumarthy Hanfei Qi Chanpreet Singh	Custom Image Analysis Algorithm for Analysis of Cytoskeleton and Morphology of Pre-adipocytes	Mei Lin Chan <i>Biomedical Engineering</i>
<b>35</b>	Brianne Polehinke	Flow-Induced Platelet Adhesion in Microchannels	Danny Bluestein <i>Biomedical Engineering</i>
<b>36</b>	Natalie Weiss	Patient-Specific Hemodynamic Analysis of Coronary Arteries	Wei Yin <i>Biomedical Engineering</i>
<b>37</b>	Hailey Greif	The Influence of Family Achievement Guilt on Well Being in First-generation College Students	Peter Caprariello <i>Business, College of</i>
<b>38</b>	Rebecca Hayman	Effects of Threats to Self-Worth on Willingness to Pay for Gifts	Paul M. Connell <i>Business, College of</i>
<b>39</b>	Amal Lukose	Competitive Balance in Major League Baseball and the National Basketball Association: A Comparison of the Two Leagues	Herbert Lewis <i>Business, College of</i>
<b>40</b>	Isabelle Oakland	Evaluating how Brands Operate within Romantic Relationships	Peter Caprariello <i>Business, College of</i>
<b>41</b>	Julianne Ortiz	Social Evaluations of College Students with Chronic Illnesses	Peter Caprariello <i>Business, College of</i>
<b>42</b>	Melanie Paul Austin	Negative Memories as Assets: Different Motives to Protect Special Negative and Positive Experiences over Time	Peter Caprariello <i>Business, College of</i>
<b>43</b>	Krystyna Poznanski	The Effects of Inauthentic Prosocial Behavior Displays on Perceivers' Prosocial Motivations	Peter Caprariello <i>Business, College of</i>
<b>44</b>	Frank Camarda	Caged Cyclopropenes With Improved Tetrazine Ligation Kinetics	Scott Laughlin <i>Chemistry</i>
<b>45</b>	YongLe He	Mutational Studies of The BLUF Protein BIsA	Jarrod French <i>Chemistry, Biochemistry</i>

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<b>46</b>	John Mannone	Synthesis of Second Generation C3-Difluoro Containing Caged Cyclopropenes for Controlling their Bioorthogonal Reactivity	Scott Laughlin <i>Chemistry</i>
<b>47</b>	Chloe Savino	Trojan Horse Theranostics for Bacterial Infections	Eszter Boros <i>Chemistry</i>
<b>48</b>	Kevin Tan	Synthesis of a Fluorescent Calcium Sensor to Image the Brain's Astrocytes	Scott Laughlin <i>Chemistry</i>
<b>49</b>	Daniel Thach	Multimodal Molecular Imaging Probes for Targeted Imaging of HER2 and PSMA	Eszter Boros <i>Chemistry</i>
<b>50</b>	Nim Tse	Density Functional Studies of Organic Medical Contaminants during Chlorination	Eric Patterson <i>Chemistry</i>
<b>51</b>	Helena Woroniecka	Elucidating the Signaling Mechanism of Photosensor YtvA via Ultrafast Spectroscopy: Role of a Conserved Asparagine in Downstream Signaling	Peter Tonge <i>Chemistry</i>
<b>52</b>	Julia Zambito	Synthesis of Novel Acyl Hydrazones as Inhibitors for Fungal GlcCer Synthesis	Iwao Ojima <i>Chemistry</i>
<b>53</b>	Jackie Zheng Nancy Li	High Flux Nanocellulose-Embedded Mixed Matrix Membrances	Benjamin Hsiao <i>Chemistry</i>
<b>54</b>	Ephraim Bryski	Analyzing Debris Motion Using Image Processing	Ali Farhadzadeh <i>Civil Engineering</i>
<b>55</b>	Avery Mack Roksana Asadi Michael Incardona	Optimization of Electric Vehicle Charging Stations: Facility Locations and Scheduling	Leila Hajibabai-Dizaji <i>Civil Engineering</i>
<b>56</b>	Anastasiya Suratova Joseph Lubrano Erlik Rodrigues Yanicel Fragoso Ramirez Alassane Thera	Brooklyn Multi-Story Residential Building  <i>*also a CEAS senior design presentation</i>	Frank Russo <i>NYS Center for Clean Water Technology &amp; Civil Engineering</i>
<b>57</b>	Adam Catto	Novel Methods for Splicing Topoi Using Semantic Fiberling Techniques	Anita Wasilewska <i>Computer Science</i>
<b>58</b>	Adam Ahmed Daniel Nasim Malik Padellan Amy Yan	Analysis of Water Quality in Jamaica Bay	Jeffrey Levinton <i>Ecology &amp; Evolution</i>
<b>59</b>	Tania Akther	Comparing Microbiomes between Adults and Larvae of Two Tropical Sponges: <i>Neopetrosia sigmafera</i> and <i>Xestospongia bocatorensis</i>	Robert Thacker <i>Ecology &amp; Evolution</i>

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<b>60</b>	Ariana Ambrosio Alexander Miles Eric Jiang Allen Na Nina Gu	Fitness Consequences of Cell to Cell Gene Expression Variation	Joshua Rest <i>Ecology &amp; Evolution</i>
<b>61</b>	Bianca Benayoun Ivana Newen Claudio Perinuzzi Osman Ekramul Haq Nuray Ozdemir	Nutrient Limitation for Phytoplankton Growth in New York State Jamaica Bay and Stony Brook Harbor	Jeffrey Levinton <i>Ecology &amp; Evolution</i>
<b>62</b>	<i>BIO 367- Spring 2019:</i> Adwoa Addai; Ernesto Amorelli; Ashliann Arditi; Temidayo Atanda-Ogunleye; Areeha Batool; Alejandra Becerra, Siddhi Bhagwat; Roman Bogomolny; Anna Cao; Daniela Castro; Joyce Che, Jakub Cwalinski; Benjamin Fudge; Jennifer Guevara; Swati Gupta; Omar Ibrahim, Jarif Imam, Aiseosa Irowa, Nazia Jamil, Samuel Khoo; Jonathan Lewis; David Li; Shuo Liu; Maryna Lytvynova Mullerman; Evelyn Mao; Srishti Mehta; Tamaya Moonsammy; Amanda Mullaney; Jin Ho Park; Amy Perla; Maverick Pham; Jeremy Portorreal; Rideeta Raquib; Ornella Riquelme; Tony Rizzo; Jarell San Jose, Jacqueline Thaw; Jiatong(Zoe) Zhang; Andres Zurita	Bacterial Diversity in Soil and Snow Found on Stony Brook University Campus	John True <i>Ecology &amp; Evolution</i>
<b>63</b>	Allen Na	Environmental Differences in Cell-to-Cell Expression Variation	Joshua Rest <i>Ecology &amp; Evolution</i>
<b>64</b>	Winnie Wang	Systematics of Porifera Using Nanopore Sequencing	Robert Thacker <i>Ecology &amp; Evolution</i>
<b>65</b>	Sean Fiola Raymond Hua	Optimal Network Topologies for Distributed Synchronization	Ji Liu <i>Electrical &amp; Computer Eng.</i>
<b>66</b>	Lauren Bunce	Understanding the Origins and Development of Martian Bedrock through Infrared Spectral Analysis	Deanne Rogers <i>Geosciences</i>
<b>67</b>	Kevin Gascott	Determining the Spectral Signature of Light-Toned Martian Rock through ENVI-Based Classification Methods	Deanne Rogers <i>Geosciences</i>



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<b>68</b>	Kevin Hatton	Uranium-Lead Dating of Petrified Wood in the Turkana Basin	Troy Rasbury <i>Geosciences</i>
<b>69</b>	Alexander Kling	Modal Abundances of EH3 Chondrites using Image Analysis of X-Ray Maps	Denton Ebel <i>Earth &amp; Planetary Sciences, American Museum of Natural History; Geosciences</i>
<b>70</b>	Nattarika Saengkhuankaeo	Examining Controls of Climate Condition through Lithium Analysis of Ordovician Brachiopods	Troy Rasbury <i>Geosciences</i>
<b>71</b>	Jemer Garrido Yixuan Du Jeffrey Wong	Does a Cervical Laminectomy in Rodents Affect 3D Kinematics of Reaching and Grasping Behavior?	Prithvi Shah <i>Health &amp; Rehabilitation Sciences</i>
<b>72</b>	Jemer Garrido Yixuan Du Jeffrey Wong	Three-Dimensional Reconstruction of a Comprehensive Reaching and Grasping Pre-Injury Model and its Use as a Baseline Standard for Spinal Cord Injury	Prithvi Shah <i>Health &amp; Rehabilitation Sciences</i>
<b>73</b>	Pemla Jagtiani	Comprehensive Investigation of Forelimb Kinematics During Overground Locomotion in Non-Injured Rats	Prithvi Shah <i>Health &amp; Rehabilitation Sciences</i>
<b>74</b>	Allan Mai	PKC $\gamma$ Area and Optical Density in the Corticospinal Tract as a Proxy to Correlate CST and Locomotor Function	Prithvi Shah <i>Health &amp; Rehabilitation Sciences</i>
<b>75</b>	Hema Rampersaud	Change in Excitability of the Intact Spinal Cord after Epidural Stimulation	Prithvi Shah <i>Health &amp; Rehabilitation Sciences</i>
<b>76</b>	Courtney Adler	STEM Representation in School Administrations on Long Island	Keith Sheppard <i>Institute for STEM Education</i>
<b>77</b>	Justin Goodridge Lucy Gordon	Measuring Active Learning in STEM Classrooms: Quantifying the Impact of Sampling Intensity on COPUS Instrument Scores	Ross Nehm Gena Sbeglia <i>Institute for STEM Education, Ecology &amp; Evolution</i>
<b>78</b>	Ruhana Uddin	Modeling Molecular Machinery of Muscles Outreach Program Assessment	Marvin O'Neal <i>Institute for STEM Education, Undergraduate Biology</i>
<b>79</b>	Ioulia Agrotou James Friedman Jessica Hartt Elise Millay	Productivity: Emergence of Morpheme -Free in 21st Century English	Mark Aronoff <i>Linguistics</i>
<b>80</b> [located in Physics]	Kiran Eiden	Learning Structured Classes of Semi-Deterministic Transducers	Jeffrey Heinz <i>Linguistics</i>
<b>81</b>	Eric Schieferstein	The Vowel Space of Southern Kurdish	Robert Hoberman <i>Linguistics</i>

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<b>82</b>	Steven Benz Philip Iaccarino Conor Kimmey Paul Sargunas	Non-toxic Phosphorus Based Flame Retardant for Use on Cotton Fabrics	Miriam Rafailovich <i>Materials Science &amp; Chemical Engineering</i>
<b>83</b>	Olivia Chen	Additive Manufacturing Battery Ink with Viscoelasticity and Meso-structural Dynamics	Karen Chen-Wiegart <i>Materials Science &amp; Chemical Engineering</i>
<b>84</b>	Bryan Conry Christin Abraham Jacky Chen Kitty Liu Kyle Talin	Effects of Polymer Additives on Crystallinity and Stability of Perovskite Solar Cells	Miriam Rafailovich <i>Materials Science &amp; Chemical Engineering</i>
<b>85</b>	Andrei Doilidov Sayid El-Saieh Shamilah Faria Priscilla Lo	The Effect of P12 Peptide on Fibrin Formation and Endothelial Cell Attachment on Polystyrene	Miriam Rafailovich <i>Materials Science &amp; Chemical Engineering</i>
<b>86</b>	Antonio Franciosa Chongguang Jin Jacky Liu Jaekuang Lee Man Ho Ma	Design and Optimization of Pyrolysis System to Produce Low Emission Charcoal from Biomass  <i>*also a CEAS senior design presentation</i>	Devinder Mahajan <i>Materials Science &amp; Chemical Engineering</i>
<b>87</b>	Chongguang Jin Jongho Park Marija Iloska Minjee Kim	CO Catalytic Oxidation on Pt and Pd Doped Boron Nitride Nanotube	Taejin Kim <i>Materials Science &amp; Chemical Engineering</i>
<b>88</b>	Kaylee Soderburg Na Li Walker Nichols Kevin Riegel Aristidis Mihalos	Effect of Graphene Oxide on Nafion and Fuel Cell Performance for Proton Exchange Membrane Fuel Cells	Miriam Rafailovich <i>Materials Science &amp; Chemical Engineering</i>
<b>89</b>	Joshua Vilkas <i>(Hebrew Acad. of the Five Towns and Rockaway)</i> Nicole Jacobsen <i>(Plainedge HS)</i>	A Novel Fire Retardant Solution to Mitigate the Onset of Wildfires	Miriam Rafailovich <i>Materials Science &amp; Chemical Engineering</i>
<b>90</b>	Brian Vo Ayodele Ajibade Matthew Rosengren Marcela Moran Karina Pena	Optimal 3D Printing Nozzle Temperature	Miriam Rafailovich <i>Materials Science &amp; Chemical Engineering</i>
<b>91</b>	Anson Zhou <i>(Patchogue -Medford HS)</i> Anyerlin Mora	Exposed $\gamma$ Chains on Three-Dimensional Fibrin(ogen) Structures Associated with Decreased <i>Staphylococcus aureus</i> Adhesion	Miriam Rafailovich <i>Materials Science &amp; Chemical Engineering</i>

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<b>92</b>	Justin Zhou <i>(Patchogue -Medford HS)</i> Vincent Zhang <i>(Sachem HS East)</i> Jonathan Goldschlag <i>(Hebrew Acad. of the Five Towns and Rockaway)</i>	The Influence of Substrate Mechanics and Exposure to TiO <sub>2</sub> Nanoparticles on <i>Staphylococcus aureus</i> Infection	Miriam Rafailovich <i>Materials Science &amp; Chemical Engineering</i>
<b>93</b>	John Dreher Cevat Taginik John Montesano	MEC Senior Design- Group 1: Festo: Variable Pitch Gripper	Jay Mendelson <i>Mechanical Engineering</i>
<b>94</b>	Brian Bernhard George Ogorodnik Kyle Wong	MEC Senior Design- Group 2: Autonomous Aircraft Control Systems	Noah Machtay Jay Mendelson <i>Mechanical Engineering</i>
<b>95</b>	Whitney Minnich Anthony Montalbano Mohamed Tantawy Matthew Padelli Jorge De La Cruz	MEC Senior Design- Group 3: HVAC Smoke Bomb Igniter	Sotirios Mamalis Jay Mendelson <i>Mechanical Engineering</i>
<b>96</b>	R. Bazan-Bergamino Christopher Moraitis Rajan Patel Christian Sutter	MEC Senior Design- Group 4: Automated Cocktail Machine	Benjamin Lawler Jay Mendelson <i>Mechanical Engineering</i>
<b>97</b>	Elif Kucukdilli Timothy Law Jonathan Kwan John Fernandez	MEC Senior Design- Group 5: Mobility Assistive Device for Paralysis	Anurag Purwar Jay Mendelson <i>Mechanical Engineering</i>
<b>98</b>	Justin Tufaro Hayley Fox Patrick O'Donnell Daniel Schreck	MEC Senior Design- Group 6: Solenoid Pull Force Tester	Jay Mendelson <i>Mechanical Engineering</i>
<b>99</b>	William DaSilva Gloria Lee	MEC Senior Design- Group 7: Umbrella Wheelchair	Jeff Ge Jay Mendelson <i>Mechanical Engineering</i>
<b>100</b>	Bowei Zang Zhuohua Ye Zhengke Guo	MEC Senior Design- Group 8: Method of Additive Manufacturing for Aluminum Heat Exchangers	Jay Mendelson <i>Mechanical Engineering</i>
<b>101</b>	Talal Mian Christian Cummings Daniel Wu	MEC Senior Design- Group 9: NYC School Construction Authority: Conversion of Boilers to Cleaner Fuels	Jay Mendelson <i>Mechanical Engineering</i>
<b>102</b>	Kevin Ng-Yung Seok Hyun Jeong Seok Eun Yoon Jun Han	MEC Senior Design- Group 10: Leverage Additive Manufacturing in Cooling Fans and Heat Exchangers	Jay Mendelson <i>Mechanical Engineering</i>

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<b>103</b>	Brayan Ruiz Arias John Gandolfo John Park	MEC Senior Design- Group 11: Design of a Recovery and Navigation System for High-Powered Rocket / NASA <i>*also a CEAS senior design presentation</i>	Sotirios Mamalis Jay Mendelson <i>Mechanical Engineering</i>
<b>104</b>	Patrick Thall Fernando Franco Thomas Esposito-Kelley	MEC Senior Design- Group 12: Digital Lightweight Structure Design for a Drone Using Lattice Materials	Lifeng Wang Jay Mendelson <i>Mechanical Engineering</i>
<b>105</b>	Adam Piotrowski Dylan Trott Joseph Long Mery Ibrahim Spencer Hsu	MEC Senior Design- Group 13: Collapsible Gantry System	Robert Kukta Jay Mendelson <i>Mechanical Engineering</i>
<b>106</b>	Brendan Zotto Avishai Cohen James Haggerty	MEC Senior Design- Group 14: Zero Emission Electric Motorcycle (ZEM1) <i>*also a CEAS senior design presentation</i>	Benjamin Lawler Harbans Dhadwal Jay Mendelson <i>Mechanical Engineering</i>
<b>107</b>	Yongxin Guo Nicholas Lamberson Christos Liopyros	MEC Senior Design- Group 15: Integrating an Active Stability and Altitude Control Unit with the Structural and Propulsion Elements of a High-Powered Rocket <i>*also a CEAS senior design presentation</i>	Sotirios Mamalis Jay Mendelson <i>Mechanical Engineering</i>
<b>108</b>	Nicolas Mercier Evan Kusa Adam Jones Weibin Gu	MEC Senior Design- Group 16: Controllable Pitch Propeller	David Hwang Jay Mendelson <i>Mechanical Engineering</i>
<b>109</b>	Gary Huang Bertram Wong Helen Yang Justin Wu	MEC Senior Design- Group 17: Conversion of Boilers to Cleaner Fuels	Jay Mendelson <i>Mechanical Engineering</i>
<b>110</b>	Andrew Qazi Brando Vizcarra Jameela Middleton Paul Egan Anders	MEC Senior Design- Group 18: Variable Pitch End of Arm Tool	Jay Mendelson <i>Mechanical Engineering</i>
<b>111</b>	Fan Chen Steven Huang Xiaoping Wang Tzu Hung Jeffery Yeh	MEC Senior Design- Group 19: Machine Design to Improve Productivity of Industrial Die-Cutting Machines	Jay Mendelson <i>Mechanical Engineering</i>
<b>112</b>	Gregory Stimitz Zarbab Ahmad Skyler Chen	MEC Senior Design- Group 20: Robotic Device for Drills and Conditioning of Football Players	Jeff Ge Jahangir Rastegar <i>Mechanical Engineering</i>
<b>113</b>	Rushikumar Ray Sagardeep Singh Purba Atandriila Aravinth Pushparaj	MEC Senior Design- Group 21: Autonomous Drone for Collecting Water Samples	Kedar Kirane Jahangir Rastegar <i>Mechanical Engineering</i>

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<b>114</b>	Anisur Rahman Abel Thomas Zach Mendleson Matthew Miller Nicholas Baron	MEC Senior Design- Group 22: Thin-Film Indirect Evaporative Cooler	Jon Longtin Jahangir Rastegar <i>Mechanical Engineering</i>
<b>115</b>	Vanessa Castillo Paul Paczkowski Marc Richer Alexis Serrano	MEC Senior Design- Group 23: Walk Assist Device for Patients with Neuromuscular Disability	Anurag Purwar Jahangir Rastegar <i>Mechanical Engineering</i>
<b>116</b>	Jeongmin Park Jessie Ye Wisdom Zhao	MEC Senior Design- Group 24: Water Sampler Drone Attachment	Kedar Kirane Jahangir Rastegar <i>Mechanical Engineering</i>
<b>117</b>	Frederick Kozlowski Emanuel Acosta Ahsanul Torza	MEC Senior Design- Group 25: Motion Simulator	Jon Longtin Jahangir Rastegar <i>Mechanical Engineering</i>
<b>118</b>	Jae Hyeon An Jun (Albert) Yang Yuki Yoshinata	MEC Senior Design- Group 26: Automatically Deploying UAV Payload for Level 2 High Power Rocket <i>*also a CEAS senior design presentation</i>	Nilanjan Chakraborty Jahangir Rastegar <i>Mechanical Engineering</i>
<b>119</b>	Sebastian Sackey Alzahra Ahmed Thomas Crimarco Ignacio Franchino	MEC Senior Design- Group 27: Force Balanced Radial Piston Compressor	David Hwang Jahangir Rastegar <i>Mechanical Engineering</i>
<b>120</b>	Brian Montalbano Winnie Wong Michael Franks Justin Owens	MEC Senior Design- Group 28: Molecular Drone Accessory	Anurag Purwar Jahangir Rastegar <i>Mechanical Engineering</i>
<b>121</b>	Justin Canaperi Paul Li Jenry Nieto Martinez	MEC Senior Design- Group 29: CNC Tube Notcher	Noah Machtay Jahangir Rastegar <i>Mechanical Engineering</i>
<b>122</b>	Yifan Yang Zihan Yu Shuowei Kang Yumian Zhu	MEC Senior Design- Group 30: An Under-Actuated Robot Gripper with Stable Grip	Jeff Ge Jahangir Rastegar <i>Mechanical Engineering</i>
<b>123</b>	Emily Aviles Jamal Mirville Justin Neblett	MEC Senior Design- Group 31: Sustainable Water Filtration System	Robert Kukta Jay Mendelson <i>Mechanical Engineering</i>
<b>124</b>	Brendan Raferty Josiah Tyte Jerry Faustini	MEC Senior Design- Group 32: Development of a Mechanical Hydraulic Ram Pump to be Used for Aid in Small Communities that Must Travel for Water	Lin-Shu Wang Jahangir Rastegar <i>Mechanical Engineering</i>

<u>Exhibit/ Poster#</u>	<u>Student Presenter(s)</u>	<u>Project Title</u>	<u>Mentor(s)</u>
<b>125</b>	Rodrigo Ristow Hadlich Ze Zhou Li Syeda Abbas Fabio Flores	MEC Senior Design- Group 33: Agricultural Drone	Benjamin Lawler Jahangir Rastegar <i>Mechanical Engineering</i>
<b>126</b>	Khurram Malik Christian Smith Nicholas Tagliente Nafis Abedin Faridjon Kurbanov Christian Smith	MEC Senior Design- Group 34: Gutter Cleaning Robot Modular Drone Attachment	Anurag Purwar Jahangir Rastegar <i>Mechanical Engineering</i>
<b>127</b>	Wei Liao Haifeng Zeng Xinyi Sun	MEC Senior Design- Group 35: An Under-Actuated Robot Gripper with Stable Grip	Jeff Ge Jahangir Rastegar <i>Mechanical Engineering</i>
<b>128</b>	James Fox Courtney Watson Renee Payumo Jonathan Ma	MEC Senior Design- Group 36: Remotely Actuated Mechanical Arm for Training of Football Players	Jeff Ge Jahangir Rastegar <i>Mechanical Engineering</i>
<b>129</b>	Andrew Nwuba Austin Giordano Mohammad Islam Chris Bossert	MEC Senior Design- Group 37: Digital Speckle System for Mapping Surface Flatness, Warpage and Vibrational Modes	Fu-pen Chiang Jahangir Rastegar <i>Mechanical Engineering</i>
<b>130</b>	Julianna Volpe Adam Heller Dorothy Hurtle	MEC Senior Design- Group 38: Motorized Skateboard for Handling Large Cracks, Grass and Dirt	Benjamin Lawler Jahangir Rastegar <i>Mechanical Engineering</i>
<b>131</b>	Julia Stone Prangon Ghose Brendan Zotto Ella Holme Joe Maalouf Sasha Sokolov Jordan Young	Tetra, University Rover Challenge 2019- Stony Brook Robotics Team	Nilanjan Chakraborty <i>Mechanical Engineering</i>
<b>*stage</b>	Jenry Nieto Martinez	Stony Brook Motorsports	Noah Machtay <i>Mechanical Engineering</i>
<b>132</b>	Timothy Darby	Targeting Sphingosine Kinase 1 in Cancers Lacking p53 or Harboring Mutant p53	Lina Obeid <i>Medicine</i>
<b>133</b>	Jesse Pace	Podocyte-parietal Epithelial Cell Cross-Talk: a Role for Paracrine KLF4-STAT3 Signaling in Parietal Epithelial Cell Proliferation in Proliferative Glomerulopathies	Sandeep Mallipattu <i>Medicine</i>
<b>134</b>	Rideeta Raquib	Sensitization of Cancer Cells to Chemotherapeutic Treatment by Inhibition of Diacylglycerol O-Acyltransferase 2 Protein (DGAT2)	Lina Obeid <i>Medicine</i>
<b>135</b>	Daniel Walocha Varun Reddy	Regulation of Ceramide Synthase 1 and Ceramide Synthase 1-Mediated Growth Inhibition by Hsp27	Can Senkal <i>Medicine</i>

<u>Exhibit/ Poster#</u>	<u>Student Presenter(s)</u>	<u>Project Title</u>	<u>Mentor(s)</u>
<b>136</b>	Eric Cheang	E4ORF3 Recruitment, SUMOylation and the DNA damage protein SPRTN	Patrick Hearing <i>Molecular Genetics &amp; Microbiology</i>
<b>137</b>	Jean-Pierre Makheni	The Role of Intestinal Interleukin-17A Signaling in the Regulation of Metabolic Activities	Pawan Kumar <i>Molecular Genetics &amp; Microbiology</i>
<b>138</b>	Jin Ho Park	Studying the Molecular Mechanisms of <i>Porphyromonas gingivalis</i> Fimbrial Assembly	David Thanassi <i>Molecular Genetics &amp; Microbiology</i>
<b>139</b>	Sonika Rathi Suzanne Tawch	IL-22 signaling in Paneth cells is critical for regulating gut microbiota colonization	Pawan Kumar <i>Molecular Genetics &amp; Microbiology</i>
<b>140</b>	Rin Yang	Developing a Vaccine for Salmonella typhimurium using Listeria monocytogenes	Brian Sheridan <i>Molecular Genetics &amp; Microbiology</i>
<b>141</b>	Emma Bonk	Quantifying Spinal Cord Injury Sites in Rats with Mid-Thoracic Contusions	William Collins <i>Neurobiology &amp; Behavior</i> Irene Solomon <i>Physiology &amp; Biophysics</i>
<b>142</b>	Stephen Bruno	The Effect of Sucrose on the Recruitment of Inhibitory Neuron Activity in the Primary Gustatory Cortex	Arianna Maffei <i>Neurobiology &amp; Behavior</i>
<b>143</b>	Rohan Hofland	Cysteine Rich Domain Neuregulin1's Role in the Regulation of Neuronal Development in the Cortex	Lorna Role <i>Neurobiology &amp; Behavior</i> David Talmage <i>Pharmacological Sciences</i>
<b>144</b>	Michael Liu	Investigating the Functional Significance of Subconductance States in NMDA Receptors Containing Disease-associated Missense Mutation	Lonnie Wollmuth <i>Neurobiology &amp; Behavior</i>
<b>145</b>	Nirali Mandavawala	Role of the Cholinergic System in Age-Related Cognitive Decline	Lorna Role <i>Neurobiology &amp; Behavior</i> David Talmage <i>Pharmacological Sciences</i>
<b>146</b>	Kole Nikprelaj Dmytro Mysak Kelly Greenwood	Hypoxia-induced modulation of reflex micturition: influence of bladder volume	William Collins <i>Neurobiology &amp; Behavior</i> Irene Solomon <i>Physiology &amp; Biophysics</i>
<b>147</b>	Anastasia Slavutsky	Optimizing Homology-Directed and Homology-Independent CRISPR/Cas9-Mediated Insertions In Zebrafish	Howard Sirotkin <i>Neurobiology &amp; Behavior</i>
<b>148</b>	Alexander Chirokikh	Characterizing the Effects of Methylphenidate Dosage and Dosing Regimen on Bone Integrity	David Komatsu <i>Orthopaedics</i>

<u>Exhibit/ Poster#</u>	<u>Student Presenter(s)</u>	<u>Project Title</u>	<u>Mentor(s)</u>
<b>149</b>	Kari Iocolano	Effects of Calpain Inhibition on the Recovery from Transection versus Crush Injuries to Rat Sciatic Nerves	David Komatsu <i>Orthopaedics</i>
<b>150</b>	Hamza Allaham	“Tackle and Bait”: Keratin 17 exports Nuclear Proteins in Pancreatic Cancer	Luisa F. Escobar-Hoyos Kenneth Shroyer <i>Pathology</i>
<b>151</b>	Meghan Bialt-DeCelle	Discovery of Small Molecule Probes for PD1, PD-L1 and B7H4 Immune Checkpoints	John Haley <i>Pathology</i>
<b>152</b>	Ryan Kawalerski	Oncogenic Mechanism of Soluble Keratin 17 Offers Potential Therapeutic Vulnerability in Pancreatic Cancer	Luisa F. Escobar-Hoyos Kenneth Shroyer <i>Pathology</i>
<b>153</b>	Malik Padellan	2D vs 3D Tumor Models for Analyzing Resistance of Chemical and Radiation Therapy	Natalia Marchenko <i>Pathology</i>
<b>154</b>	Alexandra Peterson	Mass Spectroscopy of Small-Scale Metabolites and Characterization of Instrument Bias in LC-MS	Adam Rosebrock <i>Pathology</i>
<b>155</b>	Melvin Li	Lunar Simulants Alter Macrophage Survival and Function	Stella Tsirka <i>Pharmacological Sciences</i>
<b>156</b>	Irena Pigulevskiy	An Investigation into the Effect of Exercise Derived Exosomes on Oligodendrocyte Development	Holly Colognato <i>Pharmacological Sciences</i>
<b>157</b>	Jessica Tom	Characterization of Clinically relevant c-Abl Kinase Mutants to Determine Drug Susceptibility	Markus Seeliger <i>Pharmacological Sciences</i>
<b>158</b>	Jessica Vilas-Boas	Binding Kinetics Distinguish Novel Type I and Type II Kinase Inhibitors	Markus Seeliger <i>Pharmacological Sciences</i>
<b>159</b>	Erin Bennett	Analysis of a Double-Lined Pre-Main Sequence Binary Star System In Corona Australis	Frederick Walter <i>Physics &amp; Astronomy</i>
<b>160</b>	Emily Biermann	Electron Ion Collider Simulated Detection of Lepton Flavor Violation via Displaced Tau Vertex	Ernst Sichtermann <i>Lawrence Berkeley National Laboratory</i>
<b>161</b>	Leonardo Castillo Veneros	Control and Optimization of Quantum Computing Systems	Eden Figueroa <i>Physics &amp; Astronomy</i>
<b>162</b>	Michael Dapolito	Experimental Violation of Bell’s Inequality	Harold Metcalf <i>Physics &amp; Astronomy</i>
<b>163</b>	Chris DeGrendele	Radiative Shocks and Verifying Astrophysical Codes	Alan Calder <i>Physics &amp; Astronomy</i>
<b>164</b>	Kiran Eiden	Dynamics of Thermonuclear Flame Fronts in Type I X-ray Bursts	Michael Zingale <i>Physics &amp; Astronomy</i>
<b>165</b>	Iliia Goro	Analysis of Nova Light Curves	Frederick Walter <i>Physics &amp; Astronomy</i>



<u>Exhibit/ Poster#</u>	<u>Student Presenter(s)</u>	<u>Project Title</u>	<u>Mentor(s)</u>
<b>166</b>	Eial Kestelman	Analysis of the Changes in Magnitude, Amplitude, and Period of EF Eridani	Frederick Walter <i>Physics &amp; Astronomy</i>
<b>167</b>	Dmitriy Kim	Reconstructing the Nucleus from its Fragments in an Electron Ion Collider	Abhay Deshpande Barak Schmookler <i>Physics &amp; Astronomy</i>
<b>168</b>	Andrea Londono	Free Space Automatic Alignment System for Quantum Communication	Eden Figueroa <i>Physics &amp; Astronomy</i>
<b>169</b>	Gregory Matousek	Identification and Analysis of Deeply Virtual Meson Production for a Future Electron Ion Collider	Abhay Deshpande <i>Physics &amp; Astronomy</i>
<b>170</b>	Jeffrey Michel	Lithium in Novae—a Possible Source for Universal Lithium Abundance	Frederick Walter <i>Physics &amp; Astronomy</i>
<b>171</b>	Blaire Ness	Exploring the Properties of a Laterally Propagating Convective Flame	Michael Zingale <i>Physics &amp; Astronomy</i>
<b>172</b>	Eunji Oh	An Optical Ring Lattice for Ultracold Atom Experiments	Dominik Schneble Martin Cohen <i>Physics &amp; Astronomy</i>
<b>173</b>	Marisa Petrusky	Determining the Angular Dependency of Cherenkov Radiation in Quartz	Abhay Deshpande <i>Physics &amp; Astronomy</i>
<b>174</b>	Austin Polanco	Using Machine Learning to Identify Hidden Molecular Order in Water	Marivi Fernandez-Serra <i>Physics &amp; Astronomy</i>
<b>175</b>	Owen Steele	Modeling Metamaterials in COMSOL for Future Use in Detecting Cherenkov Radiation	Axel Drees <i>Physics &amp; Astronomy</i>
<b>176</b>	Erika Nemeth	Mesenchymal Stem Cell-Based Delivery of Gene-Silencing Products: Toward a Biological Therapy	Peter Brink <i>Physiology &amp; Biophysics</i>
<b>177</b>	Jerin Thomas	Activation of Activated Cdc42-associated Tyrosine Kinase by Src	Todd Miller <i>Physiology &amp; Biophysics</i>
<b>178</b>	Hyun A Kim	The Effects of Experiencing Flood on Climate Change Belief and Preventive Action	Peter DeScioli <i>Political Science</i>
<b>179</b>	Eilon Silver-Frankel Zu Jie Zheng Philip Tubiolo Luis Espinoza Alicia Calder Ka La Aleksandra Piekarz	Linear Modeling of Individual Differences in Working Memory and Cognitive Performance	Jared Van Snellenberg <i>Psychiatry</i>
<b>180</b>	Sara Tramazzo	Collateral Report Improves Accuracy of Assessment in Schizophrenia	Roman Kotov <i>Psychiatry</i>
<b>181</b>	Ashliann Arditi	The Impact of Stressful Life Events on Psychotic Symptoms: Transdiagnostic Evidence from a Longitudinal Cohort Study	Aprajita Mohanty <i>Psychology</i>

<u>Exhibit/ Poster#</u>	<u>Student Presenter(s)</u>	<u>Project Title</u>	<u>Mentor(s)</u>
<b>182</b>	Anndrika Bhatia Jaspreet Kaur	Chronic Stress on Executive Functioning during Adolescence	Daniel Klein <i>Psychology</i>
<b>183</b>	Nicole DeSantis Ersha Kumar Krystalle Lyons	Maternal Depression and Children's Neural Reward Processing	Kristin Bernard <i>Psychology</i>
<b>184</b>	Renee Gilbert	Assessing Older Adults' Perceptions of Health: A Qualitative Study	Stacey Scott <i>Psychology</i>
<b>185</b>	Alexa Gombert Lee Ann Santore	Self-reported Social Anxiety in Youth with ASD Predicts Ability to Identify Anger in Peers	Matthew Lerner <i>Psychology</i>
<b>186</b>	Timur Mukhammadov	Associative Learning and Cerebellar Neurogenesis in Adult <i>Chrysemys picta</i>	Alice Powers <i>Psychology</i>
<b>187</b>	Fatema Noor Michelle Nemirovsky	The Association Between Parent and Child Relationship and Levels of Social Competence in Youth with ASD	Matthew Lerner <i>Psychology</i>
<b>188</b>	Nawrin Nishat	Sibling Status and Theory of Mind in Adolescents with Autism Spectrum Disorder	Matthew Lerner <i>Psychology</i>
<b>189</b>	Lee Ann Santore Divya Kumar Alexa Gombert	Direct Experience and Increased Knowledge, not Formal Training, Predict Primary Care Providers' Confidence in Addressing Autism Spectrum Disorder-Specific Needs	Matthew Lerner <i>Psychology</i>
<b>190-194:</b>	PSY 495/496:	<u><i>PSYCHOLOGY HONORS PROGRAM:</i></u>	Patricia Whitaker- <i>Psychology</i>
<b>190</b>	Hung Wei Bernie Chen	Concurrent Irritability and Anxiety Predict Peer Victimization	Nicholas Eaton <i>Psychology</i>
<b>191</b>	Gianna D'Ambrozio	Judgments of Health Behaviors Implicate a Self-Enhancement Rather Than Self-Centric Bias	Antonio Freitas <i>Psychology</i>
<b>192</b>	Dahae Julia Jun	Sex Differences in Activation of Brain Areas involved in Fear Memory and Extinction	Ryan Parsons <i>Psychology</i>
<b>193</b>	Kyle Mastropietro	Autism Spectrum Quotient Score as a Predictor of Moral Judgments and Memory Distortion for Event Details	Nancy Franklin <i>Psychology</i>
<b>194</b>	Samantha Romano	Associations between Childhood Maltreatment, Adult Attachment Patterns, and Psychopathology among Child Protective Services-Referred Parents	Kristin Bernard <i>Psychology</i>
<b>195</b>	Pauline Boning Huang Julie Leong	MRI Staging of Axillary Lymph Nodes in Breast Cancer	Tim Duong <i>Radiology</i>
<b>196</b>	Thomas Ren Pauline B. Huang Julie Leong Jason Ha Isha Punn	The Effects of MRI Axillary Lymph Node Volume on Recurrence-Free Survival Status with Stratification by Neoadjuvant Therapy Response and Molecular Subtypes in Breast Cancer Patients	Tim Duong <i>Radiology</i>

<u>Exhibit/ Poster#</u>	<u>Student Presenter(s)</u>	<u>Project Title</u>	<u>Mentor(s)</u>
<b>197</b>	Klaudia Ciszewska	Systematic Review of Global Pediatric Health Outcomes	Catherine Marrone <i>Sociology</i>
<b>198</b>	Maria Alvarado Brian Ho Emily Stevenson Sarah Tilatitsky	The Effect of Ivermectin on <i>Lactuca sativa</i>	Sharon Pochron <i>SoMAS</i>
<b>199</b>	Patricia Cano Gabiella Eng Evan Lo	An Interdisciplinary Study of Fayetteville Green Lake as a Window to the Ancient, Oxygen-Free Earth	Ashley Cohen <i>SoMAS</i>
<b>200</b>	Cora DeLucia	Geospatial Analysis of Water Pollution in Estuaries and Rivers in Coastal Oregon	Maria Brown <i>SoMAS</i>
<b>201</b>	Karim Hanna Jen Meikle William Moore Samantha Murphy Riley Pena	Roundup Impact on Earthworm Reproductive System	Sharon Pochron <i>SoMAS</i>
<b>202</b>	Hogyum Joo Jennifer Meikle	Did You Know?: an Awareness Assessment on Stony Brook University's Hidden Gem, Ashley Schiff Park Preserve	Sharon Pochron <i>SoMAS</i>
<b>203</b>	Megha Kanabar Aditya Mall Michael Yudell Zimuzo Ezedum Anne Littleton Hira Khan Ashra Mirza	Does Roundup Induce Neurotoxicity in Madagascar Hissing Cockroaches?	Sharon Pochron <i>SoMAS</i>
<b>204</b>	Mina Karimi	The True Cost of Electricity	Arlene Cassidy <i>SoMAS</i>
<b>205</b>	Belinda Louie Yugaan Mehta Ivana Newen Nuray Ozdemir Roman Sahibzada	Quantifying the Sub-Lethal Effect of RU on Earthworms Over Time	Sharon Pochron <i>SoMAS</i>
<b>206</b>	Katherine McKeown	High Resolution Observations of the Dissipation of a Violent Tornado on 9 May 2019 Near Sulphur, Oklahoma	Michael French <i>SoMAS</i>
<b>207</b>	Samantha Mendoza Brett Keeler	Human and Animal Traffic through Ashley Schiff Park Preserve on Stony Brook University Campus	Sharon Pochron <i>SoMAS</i>
<b>208</b>	Mateo Mezc	Can Harm Come from Doing Good? Assessing the Toxicity of Residual Ash Deposits From Improved Cookstove Technologies	Sharon Pochron, <i>SoMAS</i> Warren Sanderson, <i>Economics</i>
<b>209</b>	Amanda Mullaney	An Assessment of Health, Healthcare Access, and Traditional Versus Modern Medicine Use in Remote Communities of the Madagascar Rainforest	Sharon Pochron <i>SoMAS</i>

<u>Exhibit/ Poster#</u>	<u>Student Presenter(s)</u>	<u>Project Title</u>	<u>Mentor(s)</u>
<b>210</b>	Sai Peng	Habitat Range, Mortality Risk and Future Plan for Black Bear in Florida	Maria Brown <i>SoMAS</i>
<b>211</b>	Mia Ramirez Alyssa Mikesh Kyna Reyes Eugene Chung Mateo Mezic	Effect of Roundup Ready <i>Glycine max</i> Seeds on Soil Health, Possible Threat to <i>Eisenia fetida</i> Communities and Microbe Health	Sharon Pochron <i>SoMAS</i>
<b>212</b>	Jennifer Repp	Yellowstone on Fire: An Object-Based Image Analysis of Burn Recovery in Yellowstone National Park	Donna Selch <i>SoMAS</i>
<b>213</b>	Courtney Stuart Mary Bertschi	Piranha Problems: Assessing the Status of Peruvian Amazon Fisheries in a Changing World	Maria Brown <i>SoMAS</i>
<b>214</b>	Kyle Walter	A Geospatial Analysis of Potential Impacts the Great Pacific Garbage Patch Has on Laysan Albatross and Bluefin Tuna	Maria Brown <i>SoMAS</i>
<b>215</b>	Magdalena Wrobel	Investigation of Westward Recurring Tropical Cyclone Tracks for the Western North Atlantic Basin	Brian Colle <i>SoMAS</i>
<b>216</b>	Adam Abbas	Tumor Recurrence in the Treatment of Newly Resected Wound Beds with Wound-VAC Dressings	Gurtej Singh <i>Surgery</i>
<b>217</b>	Sourish Rathi Cameron Dean	Coronary Artery Bypass Graft (CABG): Assessment of Arterial, Venous and Synthetic Grafts	Gurtej Singh <i>Surgery</i>
<b>218</b>	Alexandra Eck Ezzeldin Enan	Implementation of Aquaponics in Remote Villages of Madagascar to Reduce Malnutrition	Elizabeth Hewitt <i>Technology &amp; Society</i>
<b>{219}</b> withdrawn	Nadira Chowdhury	Queer Muslim Solidarities: Re-Imagining Bordered Bodies	Liz Montegary <i>Women's, Gender, &amp; Sexuality Studies</i>
<b>220</b>	Yasmin Fouchong-Brown	LGBTQ* Youth: Homelessness, Child Welfare, and Oppression	Mary Jo Bona, Melissa Forbis <i>Women's, Gender, &amp; Sexuality Studies</i>
<b>221</b>	Kelsey Hackett	Weathered Women: How Minority Stress Drives Black Maternal Mortality	Lisa Diedrich <i>Women's, Gender, &amp; Sexuality Studies</i>
<b>222</b>	Christine Jacob	Political Unrest in Sabarimala: Analyzing the Implications Giving Women Autonomy	Lisa Diedrich <i>Women's, Gender, &amp; Sexuality Studies</i>
<b>223</b>	Isha Joshi	Sexual Education and Youth Solidarity Resistance: A pilot study	Liz Montegary <i>Women's, Gender, &amp; Sexuality Studies</i>
<b>224</b>	Farzana Khan	The Patriarchal Politics of Prayer: Analyzing Fabricated Gendered Language Using a Feminist Lens	Lisa Diedrich <i>Women's, Gender, &amp; Sexuality Studies</i>

<u>Exhibit/ Poster#</u>	<u>Student Presenter(s)</u>	<u>Project Title</u>	<u>Mentor(s)</u>
<b>225</b>	Srishti Mehta	The Medicalization of Birth and the Rising Rate of C-Sections	Mary Jo Bona <i>Women's, Gender, &amp; Sexuality Studies</i>
<b>226</b>	Annalisa Myer	Interpreting <i>Tongzhi</i> : Situating the History of Sexual Minorities in China	Lisa Diedrich <i>Women's, Gender, &amp; Sexuality Studies</i>
<b>227</b>	Maliha Rishat	Gender Roles and Bangladeshi Immigration: The Before and After	Nancy Hiemstra <i>Women's, Gender, &amp; Sexuality Studies</i>
<b>228</b>	Briana Rosenberg	They're Here, They're Queer, and Their Depression is Severe: Increasing LGBTQ+ Adolescents' Access to Mental Healthcare Services through Online and Mobile Interventions	Lisa Diedrich <i>Women's, Gender, &amp; Sexuality Studies</i>
<b>229</b>	Emery Rossi	Onto the Streets: Sex Work, Activist, and Legislative Futures in a Post SESTA-FOSTA World	Lisa Diedrich <i>Women's, Gender, &amp; Sexuality Studies</i>
<b>230</b>	SB Young Investigators Review	Young Investigators Review	<i>Interdisciplinary – involving mentors from multiple departments</i>

\*\*\*The Celebration provides an informal venue for student researchers to present work in progress. Data presented may be preliminary and presentations do not constitute scientific publications. Data and findings presented at the symposium or included in the abstracts may not be distributed, reported or referenced elsewhere without the written permission of the corresponding (faculty) author.

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**ENGLISH DEPARTMENT CONFERENCE**  
*Student Activities Center, Room 305*

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Student Presentations (1:00-2:30)

**Whitman's Artistic Training Ground**

Emma Cesario; Advisor: Susan Scheckel, *Department of English*

**Inventing to Gain Deeper Insight: Emotional Truth in Creative Nonfiction and other Genres**

Robyn Duncan; Advisor: Jeffrey Santa Ana, *Department of English*

**Cognitive Tools in Angelic and Demonic Contact**

Liam Keith; Advisor: Amy Cook, *Department of English*

**Kawaii desu ne!!! 🥰 : Emojis and the Semiotics of "Cute"**

Alijan Ozkiral; Advisor: Elyse Graham, *Department of English*

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**HISTORY DEPARTMENT CONFERENCE**  
*Student Activities Center, Room 304*

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Student Presentations (10:30-2:45)

*Welcome / Session One: 10:30-12:30*

**Theodore Roosevelt's Assassination Incident of 1903**

Nava Berger; Advisor: Nancy Tomes, *Department of History*

**Why They Couldn't Kill Hitler: An Analysis on the Six Attempts on Adolf Hitler's Life**

Haley Jaronczyk; Advisor: Nancy Tomes, *Department of History*

**The Opera of Rajneeshpuram: The Curious Tale of a Different Sort of Domestic Terrorism**

Tyler Palmieri; Advisor: Nancy Tomes, *Department of History*

**Eugenics and Socialist Intellectuals in Pre-War Britain**

Jared Fitzsimons; Advisor: Susan Hinely, *Department of History, Program in Writing & Rhetoric*

**"Nearer to God": Practice and Belief in Shaker Community Formation and Codification**

Hillary Ford; Advisor: April Masten, *Department of History*

**Accepting the Invitation: Proselytizing, Political Islam, and the Tablighi Jamaat in Post-Soviet Kyrgyzstan**

Griffin DeGaetano; Advisor: Shobana Shankar, *Department of History*

**The Fasting Experiment**

Bridget Kennedy; Advisor: Nancy Tomes, *Department of History*

*LUNCH BREAK (12:30)*

*History Department Conference - Session Two: 1:00-2:45*

**The Turning Point of Jiang's China (1:00)**

Yimong Zhong; Advisor: Michael Barnhart, *Department of History*

**The Evolution of American Bank Robberies and Burglaries**

Samantha Sckipp; Advisor: Wilbur Miller, *Department of History*

**The Papist Way: Popish Plots and Anti-Catholic Sentiments in Seventeenth Century Colonial America**

Cassandra Voulo; Advisor: Ned Landsman, *Department of History*

**Closing Remarks**

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**PSYCHOLOGY / PSI CHI CONFERENCE**  
*Student Activities Center, Room 305*

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Student Presentations (11:00 – 11:45)

**A Longitudinal Study of Grey Matter Volume Loss in Parkinson's Disease**

Janie Choi; Advisor: Hoi-Chung Leung, *Department of Psychology*

**Baseline Demographic and CSF Markers Associated with the Progression of Both Cognitive and Motor Deficits in Parkinson's Disease**

Yilin Liu; Advisor: Hoi-Chung Leung, *Department of Psychology*

**Neural Response and Recall of Social Feedback**

Micaela Rodriguez; Advisor: Brady Nelson, *Department of Psychology*

\*POSTER PRESENTATIONS, **See Posters/Exhibits # 179-194** in SAC Ballroom A

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**WRITING & RHETORIC PROGRAM CONFERENCE**  
*Student Activities Center, Room 303*

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Student Presentations (11:45-3:15)

**The Fluidity of Perceived Time (11:45-12:00)**

Uma Kanth; Advisor: Robert Kaplan, *Program in Writing & Rhetoric*

**No, You Can't Buy Out NASA (12:00-12:15)**

Samuel Tan; Advisor: Patrizia Benolich, *Program in Writing & Rhetoric*

**Artificial Meat: Would You Bite? (12:15-12:30)**

Zenab Elzamzamy; Advisor: Patrizia Benolich, *Program in Writing & Rhetoric*

**Man's Modern Day Gift of Fire (12:30-12:45)**

Kevin Chen; Advisor: Patrizia Benolich, *Program in Writing & Rhetoric*

**Build-A-Baby (12:45-1:00)**

Riah Sharma; Advisor: Patrizia Benolich, *Program in Writing & Rhetoric*

**I Want My Mummy!: Rewrapping the History of Egyptian Artifacts (1:00-1:15)**

Luigia Than; Advisor: Ryan Calvey, *Program in Writing & Rhetoric*

1:15 – BREAK

**Loading... (1:30-1:45)**

Christopher Zieris; Advisor: Patrizia Benolich, *Program in Writing & Rhetoric*

**Applying Professional Communication in the Job Application (1:45-2:00)**

Taylor Esposito; Advisor: Cynthia Davidson, *Program in Writing & Rhetoric*

**Life and Death and the Ocean Depths (2:00-2:15)**

Robert Burmeister; Advisor: Robert Kaplan, *Program in Writing & Rhetoric*

**Review of Diabetes Mellitus Prevalence of African Americans age 45+ and its causes (2:15-2:30)**

Nim Tse; Advisor: Robert Kaplan, *Program in Writing & Rhetoric*

**A.I.pocalypse (2:30-2:45)**

Wendy Wu; Advisor: Patrizia Benolich, *Program in Writing & Rhetoric*

**Rape Prevention Programs: Single-Gender or Mixed-Gender? (2:45-3:00)**

Nicole Olakkengil; Advisor: Robert Kaplan, *Program in Writing & Rhetoric*

**Diamonds Are a Girl's Worst Friend (3:00-3:15)**

Emily Dupuis; Advisor: Ryan Calvey, *Program in Writing & Rhetoric*



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**ENGINEERING SENIOR DESIGN PRESENTATIONS**  
*Student Activities Center, SAC Auditorium*

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Student Presentations (9:00-11:00)

*MECHANICAL ENGINEERING (9:00-9:15)*

**Integrating an Active Stability and Altitude Control Unit with the Structural and Propulsion Elements of a High-Powered Rocket**

Yongxin Guo, Nicholas Lamberson, Christos Liopyros

Advisors: Sotirios Mamalis, Jay Mendelson, *Department of Mechanical Engineering*

**Design of a Recovery and Navigation System for High-Powered Rocket / NASA**

John Gandolfo, Brayan Ruiz Arias, John Park

Advisors: Sotirios Mamalis, Jay Mendelson, *Department of Mechanical Engineering*

**Automatically Deploying UAV Payload for Level 2 High Power Rocket**

Jae Hyeon An, Jun (Albert) Yang, Yuki Yoshinata

Advisor: Nilanjan Chakraborty, *Department of Mechanical Engineering*

*CIVIL ENGINEERING (9:15-9:30)*

**Brooklyn Multi-Story Residential Building.**

Yanicel Fragoso Ramirez, Joseph Lubrano, Erluk Rodrigues, Alassane Thera, Anastasiya Suratova

Advisor: Frank Russo, *NYS Center for Clean Water Technology, Department of Civil Engineering*

*BIOMEDICAL ENGINEERING (9:30-9:45)*

**Orthodontic Vibration Systems (9:30-9:45)**

Preksha Dheri, Vybhav Murthy, Anurekha Ravikumar, Timothy Jack Tan, Eugene Zaverukha

Advisor: Stefan Judex, *Department of Biomedical Engineering*

*ELECTRICAL & COMPUTER ENGINEERING (9:45-10:00)*

**Zero Emission Electric Motorcycle (ZEM1)**

Avishai Cohen, James Haggerty, Brendan Zotto

Advisors: David Westerfeld, *Department of Electrical & Computer Engineering*; Ben Lawler, *Department of Mechanical Engineering*

**Development and Design of a Lightweight Hardware Security Method to Protect Digital Circuits from Power-Based Side-Channel Attacks**

William Lee, Bryan Moy, Nicholas St. John

Advisor: Emre Salman, *Department of Electrical & Computer Engineering*

*CHEMICAL & MOLECULAR ENGINEERING (10:00-10:15)*

**Environmentally Benign Charcoal Production from Waste Wood for Cooking**

Antonio Franciosa, Chongguang Jin, Jacky Liu, Jaekuang Lee, Man Ho Ma

Advisor: Devinder Mahajan, *Department of Materials Science & Chemical Engineering*